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BULLETIN OF
WASHINGTON
UNIVERSITY

SAINT LOUIS



MISSOURI

THE SCHOOL OF MEDICINE

MAY 15, 1950

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Charles Belknap, B.S., *Vice-Chancellor*

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Director of Business Administration

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Lawrence E. Stout, Ph.D., Ch.E., Dean

The School of Architecture

Joseph D. Murphy, Dean

The School of Business and Public Administration

Leslie J. Buchan, Ph.D., Dean

The George Warren Brown School of Social Work

Benjamin E. Youngdahl, A.M., Dean

The Henry Shaw School of Botany

Henry N. Andrews, Jr., Ph.D., Dean

The Graduate School of Arts and Sciences

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

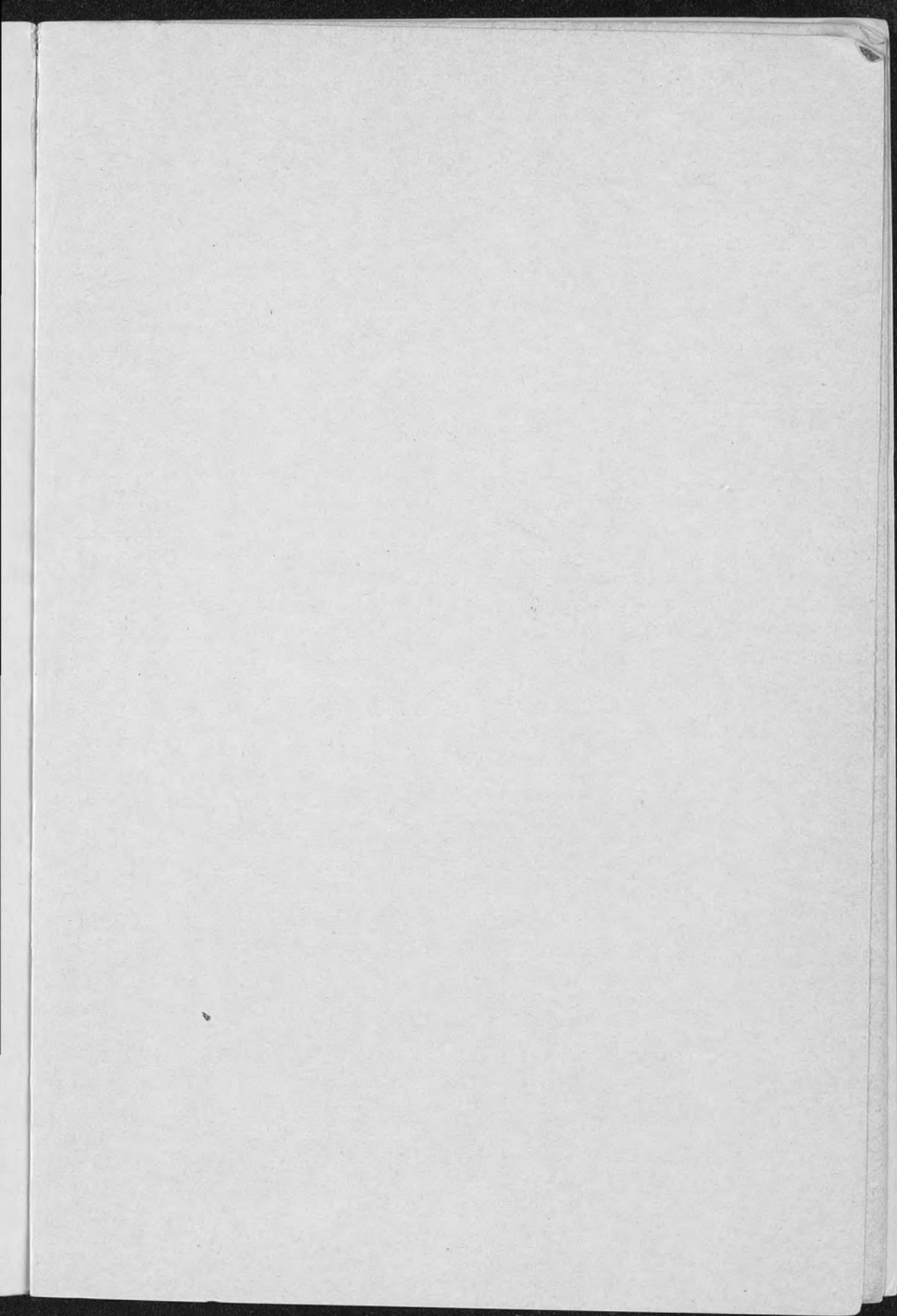
Willis H. Reals, Ph.D., Dean

The Summer School

Frank L. Wright, A.M., Ed.D., Director

The Henry Edwin Sever Institute of Technology

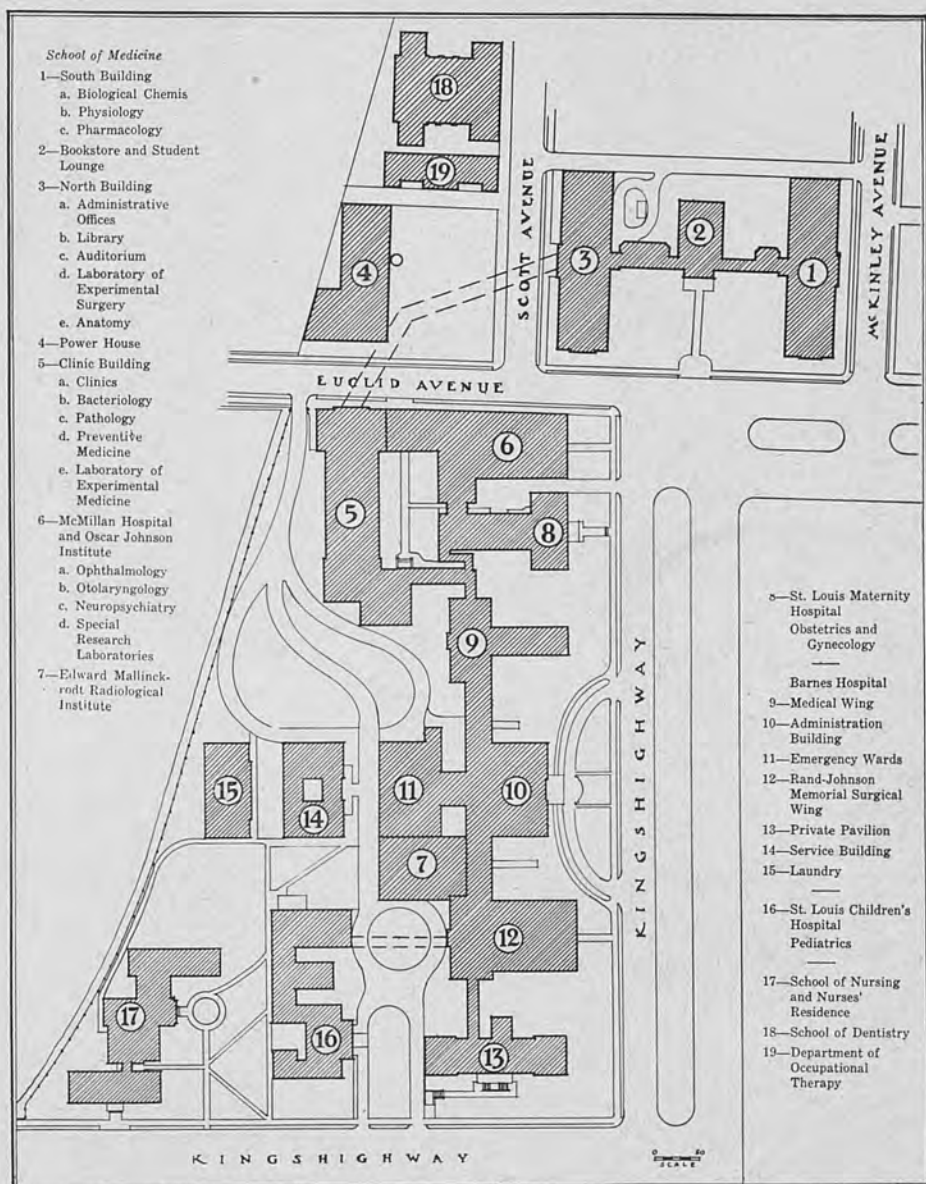
Lawrence E. Stout, Ph.D., Ch.E., **Director**



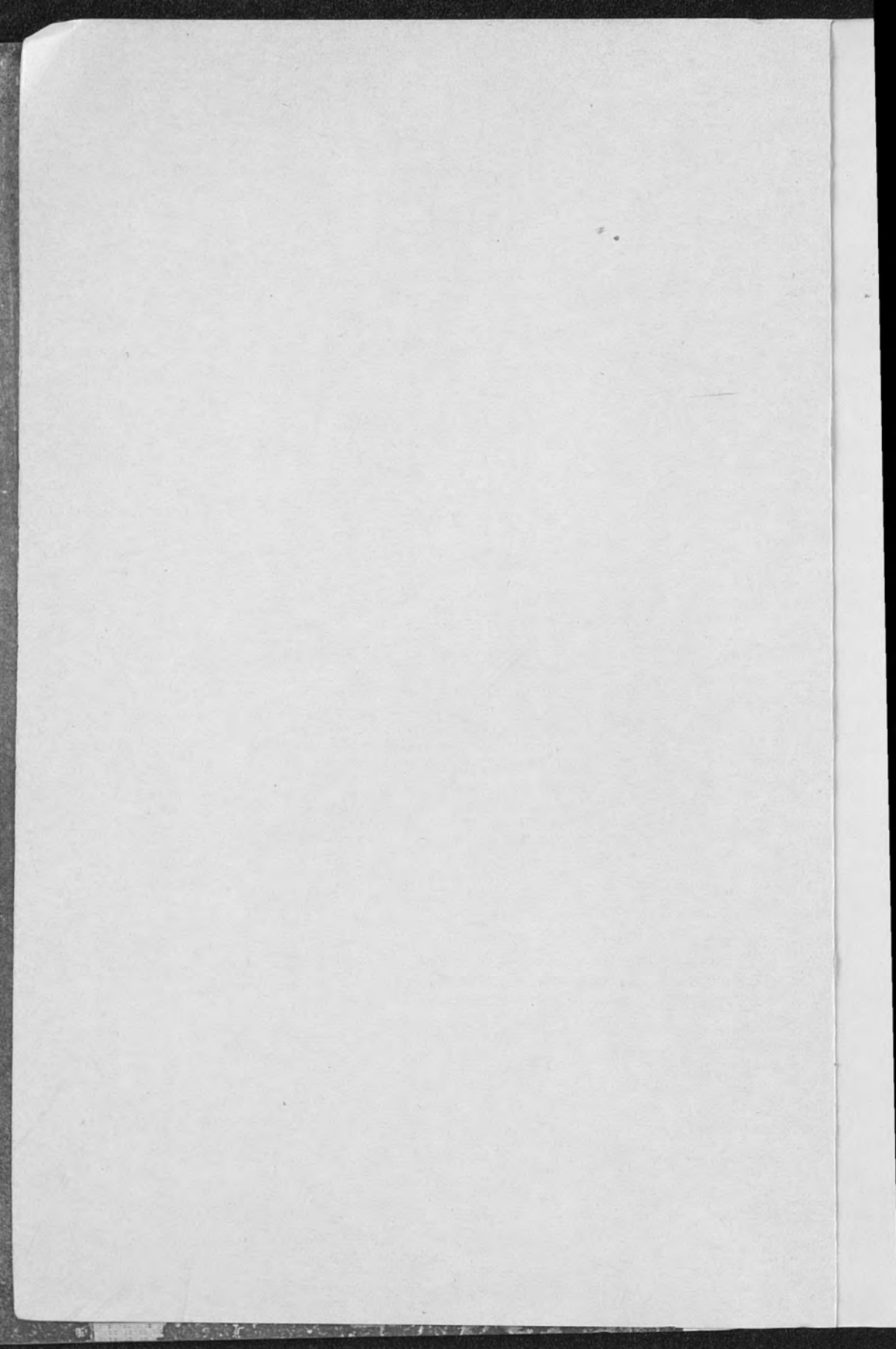


WASHINGTON UNIVERSITY MEDICAL CENTER

"Papin Aerial Survey," St. Louis



Block Plan of Washington University
Medical Group and School of Dentistry



BULLETIN
of
WASHINGTON UNIVERSITY
SAINT LOUIS



SCHOOL OF MEDICINE

MAY 15, 1950

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SERIES II VOLUME XLVIII NUMBER X

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CALENDAR

1950

JANUARY							FEBRUARY							MARCH							APRIL							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
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1951

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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MAY							JUNE							JULY							AUGUST						
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SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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CALENDAR

1949-50

Registration for second half year, Monday, January 30, 1950.
Holiday, Washington's Birthday, Wednesday, February 22, 1950.
Third Trimester begins Monday, March 13, 1950; ends Saturday, June 3, 1950.
Holidays, Good Friday, April 7, and Saturday, April 8, 1950.
Holiday, Decoration Day, Tuesday, May 30, 1950.
Commencement, Tuesday, June 6, 1950.

1950-51

Registration for all new students, Wednesday, September 6, 1950.
Physical examinations for all former students, Friday, September 8, 1950.
Registration for all former students, Saturday, September 9, 1950.
Examinations for Advanced Standing and Removal of Conditions, Wednesday, September 6, and Thursday, September 7, 1950.
Academic year (First Trimester) begins Monday, September 11, 1950; ends Saturday, December 2, 1950.
Holiday, Thanksgiving Day, Thursday, November 23, 1950.
Second Trimester begins Monday, December 4, 1950; ends Saturday, March 10, 1951.
Christmas Recess, Thursday, December 21, 1950, through Wednesday, January 3, 1951.
Registration for second half year, Monday, January 29, 1951.
Holiday, Washington's Birthday, Thursday, February 22, 1951.
Third Trimester begins Monday, March 12, 1951; ends Saturday, June 2, 1951.
Holidays, Good Friday, March 23 and Saturday, March 24, 1951.
Holiday, Decoration Day, Wednesday, May 30, 1951.
Final examinations for first, second, and third classes begin Monday, June 4, 1951.
Commencement, Tuesday, June 5, 1951.

THE CORPORATION

President

HARRY BROOKINGS WALLACE

First Vice-President

DANIEL KAYSER CATLIN

Second Vice-President

ETHAN ALLEN HITCHCOCK SHEPLEY

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CLIFFORD WILLARD GAYLORD	ALEXANDER WESSEL SHAPLEIGH
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JOHN STARK LEHMANN	HARRY BROOKINGS WALLACE
HOWARD ISAAC YOUNG	

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Treasurer and Secretary of the Corporation

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Office in Robert S. Brookings Hall
Skinker and Lindell Boulevards
Saint Louis 5, Missouri

OFFICERS OF THE UNIVERSITY ADMINISTRATION

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Office, 224 Brookings Hall

Vice-Chancellor:

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Dean of Faculties:

Edward Kidder Graham, Ph.D.....Office, 223 Brookings Hall

Director of Business Administration:

Thomas Edward Blackwell, Ph.B., M.S., J.D.

Office, 225 Brookings Hall

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Secretary of the University:

Oliver Filley Richards, B.S.....Office, 230 Brookings Hall

Director of Public Relations:

Douglas Vass Martin, Jr., A.B.....Office, 218 Brookings Hall

Executive Secretary of the Alumni Office:

Fredric George Kettelkamp, A.B.....Office, 219 Brookings Hall

Director of the Placement Bureau:

Priscilla Alden Settle.....Office, 100 Ridgley Library

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Edward Kidder Graham, Ph.D.....Office, 223 Brookings Hall

Librarian:

Jerrold Orne, Ph.D.....Office, Ridgley Library

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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, 113 Brookings Hall

Superintendent, Buildings and Grounds:

Donald Morrison.....Office, 115 Brookings Hall

Manager of Dormitories and Dining Rooms:

Rose FallensteinOffice, Lee Hall Cafeteria

OFFICERS OF GOVERNMENT AND INSTRUCTION OF THE SCHOOL OF MEDICINE¹

- Robert Allan Moore.....*Dean*
B.A., Ohio State University, 1921; M.S., 1927; M.D., 1928; Ph.D., Western Reserve University, 1930.
- Samuel Bukantz.....*Assistant Dean*
B.S., New York University, 1930; M.D., 1934.
- Thomas Harrison Hunter.....*Assistant Dean in Charge of Students*
A.B., Harvard University, 1935; B.A., Cambridge University (England), 1937; M.D., Harvard University, 1940.
- Robert Irving Watson.....*Assistant Dean*
A.B., Dana College, 1933; A.M., Columbia University, 1935; Ph.D., 1938.
- William Bahlmann Parker.....*Registrar*
A.B., University of Missouri, 1921.

EMERITI

- Vilray Papin Blair.....*Professor Emeritus of Clinical Surgery*
A.M., Christian Brothers College, 1890; M.D., Washington University, 1893.
- 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.
- Joseph Erlanger.....*Professor Emeritus of Physiology*
B.S., University of California, 1895; M.D., Johns Hopkins University, 1899; LL.D., University of California, 1932; Sc.D., University of Pennsylvania, 1936; Sc.D., University of Wisconsin, 1936; Sc.D., University of Michigan, 1937; Sc.D., Washington University, 1946; LL.D., Johns Hopkins University, 1947; Dr. (Hon.) Free University of Brussels, 1949.
- Leo Loeb.....*Professor Emeritus of Pathology*
M.D., University of Zurich, 1896.
- Harry Webster Lyman.....*Professor Emeritus of Clinical Otolaryngology*
M.D., St. Louis College of Physicians and Surgeons, 1895.
- Sherwood Moore.....*Professor Emeritus of Radiology*
M.D., Washington University, 1905.
- Grandison Delaney Royston.....*Professor Emeritus of Clinical Obstetrics
and Gynecology*
M.D., Washington University, 1907.

¹ Appointments as of July 1, 1950.

- Ernest Sachs.....*Professor Emeritus of Clinical Neurological Surgery*
A.B., Harvard University, 1900; M.D., Johns Hopkins University, 1904.
- Major Gabriel Seelig.....*Professor Emeritus of Clinical Surgery*
A.B., Harvard University, 1896; M.D., Columbia University, 1900.
- William Ewing Shahan.....*Professor Emeritus of Clinical Ophthalmology*
A.B., Washington University, 1901; M.D., 1904; A.M., 1912.
- Robert James Terry.....*Professor Emeritus of Anatomy*
M.D., Missouri Medical College, 1895; A.B., Washington University, 1901.
- Meyer Wiener.....*Professor Emeritus of Clinical Ophthalmology*
M.D., Missouri Medical College, 1896.
- Adrien Bleyer.....*Associate Professor Emeritus of Clinical Pediatrics*
M.D., Missouri Medical College, 1899.
- Warren Philo Elmer.....*Associate Professor Emeritus of
Clinical Medicine*
M.D., University of Michigan, 1903; B.S., St. Louis University, 1906.
- Walter Fischel.....*Associate Professor Emeritus of Clinical Medicine*
A.B., Harvard University, 1902; M.D., Washington University, 1905.
- Drew William Luten.....*Associate Professor Emeritus of Clinical Medicine*
A.B., University of Kentucky, 1901; M.D., Johns Hopkins University, 1911.
- Earl H. Perry.....*Associate Professor Emeritus of Military Science
and Tactics*
M.D., University of Pennsylvania (MC), 1903.
- Llewellyn Sale.....*Associate Professor Emeritus of Clinical Medicine*
M.D., Washington University, 1907.
- Frederick Eno Woodruff.....*Associate Professor Emeritus of Clinical
Ophthalmology*
M.D., Missouri Medical College, 1897; A.B., Washington University, 1923.
- Adolph George Schlossstein.....*Assistant Professor Emeritus of Clinical
Obstetrics and Gynecology*
M.D., St. Louis Medical College, 1894.
- Geraldine Lermitt.....*Lecturer Emeritus in Occupational Therapy*
A.B., Wellesley College, 1906; Ph.M., University of Chicago, 1907.
- Thomas B. Pote.....*Lecturer Emeritus in Pathology*
D.V.S., McGill University, 1892; M.D., Washington University, 1902.

PROFESSORS

- Harry Louis Alexander.....*Professor of Clinical Medicine*
A.B., Williams College, 1910; M.D., Columbia University, 1914.
- 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., Hobart College, 1940.

- George Holman Bishop.....*Professor of Neurophysiology*
A.B., University of Michigan, 1912; Ph.D., University of Wisconsin, 1920.
- Frank Richard Bradley.....*Professor of Hospital Administration and
Director of the Department of Hospital Administration*
M.D., Washington University, 1928.
- Jacques Jacob Bronfenbrenner.....*Professor of Bacteriology and
Immunology and Head of the Department*
Ph.D., Columbia University, 1912; Dr.P.H., Harvard University, 1919.
- James Barrett Brown.....*Professor of Clinical Surgery*
M.D., Washington University, 1923.
- T. K. Brown.....*Professor of Clinical Obstetrics and Gynecology*
B.S., University of Wisconsin, 1921; M.S., 1922; M.D., Washington University,
1924.
- Jean Valjean Cooke.....*Professor of Pediatrics*
A.B., West Virginia University, 1903; A.B., Yale University, 1904; M.D., Johns
Hopkins University, 1908.
- Carl F. Cori.....*Professor of Biological Chemistry and Head
of the Department*
M.D., University of Prague, 1920; Sc.D., Yale University, 1946; Sc.D., Western
Reserve University, 1946; Sc.D., Boston University, 1948; Sc.D., Cambridge
University (England), 1949.
- Gerty T. Cori.....*Professor of Biological Chemistry*
M.D., University of Prague, 1920; Sc.D., Boston University, 1948; Sc.D., Smith
College, 1949.
- Edmund Vincent Cowdry.....*Research Professor of Anatomy*
B.A., University of Toronto, 1909; Ph.D., University of Chicago, 1912.
- Hallowell Davis.....*Research Professor of Otolaryngology and
Professor of Physiology*
A.B., Harvard University, 1918; M.D., 1922.
- Edward Wheeler Dempsey.....*Professor of Anatomy and
Head of the Department*
A.B., Marietta College, 1932; Sc.M., Brown University, 1934; Ph.D., 1937; M.A.
(hon.), Harvard University, 1946.
- Robert Elman.....*Professor of Clinical Surgery*
B.S., Harvard University, 1919; M.D., Johns Hopkins University, 1922.
- Edwin Francis Gildea.....*Wallace Renard Professor of Psychiatry and
Head of the Department of Neuropsychiatry*
A.B., Colorado College, 1920; M.D., Harvard University, 1924.
- 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, 1929; Sc.D., Western Reserve
University, 1931; Sc.D., University of Pennsylvania, 1940; Sc.D., University of
Chicago, 1941; F.R.C.S. (hon.), 1943; Sc.D., McGill University, 1944.

- Alexis Frank Hartmann.....*Professor of Pediatrics and Head of the Department*
B.S., Washington University, 1919; M.S., 1921; M.D., 1921.
- Peter Heinbecker.....*Professor of Clinical Surgery*
B.A., McGill University, 1918; M.D., 1921.
- Arthur Llewelyn Hughes.....*Consulting Physicist*
B.Sc., Liverpool University, 1906; M.Sc., 1907; B.A., Cambridge University, 1910; D.Sc., 1912.
- John Albert Key.....*Professor of Clinical Orthopedic Surgery*
M.D., Johns Hopkins University, 1918.
- Virgil Loeb.....*Lecturer in Stomatology*
A.B., University of Missouri, 1903; M.D., St. Louis University, 1906; D.D.S., 1906.
- Oliver Howe Lowry.....*Professor of Pharmacology and Head of the Department*
B.S., Northwestern University, 1932; Ph.D., University of Chicago, 1937; M.D., Rush Medical College, 1937.
- Carl Vernon Moore.....*Professor of Medicine*
A.B., Washington University, 1928; M.D., 1932.
- 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.
- James Lee O'Leary.....*Professor of Neurology*
B.S., University of Chicago, 1921; Ph.D., 1928; M.D., 1931.
- Lawrence Tyler Post.....*Professor of Clinical Ophthalmology and Head of the Department*
A.B., Yale University, 1909; M.D., Johns Hopkins University, 1913.
- Martin Hayward Post.....*Professor of Clinical Ophthalmology*
A.B., Amherst College, 1908; M.D., Johns Hopkins University, 1912.
- 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.
- Henry Gerard Schwartz.....*Professor of Neurological Surgery*
A.B., Princeton University, 1928; M.D., Johns Hopkins University, 1932.
- Otto Henry Schwarz.....*Professor of Obstetrics and Gynecology*
M.D., Washington University, 1913.
- 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.
- Robert Ely Shank.....*Professor of Preventive Medicine, Professor of Preventive Medicine in Medicine, and Head of the Department of Preventive Medicine and Public Health*
A.B., Westminster College, 1935; M.D., Washington University, 1939.

- Sol Richard Silverman.....*Professor of Audiology*
A.B., Cornell University, 1933; M.S., Washington University, 1938; Ph.D., 1942.
- Mildred Trotter.....*Professor of Gross Anatomy and Consultant in*
Anatomy to the Department of Radiology
A.B., Mount Holyoke College, 1920; M.S., Washington University, 1921; Ph.D., 1924.
- Borden Smith Veeder.....*Professor of Clinical Pediatrics*
M.D., University of Pennsylvania, 1907.
- Theodore Edwin Walsh.....*Professor of Otolaryngology and Head of*
the Department
B.A., Cambridge University, 1921; M.R.C.S., L.R.C.P., London, 1925.
- Richard Simon Weiss.....*Professor of Clinical Dermatology and*
Head of the Section of Dermatology
M.D., Washington University, 1909.
- Harvey Lester White.....*Professor of Physiology and*
Head of the Department
B.S., Washington University, 1918; M.D., 1920.
- Hugh Monroe Wilson.....*Professor of Radiology and*
Head of the Department
B.A., Illinois College, 1924; M.D., Washington University, 1927; M.A. (hon.), Yale University, 1945.
- William Barry Wood, Jr.....*Busch Professor of Medicine and Head*
of the Department
A.B., Harvard University, 1932; M.D., Johns Hopkins University, 1936.

ASSOCIATE PROFESSORS

- Lauren Vedder Ackerman.....*Associate Professor of Pathology*
and of Surgical Pathology
A.B., Hamilton College, 1927; M.D., University of Rochester, 1932.
- Arthur Maxwell Alden.....*Associate Professor of Clinical Otolaryngology*
A.B., University of Oklahoma, 1907; A.M., 1909; M.D., St. Louis University, 1915.
- Bennett Young Alvis.....*Associate Professor of Clinical Ophthalmology*
B.S., St. Louis University, 1916; M.D., 1918.
- A. Norman Arneson.....*Associate Professor of Clinical Radiology and*
of Clinical Obstetrics and Gynecology
B.S., Texas Christian University, 1924; M.D., Washington University, 1928.
- Eugene Myron Bricker.....*Associate Professor of Clinical Surgery*
M.D., Washington University, 1934.
- Thomas Hannahan Burford.....*Associate Professor of Surgery*
A.B., University of Missouri, 1931; B.S., 1933; M.D., Yale University, 1936.
- Cecil Marvin Charles.....*Associate Professor of Anatomy and*
Instructor in Clinical Medicine
A.B., University of Kentucky, 1926; A.M., 1927; Ph.D., Washington University, 1929; M.D., 1933.

- Glover H. Copher.....*Associate Professor of Clinical Surgery*
A.B., University of Missouri, 1916; M.D., Washington University, 1918.
- Justin Joseph Cordonnier.....*Associate Professor of Clinical*
Genitourinary Surgery
B.S., Washington University, 1926; M.D., 1928.
- James Bray Costen.....*Associate Professor of Clinical Otolaryngology*
A.B., University of Arkansas, 1916; M.D., Washington University, 1922.
- 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.
- Gustave John Dammin.....*Associate Professor of Medicine and*
of Pathology
A.B., Cornell University, 1934; M.D., 1938.
- Gilbert Burnett Forbes.....*Associate Professor of Pediatrics*
A.B., University of Rochester, 1936; M.D., 1940.
- Leonard Thompson Furlow.....*Associate Professor of Clinical*
Neurological Surgery
B.S., Emory University, 1923; M.D., 1925.
- Arthur Scott Gilson, Jr.....*Associate Professor of Physiology*
B.S., Dartmouth College, 1919; A.M., Harvard University, 1922; Ph.D., 1924.
- Alfred Goldman.....*Associate Professor of Clinical Medicine*
A.B., Washington University, 1916; M.D., 1920.
- Helen Tredway Graham.....*Associate Professor of Pharmacology*
A.B., Bryn Mawr College, 1911; A.M., 1912; Ph.D., University of Chicago, 1915.
- French Keller Hansel.....*Associate Professor of Clinical Otolaryngology*
M.D., St. Louis University, 1918; M.S., University of Minnesota, 1923.
- Carl Gayler Harford.....*Associate Professor of Medicine*
A.B., Amherst College, 1928; M.D., Washington University, 1933.
- Jules Henry.....*Associate Professor of Anthropology in the*
Department of Neuropsychiatry
B.S., College of the City of New York, 1928; Ph.D., Columbia University, 1935.
- John E. Hobbs.....*Associate Professor of Clinical Obstetrics*
and Gynecology
A.B., Southwest Missouri State Teachers' College, 1923; M.D., Washington University, 1927.
- Martin Kamen.....*Associate Professor of Radiochemistry*
B.S., University of Chicago, 1930; Ph.D., 1936.
- Isaac Dee Kelley, Jr.....*Associate Professor of Clinical Otolaryngology*
B.S., St. Louis University, 1903; M.D., 1908.
- John Esben Kirk.....*Associate Professor of Medicine and Director of*
Research in the Division of Gerontology
M.A.M.S., University of Copenhagen, 1923; M.Phil., 1924; M.D., 1936.

- William Edward Koch, Jr.....*Associate Professor of Clinical Radiodentics*
D.D.S., Washington University, 1934.
- Maurice Edward Krahle.....*Associate Professor of Biological Chemistry*
A.B., De Pauw University, 1929; Ph.D., Johns Hopkins University, 1932.
- Albert Ingram Lansing.....*Associate Professor of Anatomy*
A.B., University of Pennsylvania, 1937; Ph.D., Indiana University, 1941.
- Joseph William Larimore.....*Associate Professor of Clinical Medicine*
A.B., De Pauw University, 1908; M.D., Washington University, 1913.
- Cyril Mitchell MacBryde.....*Associate Professor of Clinical Medicine*
A.B., Washington University, 1926; M.D., Harvard University, 1930.
- William Harwood Olmsted.....*Associate Professor of Clinical Medicine*
B.S., Coe College, 1909; M.D., Johns Hopkins University, 1913.
- Edward Humphrey Reinhard.....*Associate Professor of Medicine and of Radiology*
A.B., Washington University, 1935; M.D., 1939.
- Saul Rosenzweig.....*Associate Professor of Medical Psychology*
A.B., Harvard University, 1929; M.A., 1930; Ph.D., 1932.
- George Saslow.....*Associate Professor of Psychiatry*
B.S., New York University, 1926; Ph.D., 1931; M.D., Harvard University, 1940.
- Henry Alfred Schroeder.....*Associate Professor of Medicine*
A.B., Yale University, 1929; M.D., Columbia University, 1933.
- Frederick Oscar Schwartz.....*Associate Professor of Clinical Ophthalmology*
M.D., Washington University, 1910.
- Wendell Garrison Scott.....*Associate Professor of Clinical Radiology*
A.B., University of Colorado, 1928; M.D., Washington University, 1932.
- John Russell Smith.....*Associate Professor of Medicine*
A.B., University of Wisconsin, 1931; A.M., 1932; M.D., Washington University, 1934.
- Margaret Gladys Smith.....*Associate Professor of Pathology*
A.B., Mount Holyoke College, 1918; M.D., Johns Hopkins University, 1922.
- Robert Irving Watson.....*Associate Professor of Medical Psychology*
A.B., Dana College, 1933; A.M., Columbia University, 1935; Ph.D., 1938.

ASSISTANT PROFESSORS

- Samuel J. Ajl.....*Assistant Professor of Bacteriology and Immunology*
B.A., Brooklyn College, 1945; Ph.D., Iowa State College, 1949.
- Duff Shedric Allen.....*Assistant Professor of Clinical Surgery*
M.D., Washington University, 1919.
- Millard Fillmore Arbuckle.....*Assistant Professor of Clinical Otolaryngology*
M.D., Washington University, 1909.

- Robert Wilson Bartlett.....*Assistant Professor of Clinical Surgery*
B.S., University of Michigan, 1926; M.D., 1930.
- Carl Conrad Beisbarth.....*Assistant Professor of Clinical Ophthalmology*
B.S., St. Louis University, 1924; M.D., 1926.
- Ethel Ronzoni Bishop.....*Assistant Professor of Biological Chemistry*
in Neuropsychiatry
B.S., Mills College, 1913; A.M., Columbia University, 1914; Ph.D., University of Wisconsin, 1922.
- Leon Bromberg.....*Assistant Professor of Clinical Medicine*
A.B., Rice Institute, 1920; M.D., Vanderbilt University, 1924.
- Arthur Charles Brooks.....*Assistant Professor of Clinical Medicine*
B.S., Washington University, 1917; M.D., 1919.
- Samuel Bukantz.....*Assistant Professor of Medicine*
B.S., New York University, 1930; M.D., 1934.
- Harold Aten Bulger.....*Assistant Professor of Clinical Medicine*
B.S., Ohio State University, 1916; M.D., Harvard University, 1920.
- Louis T. Byars.....*Assistant Professor of Clinical Surgery*
B.S., University of Arkansas, 1928; M.D., Washington University, 1932.
- Archie Dreyfus Carr.....*Assistant Professor of Clinical Neurology*
B.S., Washington University, 1918; M.D., 1921.
- Alfred J. Cone.....*Assistant Professor of Clinical Otolaryngology*
B.S., State University of Iowa, 1921; M.D., 1923; M.S., 1926.
- Adolph Henry Conrad.....*Assistant Professor of Clinical Dermatology*
M.D., St. Louis University, 1906.
- Jerome Epstein Cook.....*Assistant Professor of Clinical Medicine*
M.D., Washington University, 1905.
- Zola K. Cooper.....*Assistant Professor of Pathology*
A.B., Washington University, 1925; M.S., 1926; Ph.D., 1929.
- Clarence Harrison Crego, Jr.....*Assistant Professor of Clinical*
Orthopedic Surgery
B.S., Union University, 1921; M.D., University of Michigan, 1923.
- Robert James Crossen.....*Assistant Professor of Clinical Obstetrics*
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- Rogers Deakin.....*Assistant Professor of Clinical Genitourinary Surgery*
M.D., Washington University, 1922.
- Frank J. Dixon, Jr.....*Assistant Professor of Pathology*
B.S., University of Minnesota, 1941; M.B., 1943; M.D., 1944.
- Herbert R. Domke.....*Assistant Professor of Public Health*
B.S., University of Chicago, 1939; M.D., 1942; M.P.H., Harvard University, 1948.
- Charles William Duden.....*Assistant Professor of Clinical Medicine*
M.D., Washington University, 1926.

- Charles Leonard Eckert.....*Assistant Professor of Clinical Surgery*
M.D., Washington University, 1939.
- Charles Hermann Eyermann.....*Assistant Professor of Clinical Medicine*
M.D., St. Louis University, 1911.
- Hyman Herschel Fingert.....*Assistant Professor of Clinical Psychiatry*
B.A., State University of Iowa, 1931; M.D., 1934.
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- Robert F. Furchgott.....*Assistant Professor of Pharmacology*
B.S., University of North Carolina, 1937; Ph.D., Northwestern University, 1940.
- Margaret Crane-Lillie Gildea.....*Assistant Professor of Clinical Psychiatry*
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- Joseph Gitt.....*Assistant Professor of Clinical Neurology*
M.D., Washington University, 1930.
- Robert Joy Glaser.....*Assistant Professor of Medicine*
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- Harry Naylor Glick.....*Assistant Professor of Clinical Otolaryngology*
A.B., Cornell University, 1916; M.D., St. Louis University, 1922.
- David Goldring.....*Assistant Professor of Pediatrics*
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- Leo Gottlieb.....*Assistant Professor of Clinical Medicine*
A.B., University of Kansas, 1928; A.M., 1932; M.D., Washington University, 1932.
- Samuel Becker Grant.....*Assistant Professor of Clinical Medicine*
B.S., Washington University, 1918; M.D., 1920.
- Paul Oonk Hagemann.....*Assistant Professor of Clinical Medicine*
A.B., Washington University, 1930; M.D., 1934.
- Howard Rommel Hildreth.....*Assistant Professor of Clinical Ophthalmology*
M.D., Washington University, 1928.
- Francis Edmund Hunter.....*Assistant Professor of Pharmacology*
B.S., Mount Union College, 1938; Ph.D., University of Rochester, 1941.
- Thomas Harrison Hunter.....*Assistant Professor of Medicine*
A.B., Harvard University, 1935; B.A., Cambridge University (England), 1937; M.D., Harvard University, 1940.
- William Mahlon James.....*Assistant Professor of Clinical Ophthalmology*
B.S., Drury College, 1923; M.D., Washington University, 1926.
- Joseph Cabell Jaudon.....*Assistant Professor of Clinical Pediatrics*
A.B., Washington University, 1926; M.D., 1933.
- Andrew Blucher Jones.....*Assistant Professor of Clinical Neurology*
M.D., Vanderbilt University, 1916.
- Frederick Augustus Jostes.....*Assistant Professor of Clinical Orthopedic Surgery*
B.S., Washington University, 1918; M.D., 1920.

- Bruce Delozier Kenamore.....*Assistant Professor of Clinical Medicine*
A.B., Washington University, 1933; M.D., 1935.
- George David Kettelkamp.....*Assistant Professor of Clinical Medicine*
A.B., Central Wesleyan College, 1910; M.D., Washington University, 1914.
- William Bryan Kountz.....*Assistant Professor of Clinical Medicine*
M.D., Washington University, 1926.
- Otto St. Clair Krebs.....*Assistant Professor of Clinical Obstetrics and
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B.S., Washington University, 1917; M.D., 1919.
- Clinton Welsh Lane.....*Assistant Professor of Clinical Dermatology*
A.B., St. Mary's College (Kansas), 1916; M.D., St. Louis University, 1921.
- Adolph Charles Lange.....*Assistant Professor of Clinical Ophthalmology*
B.S., Washington University, 1928; M.D., 1930.
- John Vincent Lawrence.....*Assistant Professor of Clinical Medicine*
B.S., University of Chicago, 1917; M.D., Rush Medical College, 1924.
- Irwin Levy.....*Assistant Professor of Clinical Neurology*
A.B., Cornell University, 1927; M.D., St. Louis University, 1931; Med.Sci.D.,
Columbia University, 1935.
- Ruth Elizabeth Martin.....*Dentist to the Department of Pediatrics*
D.D.S., Washington University, 1923.
- Edward Massie.....*Assistant Professor of Clinical Medicine*
A.B., Washington University, 1931; M.D., 1935.
- William H. Masters.....*Assistant Professor of Obstetrics and Gynecology*
B.S., Hamilton College, 1938; M.D., University of Rochester, 1943.
- Sydney Brown Maughs.....*Assistant Professor of Clinical Psychiatry*
A.B., Westminster College, 1931; M.D., Washington University, 1935.
- H. Relton McCarroll.....*Assistant Professor of Clinical Orthopedic
Surgery*
A.B., Ouachita College, 1927; M.D., Washington University, 1931.
- Frank McDowell.....*Assistant Professor of Clinical Surgery*
A.B., Drury College, 1932; M.D., Washington University, 1936.
- Frank Powell McNalley.....*Assistant Professor of Clinical Obstetrics
and Gynecology*
B.S., Washington University, 1915; M.D., 1917.
- Sedgwick Mead.....*Assistant Professor of Physical Medicine and
Assistant Professor of Physical Medicine in Medicine*
B.S., Harvard University, 1934; M.D., 1938.
- Albert I. Mendeloff.....*Assistant Professor of Preventive Medicine and
of Medicine, and Physician to Students of the Medical Center*
B.S., Princeton University, 1938; M.D., Harvard University, 1942; M.P.H., 1944.
- Ivan Norman Mensh.....*Assistant Professor of Medical Psychology*
A.B., George Washington University, 1940; A.M., 1942; Ph.D., Northwestern
University, 1948.

- Hans Barso Molholm.....*Assistant Professor of Clinical Psychiatry*
A.B., Harvard University, 1926; M.D., 1931.
- Morris Moore.....*Assistant Professor of Mycology*
B.S., Boston University, 1928; A.M., Harvard University, 1929; Ph.D., Washington University, 1933.
- Richard T. Odell.....*Assistant Professor of Orthopedic Surgery*
A.B., Westminster College, 1935; B.S. in Med., University of Missouri, 1941; M.D., Washington University, 1943.
- Charles Darrell O'Keefe.....*Assistant Professor of Clinical Obstetrics and Gynecology*
A.B., University of Missouri, 1916; M.D., Washington University, 1918.
- Richard Paddock.....*Assistant Professor of Clinical Obstetrics and Gynecology*
M.D., Washington University, 1921.
- Ernest Holden Parsons.....*Assistant Professor of Clinical Psychiatry*
B.A., Vanderbilt University, 1927; M.D., 1930.
- John Franklin Patton.....*Assistant Professor of Clinical Genitourinary Surgery*
M.D., Washington University, 1928.
- Vernon I. Pettit.....*Assistant Professor of Military Science and Tactics and U. S. Army Fellow in Pathology*
B.S., Southwestern College, 1935; M.D., University of Tennessee, 1939.
- Paul William Preisler.....*Assistant Professor of Biological Chemistry*
B.S., Washington University, 1923; M.S., 1925; Ph.D., 1927.
- J. G. Probststein.....*Assistant Professor of Clinical Surgery*
M.D., Loyola University, 1917.
- Fred C. Reynolds.....*Assistant Professor of Clinical Orthopedic Surgery*
A.B., Washington University, 1930; M.D., 1934.
- Melvin Andrew Roblee.....*Assistant Professor of Clinical Obstetrics and Gynecology*
B.S., Washington University, 1923; M.D., 1925.
- Erna L. Rozmarynowski.....*Assistant Professor of Occupational Therapy and Elias Michael Director of the Department of Occupational Therapy*
B.S., Milwaukee-Downer College, 1948.
- Theodore Eugene Sanders.....*Assistant Professor of Clinical Ophthalmology*
B.S., University of Nebraska, 1931; M.D., 1933.
- Val Beyer Satterfield.....*Assistant Professor of Clinical Psychiatry*
B.S., Washington University, 1922; M.D., 1924.
- John Albion Saxton.....*Assistant Professor of Pathology*
A.B., Yale University, 1929; M.D., Washington University, 1934.

- I. L. Schechmeister¹.....*Assistant Professor of Bacteriology and Immunology*
A.B., University of California, 1934; M.A., 1935; Ph.D., 1949.
- Harold Scheff.....*Assistant Professor of Clinical Medicine*
M.D., University of Toronto, 1931.
- Gordon Schoepfle.....*Assistant Professor of Physiology*
A.B., De Pauw University, 1937; Ph.D., Princeton University, 1940.
- Richard Gordon Scobee.....*Assistant Professor of Ophthalmology*
A.B., Rice Institute, 1935; M.D., University of Texas, 1939.
- Virgil 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.
- Martin Silberberg.....*Assistant Professor of Pathology*
M.D., University of Breslau, 1920.
- Ruth M. Silberberg.....*Assistant Professor of Pathology*
M.D., University of Breslau, 1931.
- William Warner Sleator, Jr.....*Assistant Professor of Biophysics in Physiology*
A.B., University of Michigan, 1938; M.S., 1939; Ph.D., 1946.
- Edward B. Smith.....*Assistant Professor of Pathology*
B.S., Indiana University, 1936; M.D., 1938.
- Conrad S. Sommer.....*Assistant Professor of Clinical Psychiatry*
B.S., University of Illinois, 1929; M.S., 1931; M.D., 1932.
- Samuel David Soule.....*Assistant Professor of Clinical Obstetrics and Gynecology*
M.D., Washington University, 1928.
- Arthur Edgar Strauss.....*Assistant Professor of Clinical Medicine*
S.B., Harvard University, 1912; M.D., 1917.
- Earl Sutherland.....*Assistant Professor of Biological Chemistry*
B.S., Washburn College, 1937; M.D., Washington University, 1942.
- Barrett Learned Taussig.....*Assistant Professor of Clinical Medicine*
A.B., Harvard University, 1928; M.D., Washington University, 1932.
- John Fuller Taylor.....*Assistant Professor of Biological Chemistry*
A.B., Cornell University, 1933; Ph.D., Johns Hopkins University, 1937.
- Lawrence Dorland Thompson.....*Assistant Professor of Clinical Medicine*
B.S., Rutgers College, 1917; M.D., Cornell University, 1922.
- Donald Lionell Thurston.....*Assistant Professor of Pediatrics*
B.S., Vanderbilt University, 1934; M.D., 1937.
- Hiromu Tsuchiya.....*Assistant Professor of Parasitology*
A.B., University of Missouri, 1913; Sc.D., Johns Hopkins University, 1930.

¹ Effective September 1, 1950.

- George Andrew Ulett.....*Assistant Professor of Psychiatry*
Ph.D., University of Oregon, 1944; M.D., 1944.
- Philip Leonard Varney.....*Assistant Professor of Bacteriology and Immunology*
B.S., Oregon Agricultural College, 1923; M. S., Washington University, 1926; Ph.D., 1933.
- Sidney Frederick Velick.....*Assistant Professor of Biological Chemistry*
B.S., Wayne University, 1934; M.S., University of Michigan, 1936; Ph.D., 1938.
- Franklin Edward Walton.....*Assistant Professor of Clinical Surgery*
B.S., Shurtleff College, 1923; M.D., Washington University, 1927.
- Samuel Russell Warson.....*Assistant Professor of Psychiatry and Director of the Child Guidance Clinic*
A.B., McGill University, 1930; M.D., 1934.
- Carl Reinhard Wegner.....*Assistant Professor of Clinical Obstetrics and Gynecology*
A.B., North Central College, 1922; M.D., University of Nebraska, 1926.
- Park Jerauld White.....*Assistant Professor of Clinical Pediatrics*
A.B., Harvard University, 1913; M.D., Columbia University, 1917.
- Ray David Williams.....*Assistant Professor of Clinical Medicine*
A.B., Hampton-Sydney College, 1930; M.S., Emory University, 1931; M.D., Washington University, 1937.
- Keith Singleton Wilson.....*Assistant Professor of Clinical Medicine*
A.B., Williams College, 1930; M.D., Washington University, 1934.
- Paul John Zentay.....*Assistant Professor of Clinical Pediatrics and Instructor in Clinical Neurology*
M.D., University of Kolozsvár, 1914.
- Oscar Charles Zink.....*Assistant Professor of Clinical Radiology*
M.D., Washington University, 1921.

RESEARCH ASSOCIATES

- Christopher Carruthers.....*Research Associate in Cancer*
B.S., Syracuse University, 1933; M.S., 1935; Ph.D., State University of Iowa, 1938.
- Dean Fletcher Davies.....*Research Associate in Medicine*
A.B., College of Wooster, 1939; Ph.D., Western Reserve University, 1943; M.D., 1945.
- Anna Reubenia Dubach.....*Research Associate in Medicine*
A.B., Bryn Mawr College, 1919; M.S., University of Colorado, 1935; Ph.D., 1938.
- Laurence G. Gumbreck.....*Research Associate in Surgery*
B.A., University of Wisconsin, 1927; M.A., 1929; Ph.D., 1945.
- Virginia Minnich.....*Research Associate in Medicine*
B.S., Ohio State University, 1937; M.S., Iowa State College, 1938.
- Mildred Cohn Primakoff¹.....*Research Associate in Biological Chemistry*
B.A., Hunter College, 1931; Ph.D., Columbia University, 1937.

¹ On leave of absence, effective September 1, 1950.

- Eugene Roberts.....*Research Associate in Cancer*
B.S., Wayne University, 1940; M.S., University of Michigan, 1941; Ph.D., 1943.
- Theodore Rosenthal.....*Research Associate in Cancer and in Physiology*
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- Mary Ruth Smith.....*Research Associate in Medicine*
B.A., Mississippi State College for Women, 1934; M.S., Johns Hopkins School of Hygiene and Public Health, 1940.
- Valentina Suntzeff.....*Research Associate in Cancer*
M.D., Women's Medical Institute, Petrograd, Russia, 1917.
- Theodore Edwin Weichselbaum.....*Research Associate in Surgery*
B.S., Emory University, 1930; Ph.D., University of Edinburg (Scotland), 1936.

INSTRUCTORS

- Harry Agress.....*Instructor in Clinical Medicine*
B.S., Washington University, 1932; M.D., 1932.
- Louis F. Aitken.....*Instructor in Clinical Medicine*
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- Hubert Lee Allen.....*Instructor in Clinical Obstetrics and Gynecology*
A.B., University of Kansas, 1932; M.D., Tulane University, 1936.
- Edmund B. Alvis.....*Instructor in Clinical Ophthalmology*
M.D., Washington University, 1934.
- August C. Arminini, Jr.....*Instructor in Pathology*
A.B., San Jose State College, 1942; M.D., Stanford University, 1945.
- Franz Joseph Arzt.....*Instructor in Clinical Obstetrics and Gynecology*
M.D., Washington University, 1926.
- James William Bagby.....*Instructor in Clinical Dermatology*
A.B., University of Missouri, 1930; B.S., 1931; M.D., Washington University, 1933.
- Joseph Aloysius Bauer.....*Instructor in Clinical Pediatrics*
M.D., Washington University, 1926.
- Walter Baumgarten, Jr.....*Instructor in Clinical Medicine*
A.B., Washington University, 1935; M.D., 1939.
- Alfred Karl Baur.....*Instructor in Clinical Psychiatry*
A.B., Washington University, 1935; M.D., 1939.
- Sim F. Beam.....*Instructor in Clinical Medicine*
A.B., University of Missouri, 1928; M.D., Washington University, 1932.
- William George Becke.....*Instructor in Clinical Medicine*
M.D., Washington University, 1923.
- Robert Malseed Bell.....*Instructor in Clinical Psychiatry*
M.D., St. Louis University, 1928.
- Bernard Aran Bercu.....*Instructor in Medicine*
M.D., Washington University, 1944.

- Grace Elizabeth Bergner.....*Instructor in Clinical Medicine*
A.B., Washington University, 1939; M.D., 1943.
- Daniel Bisno.....*Instructor in Clinical Ophthalmology*
B.A., University of Wisconsin, 1927; M.D., Johns Hopkins University, 1931.
- Julian Blache.....*Instructor in Pathology*
M.D., Howard University, 1932.
- Loren Francis Blaney¹.....*Instructor in Clinical Medicine*
A.B., Washington University, 1934; M.D., 1938.
- Arthur Robert Bortnick.....*Instructor in Clinical Obstetrics and
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M.D., Washington University, 1935.
- Donald Stewart Bottom.....*Instructor in Clinical Radiology*
A.B., Washington University, 1932; M.D., 1940.
- Mary Helen Brazell.....*Instructor in Social and Environmental Studies*
A.B., University of Oklahoma, 1929.
- Henry Spence Brookes, Jr.....*Instructor in Clinical Surgery*
M.D., Washington University, 1917.
- David H. Brown².....*Instructor in Biological Chemistry*
B.S., California Institute of Technology, 1942; Ph.D., 1948.
- Wilson Gordon Brown.....*Instructor in Pathology*
A.B., William Jewell College, 1935; M.D., Washington University, 1939.
- James Howard Bryan.....*Instructor in Clinical Ophthalmology*
A.B., Washington University, 1932; M.D., 1936.
- William Thomas Kimlin Bryan.....*Instructor in Clinical Otolaryngology*
A.B., Washington University, 1929; M.D., 1933.
- Alfred D. Buchmueller.....*Instructor in Psychiatric Social Service*
A.B., Elmhurst College, 1931.
- Marvin Burstone.....*Instructor in Pathology*
D.D.S., Washington University, 1946; M.A., 1949.
- Anthony Karl Busch.....*Instructor in Clinical Psychiatry*
M.D., St. Louis University, 1937.
- Francis John Canepa.....*Instructor in Clinical Obstetrics and Gynecology*
M.D., Washington University, 1922.
- Edward Wyatt Cannady.....*Instructor in Clinical Medicine*
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- Margaret Ann Carter.....*Instructor in Pathology*
A.B., Washington University, 1934; M.D., 1938.
- Dorothy Mildred Case.....*Instructor in Pediatrics and in Child Psychiatry
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- Benjamin Hynes Charles.....*Instructor in Clinical Medicine*
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- Adolph Henry Conrad, Jr.....*Instructor in Clinical Dermatology*
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- Cyril Joseph Costello.....*Instructor in Clinical Surgery*
B.S., University of Texas, 1936; M.D., 1939.
- Robert Cowgill.....*Instructor in Biological Chemistry*
B.A., University of Kansas, 1941; M.S., Rensselaer Polytechnic Institute, 1942;
Ph.D., Johns Hopkins University, 1950.
- Robert D. Crane.....*Instructor in Biological Chemistry*
Ph.D., Harvard University, 1950.
- Jay Crawford.....*Instructor in Ophthalmology*
A.B., Mifflintown Academy, 1902; B.S., Spring Garden Institute, 1905; M.D.,
Temple Medical College, 1906.
- Harold Cutler.....*Instructor in Clinical Otolaryngology*
M.D., Tufts College, 1937.
- William Daughaday.....*Instructor in Medicine*
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- Anthony Bigelow Day.....*Instructor in Clinical Medicine*
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- Lee Wallace Dean, Jr.....*Instructor in Clinical Otolaryngology*
B.S., Yale University, 1930; M.D., Washington University, 1933.
- Max Deutch.....*Instructor in Clinical Pediatrics*
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- Truman Guthred Drake, Jr.....*Instructor in Clinical Medicine*
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- Joseph Castro Edwards.....*Instructor in Clinical Medicine*
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- Ben Eiseman.....*Instructor in Surgery*
A.B., Yale University, 1939; M.D., Harvard University, 1943.
- Gladden V. Elliott.....*Instructor in Radiology*
A.B., Central College, 1943; M.D., Washington University, 1946.
- Robert William Elliott.....*Instructor in Clinical Medicine*
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- Julius Elson.....*Instructor in Clinical Medicine*
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- Felice Emery.....*Instructor in Clinical Psychiatry*
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- Martin Feeney Engman, Jr.....*Instructor in Clinical Dermatology*
M.D., Washington University, 1928.
- Herman Erlanger.....*Instructor in Clinical Medicine*
A.B., University of Wisconsin, 1933; M.D., Washington University, 1937.
- Arthur Thomas John Esslinger.....*Instructor in Clinical Obstetrics
and Gynecology*
M.D., Washington University, 1940.
- Wesley Street Fee.....*Instructor in Radiology*
A.B., University of Arizona, 1941; M.D., Washington University, 1944.
- Israel Jerome Flance.....*Instructor in Clinical Medicine*
A.B., Washington University, 1931; M.D., 1935.
- Dorothy L. Flint.....*Instructor in Occupational Therapy*
- Ada Wells Ford.....*Instructor in Occupational Therapy*
- Lee T. Ford, Jr.....*Instructor in Clinical Orthopedic Surgery*
M.D., University of Tennessee, 1940.
- Ruth Schreiber Freedman.....*Instructor in Clinical Ophthalmology*
A.B., Washington University, 1938; M.D., 1942.
- David Merrill Freeman.....*Instructor in Ophthalmology*
A.B., University of Missouri, 1940; B.S., in Medicine, 1941; M.D., Washington University, 1943.
- John Ball Frerichs.....*Instructor in Pathology*
A.B., Washington University, 1936; M.D., Johns Hopkins University, 1941.
- Morris Friedkin.....*Instructor in Pharmacology*
B.A., Iowa State College, 1940; B.S., 1941; Ph.D., University of Chicago, 1948.
- Bernard Friedman.....*Instructor in Clinical Medicine*
A.B., University of Wisconsin, 1932; M.D., 1934.
- Minot Packer Fryer.....*Instructor in Clinical Surgery*
A.B., Brown University, 1936; M.D., Johns Hopkins University, 1940.
- George Alvin Gaikins.....*Instructor in Clinical Surgery*
A.B., Philander Smith College, 1916; M.D., Howard University, 1921.
- Ruth Barker Gerstung.....*Instructor in Bacteriology in Pediatrics*
B.A., Washington University, 1917.
- James S. Glotfelty.....*Instructor in Clinical Psychiatry*
M.D., State University of Iowa, 1934.
- Janet Golden.....*Instructor in Psychiatric Social Work*
A.B., Washington University, 1924.
- Melvin Goldman.....*Instructor in Clinical Medicine*
A.B., Washington University, 1939; M.D., 1943.
- Otto Henry William Grunow.....*Instructor in Radiology*
A.B., University of California, 1936; M.D., Washington University, 1940.
- Heinz Haffner.....*Instructor in Clinical Surgery*
B.S., University of Arizona, 1931; M.D., Washington University, 1935.

- Oscar Perry Hampton, Jr. *Instructor in Clinical Orthopedic Surgery*
M.D., University of Tennessee, 1928.
- Stanley Forrest Hampton *Instructor in Clinical Medicine*
A.B., Washington and Lee University, 1930; M.D., Washington University, 1934.
- S. Albert Hanser *Instructor in Clinical Ophthalmology*
B.S., St. Louis University, 1933; M.D., 1937.
- Guerdan Hardy *Instructor in Clinical Otolaryngology*
M.D., Washington University, 1929.
- Stanley Leonard Harrison *Instructor in Clinical Pediatrics*
B.S., Washington University, 1928; M.D., 1930.
- Raymond Francis Holden, Jr. *Instructor in Clinical Medicine*
B.A., Washington University, 1933; M.D., 1933.
- John Holland *Dentist to the Department of Pediatrics*
A.B., Western Reserve University, 1939; D.D.S., 1943.
- Edward C. Holscher *Instructor in Clinical Orthopedic Surgery*
A.B., University of Missouri, 1933; B.S., 1933; M.D., Harvard University, 1935.
- John Linscott Horner *Instructor in Clinical Medicine*
A.B., Washington University, 1932; M.D., 1936.
- Herman Hutto *Instructor in Clinical Obstetrics and Gynecology*
A.B., University of Alabama, 1932; M.D., Washington University, 1935.
- Menard Ihnen *Instructor in Pathology*
M.D., University of Illinois, 1946.
- Frederick August Jacobs *Instructor in Clinical Pediatrics*
B.S., Washington University, 1927; M.D., 1928.
- J. Ted Jean *Instructor in Clinical Medicine*
A.B., Indiana University, 1924; M.D., Washington University, 1928.
- Richard Johnson *Instructor in Pathology*
A.B., Lafayette College, 1935; M.D., Johns Hopkins University, 1939.
- Dorothy Jeannette Jones *Instructor in Clinical Pediatrics*
A.B., Oberlin College, 1930; M.D., Washington University, 1934.
- David F. Kahn *Instructor in Medical Psychology*
B.S., University of Connecticut, 1942; M.S., Purdue University, 1946; Ph.D., 1948.
- Alex H. Kaplan *Instructor in Clinical Psychiatry*
B.S., College of City of New York, 1932; M.D., St. Louis University, 1936.
- Michael Meyer Karl *Instructor in Clinical Medicine*
M.D., University of Louisville, 1938.
- Thomas Keely, Jr. *Instructor in Radiology*
A.B., Drury College, 1946; M.D., Washington University, 1947.
- Robert Wilson Kelley *Instructor in Clinical Medicine*
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- David Nafe Kerr *Instructor in Clinical Medicine*
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M.D., University of Budapest, 1934.
- Robert C. Kingsland.....*Instructor in Clinical Medicine*
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- Melvin B. Kirstein.....*Instructor in Clinical Medicine*
B.S., Indiana University, 1930; M.D., 1933.
- William Gene Klingberg.....*Instructor in Pediatrics*
A.B., University of Wichita, 1938; M.D., Washington University, 1943.
- Karl Frederick Koenig.....*Instructor in Clinical Medicine*
B.S., University of Illinois, 1923; M.D., Washington University, 1931.
- 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.
- Edward L. Kuff.....*Instructor in Anatomy*
A.B., Johns Hopkins University, 1943; M.D., 1947.
- Lorraine Lake.....*Instructor in Physical Therapy*
- Franz Leidler.....*Instructor in Pathology*
M.D., University of Vienna, 1938; M.S., Kansas State College, 1941.
- Stanley Milton Leydig.....*Instructor in Clinical Orthopedic Surgery*
A.B., State University of Montana, 1930; M.D., Washington University, 1934.
- Grover Bernard Liese.....*Instructor in Clinical Obstetrics and Gynecology*
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- Hiram Shaw Liggett.....*Instructor in Clinical Medicine*
M.D., Washington University, 1920.
- Carl Edward Lischer.....*Instructor in Clinical Surgery*
A.B., University of California, 1933; M.D., Washington University, 1937.
- Sol Londe.....*Instructor in Clinical Pediatrics*
B.S., Washington University, 1925; M.D., 1927.
- Maurice Julius Lonsway.....*Instructor in Clinical Pediatrics*
B.S., Valparaiso University, 1910; M.D., St. Louis University, 1914.
- Edward Harry Lyman.....*Instructor in Clinical Otolaryngology*
B.S., Washington University, 1937; M.D., 1937.
- George Manting.....*Instructor in Clinical Dermatology*
M.D., University of Michigan, 1915.
- Morris David Marcus.....*Instructor in Clinical Dermatology*
M.D., Washington University, 1934.
- Paul Franklin Max.....*Instructor in Clinical Obstetrics and Gynecology*
B.S., Washington University, 1932; M.D., 1932.
- Richard Wesley Maxwell.....*Instructor in Clinical Medicine*
A.B., Greenville College, 1932; M.D., University of Chicago, 1937.

- William Henry Meinberg, Jr.....*Instructor in Clinical Ophthalmology*
B.S., in Medical Science, Washington University, 1932; M.D., 1932.
- Mildred L. Merrifield.....*Instructor in Psychiatric Social Work*
A.B., Smith College, 1935; M.S.S., Western Reserve University, 1939.
- Milton Herman Meyerhardt.....*Instructor in Clinical Obstetrics and Gynecology*
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- Benjamin Milder.....*Instructor in Clinical Ophthalmology*
M.D., Washington University, 1939.
- Paul W. Miles.....*Instructor in Ophthalmology*
A.B., University of Kansas, 1935; M.D., 1938.
- John James Modlin.....*Instructor in Clinical Surgery*
B.S., University of Nebraska, 1934; M.D., 1938.
- Seymour Maurice Monat.....*Instructor in Clinical Obstetrics and Gynecology*
A.B., University of Pennsylvania, 1935; M.D., Long Island College of Medicine, 1939.
- Kevin Charles Morrin.....*Instructor in Clinical Obstetrics and Gynecology*
M.B., B.Ch., National University of Ireland, 1921.
- Joseph William Noah.....*Instructor in Clinical Medicine*
A.B., University of Missouri, 1938; B.S., 1939; M.D., Washington University, 1941.
- Joseph H. Ogura.....*Instructor in Otolaryngology*
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- John B. O'Neill.....*Instructor in Clinical Obstetrics and Gynecology*
M.D., St. Louis University, 1927.
- Robert Paine.....*Instructor in Clinical Medicine*
M.D., Harvard University, 1944.
- James Oscar Palmer.....*Instructor in Medical Psychology*
A.B., University of California, 1940; Ph.D., 1949.
- Harry E. Panhorst.....*Instructor in Hospital Administration and Associate Director of the Course in Hospital Administration*
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- Leslie Endicott Patton.....*Instructor in Clinical Obstetrics and Gynecology*
B.S., St. Louis University, 1921; M.D., 1924.
- Miriam M. Pennoyer.....*Instructor in Clinical Pediatrics*
B.S., Carnegie Institute, 1935; M.D., University of Rochester, 1939.
- Anne Macgregor Perley.....*Instructor in Biological Chemistry in Pediatrics*
A.B., Grinnell College, 1927; A.M., University of Nebraska, 1929.
- Allen B. Potter.....*Instructor in Clinical Otolaryngology*
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- Harold K. Roberts.....*Instructor in Clinical Medicine*
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- Edith C. Robinson.....*Instructor in Clinical Pediatrics*
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- William J. Robinson.....*Instructor in Clinical Psychiatry*
M.D., Medical College of Virginia, 1939.
- Maurice Bernard Roche.....*Instructor in Clinical Orthopedic Surgery*
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- Edwin Henry Rohlfing.....*Instructor in Clinical Pediatrics*
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- Albert Roos.....*Instructor in Physiology and in Surgery*
M.D., University of Groningen (Holland), 1940.
- Harry David Rosenbaum.....*Instructor in Clinical Ophthalmology*
M.D., Washington University, 1934.
- Herman John Rosenfeld.....*Instructor in Clinical Medicine*
M.D., University of Munich (Germany), 1923.
- David C. Rothman.....*Instructor in Clinical Obstetrics and Gynecology*
B.S., in Med. Science, Washington University, 1935; M.D., 1935.
- George E. Roulhac.....*Instructor in Neurological Surgery*
M.D., Vanderbilt University, 1939.
- Ernest T. Rouse, Jr.....*Instructor in Clinical Medicine*
B.S., Alabama Polytechnic Institute, 1939; M.D., Washington University, 1943.
- Wayne Arthur Rupe.....*Instructor in Clinical Pediatrics*
A.B., University of Missouri, 1916; M.D., Washington University, 1918.
- Leo A. Sachar.....*Instructor in Clinical Surgery*
A.B., Washington University, 1936; M.D., 1940.
- Llewellyn Sale, Jr.....*Instructor in Clinical Medicine*
A.B., Yale University, 1936; M.D., Washington University, 1940.
- Joseph Hoy Sanford.....*Instructor in Clinical Genitourinary Surgery*
M.D., Tulane Medical College, 1908.
- M. H. Scheele.....*Instructor in Clinical Dermatology*
M.D., St. Louis University, 1909.
- Beatrice Schulz.....*Instructor in Physical Therapy*
B.S., Washington University, 1949.
- Alfred Seymour Schwartz.....*Instructor in Clinical Pediatrics*
M.D., Johns Hopkins University, 1936.
- Willard Calvin Scrivner.....*Instructor in Clinical Obstetrics and*
B.S., Washington University, 1928; M.D., 1930. *Gynecology*
- William Bernard Seamen.....*Instructor in Radiology*
M.D., Harvard University, 1941.
- John Wickham Seddon.....*Instructor in Clinical Medicine*
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- Philip T. Shahan.....*Instructor in Clinical Ophthalmology*
A.B., Harvard University, 1938; M.D., Washington University, 1942.
- Frank O. Shobe.....*Instructor in Clinical Psychiatry*
A.B., Washington University, 1938; M.D., 1942.
- David Miller Skilling, Jr.....*Instructor in Clinical Medicine*
B.S., Washington and Jefferson College, 1923; M.D., Washington University, 1928.
- Herbert M. Smit.....*Instructor in Clinical Otolaryngology*
M.D., St. Louis University, 1933.
- David English Smith.....*Instructor in Pathology*
A.B., Central College, 1941; M.D., Washington University, 1944.
- Milton Smith.....*Instructor in Clinical Medicine*
B.S., Washington University, 1928; M.D., 1930.
- Robert Moore Smith.....*Instructor in Clinical Medicine*
A.B., Washington University, 1936; M.D., 1940.
- William Snoddy.....*Instructor in Pathology*
M.D., University of Oklahoma, 1944.
- A. Jackson Stacy, Jr.....*Instructor in Radiology*
B. A., University of Mississippi, 1941; M.D., Washington University, 1947.
- Franz Ulrich Steinberg.....*Instructor in Clinical Medicine*
M.D., University of Berne (Switzerland), 1938.
- Frances H. Stewart.....*Instructor in Clinical Obstetrics and Gynecology*
M.D., Washington University, 1927.
- Carliss Malone Stroud.....*Instructor in Clinical Medicine*
B.S., University of Mississippi, 1924; M.D., Washington University, 1926.
- Albert Chesterfield D. Stutsman.....*Instructor in Clinical Otolaryngology*
B.S., Roanoke College, 1927; M.D., University of Virginia, 1931.
- Adolph Surtshin.....*Instructor in Physiology and Research*
Assistant in Gerontology
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- Elaine Moore Thomas.....*Instructor in Preventive Medicine and*
Public Health
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- Jean H. Thurston.....*Instructor in Pediatrics*
B.A., University of Alberta, 1938; M.D., 1941.
- John C. Tinsley.....*Instructor in Medicine*
B.S., College of William and Mary, 1939; M.D., University of Virginia, 1943.
- George X. Trimble.....*Instructor in Medicine and in Preventive Medicine*
A.B., University of Toronto, 1935; M.D., 1938.
- Samuel A. Trufant III¹.....*Instructor in Neurology*
M.D., Tulane University, 1943.

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- Robert Votaw.....*Instructor in Clinical Otolaryngology*
B.S., State University of Iowa, 1927; M.D., 1929.
- Harry Ewing Wachter.....*Instructor in Clinical Pediatrics*
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.
- Carl August Wattenberg.....*Instructor in Clinical Genitourinary Surgery*
A.B., University of Kansas, 1934; M.D., 1937.
- Graham Taylor Webster.....*Instructor in Biological Chemistry*
A.B., Harvard University, 1931; M.D., 1935.
- John Harrison Wedig.....*Instructor in Clinical Medicine*
M.D., Washington University, 1938.
- Herbert Charles Wiegand.....*Instructor in Clinical Medicine*
A.B., Washington University, 1940; M.D., 1943.
- Harry William Wiese.....*Instructor in Clinical Medicine*
B.S., Washington University, 1920; M.D., 1922.
- Arnold H. Williams.....*Instructor in Physiology in Medicine*
B.S., Harvard University, 1939; M.D., Western Reserve University, 1943.
- Edward B. Williams, Jr.....*Instructor in Clinical Medicine*
M.D., Meharry Medical College, 1944.
- Wilfred E. Wooldridge.....*Instructor in Clinical Dermatology*
B.S., Drury College, 1939; M.D., Washington University, 1943.
- Ralph Benson Woolf.....*Instructor in Obstetrics and Gynecology*
B.S., Massachusetts Institute of Technology, 1935; M.D., University of Rochester, 1939.
- George J. L. Wulff, Jr.....*Instructor in Clinical Obstetrics and Gynecology*
A.B., Washington University, 1929; M.D., 1933.

ASSISTANTS

- Oliver Abel, Jr.....*Assistant in Clinical Medicine*
B.S., Washington University, 1922; M.D., 1923.
- Morris Abrams.....*Assistant in Clinical Genitourinary Surgery*
B.S., University of Illinois, 1936; M.D., 1937.
- Philip Ackerman.....*Research Assistant (assigned to the Division of Gerontology)*
B.S., University of Oregon, 1931; Ph.D., Johns Hopkins University, 1936.
- Frank L. Adler.....*Assistant in Bacteriology and Immunology*
M.S., University of Kentucky, 1949.
- Helen Margaret Aff.....*Assistant in Clinical Pediatrics*
B.S., Washington University, 1934; M.D., 1934.
- Carl Jacob Althaus.....*Assistant in Clinical Genitourinary Surgery*
M.D., St. Louis University, 1917.

- Rosemary Baessler.....*Research Assistant in Psychiatry*
B.S., Northwestern University, 1941.
- Adolph V. Baluka.....*Assistant in Occupational Therapy*
- John Washington Bassett.....*Assistant in Surgery*
B.S., University of Arkansas, 1942; M.D., Tulane University, 1944.
- J. Byron Beare.....*Assistant in Clinical Genitourinary Surgery*
M.D., St. Louis University, 1939.
- Clifton Harold Beasley¹.....*Assistant in Clinical Ophthalmology*
B.S., University of Arkansas, 1938; M.D., 1941.
- M. Remsen Behrer.....*Assistant in Pediatrics*
A.B., Williams College, 1942; M.D., Long Island College of Medicine, 1945.
- Leonard Berg.....*Assistant in Medicine*
A.B., Washington University, 1945; M.D., 1949.
- William Berman.....*Assistant in Clinical Obstetrics and Gynecology*
M.D., Washington University, 1935.
- Harvey Rolland Bernard.....*Assistant in Surgery*
M.D., Washington University, 1947.
- Marguerite Bick.....*Assistant in Clinical Occupational Therapy*
- Edward J. Bishop.....*Assistant in Surgery*
M.D., University of Cincinnati, 1947.
- Vilray Papin Blair, Jr.....*Assistant in Clinical Orthopedic Surgery*
M.D., Washington University, 1939.
- Clifford Read Boles.....*Assistant in Clinical Pediatrics*
A.B., Washington University, 1940; M.D., 1943.
- Bryce Harold Bondurant.....*Assistant in Clinical Obstetrics and Gynecology*
A.B., Northeast Missouri State Teachers College, 1936; D.O., Kirksville College of Osteopathy and Surgery, 1940; M.D., Washington University, 1943.
- MacDonald Bonebrake.....*Assistant in Obstetrics and Gynecology*
B.S., Drury College, 1943; M.D., Washington University, 1946.
- Henry William Bopp, Jr.....*Assistant in Surgery*
M.D., Washington University, 1945.
- Robert Dunlap Brookes.....*Assistant in Clinical Neurology*
A.B., De Pauw University, 1934; M.D., Washington University, 1938.
- Betty McDonald Caldwell.....*Assistant in Medical Psychology*
A.B., Baylor University, 1945; M.A., State University of Iowa, 1946.
- Martin M. Calodney.....*Assistant in Clinical Pediatrics*
B.S., College of City of New York, 1930; M.D., New York University, 1936.
- Marguerite Cannon.....*Assistant in Psychiatric Social Work*
M.S.W., Washington University, 1947.

¹ July 1 to July 31, 1950.

- James Thomas Chamness.....*Assistant in Surgery*
M.D., University of Pennsylvania, 1944.
- Margaret Chieffi.....*Research Assistant (assigned to the Division of Gerontology)*
M.D., University of New Zealand, 1937.
- John Lloyd Cockrell.....*Assistant in Obstetrics and Gynecology*
A.B., University of Missouri, 1939; B.S. in Medicine, 1941; M.A., 1941; M.D., Washington University, 1943.
- Arthur L. Coleman, Jr.....*Assistant in Radiology*
B.A., Amherst College, 1948; M.D., Yale University, 1948.
- William F. Collins, Jr.¹.....*Assistant in Surgery*
B.S., Yale University, 1945; M.D., 1947.
- Robert Milton Counts.....*Assistant in Neuropsychiatry*
M.D., Washington University, 1947.
- Harry Cutler.....*Assistant in Clinical Genitourinary Surgery*
M.D., St. Louis University, 1930.
- Arthur R. Dalton.....*Assistant in Clinical Surgery*
B.S., University of Missouri, 1938; B.S. in Med., Northwestern University, 1940; M.D., 1941.
- Morris Davidson.....*Assistant in Clinical Otolaryngology*
B.S., Indiana University, 1936; M.D., 1938.
- Sadab Dhiraputra.....*Assistant in Otolaryngology*
M.B., Chulalongkarana University (Thailand), 1940.
- Frederick William Dowda.....*Assistant in Medicine*
B.S., Emory University, 1944; M.D., 1949.
- Norman Walter Drey.....*Assistant in Clinical Medicine*
A.B., Princeton University, 1932; M.D., Washington University, 1936.
- Oliver H. Duggins.....*Research Assistant in Anatomy*
B.S., Northwestern University, 1934; M.S., 1936.
- Richard Warren Eells.....*Assistant in Radiology*
A.B., Columbia University, 1944; M.D., Cornell University, 1947.
- Calvin Carlyle Ellis.....*Assistant in Clinical Dermatology*
A.B., Washington University, 1937; M.D., 1941.
- Irwin Herman Eskeles.....*Assistant in Clinical Dermatology*
B.S., Washington University, 1920; M.D., 1922.
- George M. Ewing.....*Assistant in Pediatrics*
M.D., Washington University, 1946.
- Kenneth J. Fijan.....*Assistant in Pediatrics*
B.S. in Med., University of Illinois, 1943; M.D., 1945.
- Harry William Fischer.....*Assistant in Surgery*
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¹ On leave of absence.

- Virgil Otto Fish.....*Assistant in Clinical Surgery*
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- Alfred Fleishman.....*Assistant in Clinical Medicine*
B.S., Washington University, 1935; M.D., 1935.
- Bruce Todd Forsyth.....*Assistant in Medicine*
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- Leon J. Fox.....*Assistant in Clinical Orthopedic Surgery*
B.S. in M.S., Washington University, 1939; M.D., 1939.
- Harold E. Freedman.....*Assistant in Clinical Medicine*
Ph.B., Yale University, 1929; M.D., Washington University, 1938.
- Robert H. Friedman.....*Assistant in Pediatrics*
M.D., Washington University, 1948.
- Gus J. Furla.....*Assistant in Physical Medicine*
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- Helen Gage.....*Assistant in Clinical Otolaryngology*
B.S., University of Michigan, 1916; M.D., 1918.
- William J. Gallagher.....*Assistant in Pediatrics*
M.D., Cornell University, 1947.
- Bernard Theodore Garfinkel.....*Assistant in Medicine*
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- Mary B. Gilliland.....*Assistant in Pediatrics*
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- Bertrand Younker Glassberg.....*Assistant in Clinical Medicine*
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- Samuel Walter Gollub.....*Assistant in Clinical Pediatrics*
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- Bernard S. Gordon.....*Assistant in Neuropsychiatry*
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- Leo Francis Gowen.....*Assistant in Clinical Pediatrics*
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- Arthur S. Greditzer.....*Assistant in Neuropsychiatry*
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- Kendall Decatur Gregory.....*Assistant in Clinical Medicine*
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- Axel Reinhold Gronau.....*Assistant in Clinical Medicine*
M.D., University of Naples, 1935.
- Eunice Grover.....*Research Assistant in Medicine*
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- Gerhard Elias Gruenfeld.....*Assistant in Clinical Surgery*
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- Charles Russell Gulick.....*Assistant in Clinical Obstetrics and Gynecology*
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- Landon H. Gurnee.....*Assistant in Otolaryngology*
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- Andy Hall, Jr.....*Assistant in Clinical Genitourinary Surgery*
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- Lawrence Keats Halpern.....*Assistant in Clinical Dermatology*
M.D., University of Colorado, 1937.
- Norman Merlin Hankin.....*Assistant in Clinical Pediatrics*
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- Helen Harkness.....*Assistant in Clinical Occupational Therapy*
- Fleming H. Harper.....*Assistant in Surgery*
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- Lamar B. Harper.....*Assistant in Clinical Ophthalmology*
M.D., George Washington University, 1936.
- Lee Bullen Harrison.....*Assistant in Clinical Medicine*
A.B., University of Utah, 1925; M.D., Washington University, 1927.
- Hugh Harting.....*Assistant in Radiology*
M.D., Washington University, 1948.
- Paul Tupper Hartman.....*Assistant in Clinical Psychiatry*
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- Arthur L. Haskins.....*Assistant in Obstetrics and Gynecology*
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- William Davis Hawker.....*Assistant in Clinical Obstetrics and Gynecology*
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- Samuel J. Hayward.....*Research Assistant in Obstetrics and
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- David Floyd Hersey.....*Assistant in Bacteriology and Immunology*
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- Helen L. Hilderman.....*Research Assistant in Medicine*
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- Ellabeth Houghton.....*Research Assistant in Medicine*
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- Bernard Hulbert.....*Assistant in Clinical Medicine*
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- Mary Chapman Johnson.....*Research Assistant in Medicine*
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- John Kennedy.....*Assistant in Clinical Medicine*
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- Daniel David Klaff.....*Assistant in Clinical Otolaryngology*
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- Norman E. Knowlton.....*Assistant in Medicine*
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- Kenneth Albert Koerner.....*Assistant in Clinical Pediatrics*
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- Jules H. Kopp.....*Assistant in Clinical Genitourinary Surgery*
M.D., University of Arkansas, 1931.
- Lawrence Melvin Kotner.....*Assistant in Clinical Medicine*
A.B., Washington University, 1934; M.D., 1938.
- Edward H. Kowert.....*Assistant in Clinical Psychiatry*
A.B., Washington University, 1940; M.D., 1943.
- Cletus L. Krag.....*Research Assistant (assigned to Division of Gerontology)*
B.A., Stanford University, 1943; M.D., Boston University, 1947.
- Marianne Kuttner.....*Assistant in Clinical Pediatrics*
M.D., Johan Wolfgang Goethe University (Frankfurt on Main), 1931.
- Robert S. Lackey.....*Assistant in Radiology*
M.D., Jefferson Medical College, 1948.

¹ On leave of absence.

- Robert Dale Lange.....*Assistant in Medicine*
A.B., Macalester College, 1941; M.D., Washington University, 1944.
- Harry James Lawler.....*Assistant in Clinical Pediatrics*
B.S., University of Illinois, 1936; D.Sc., Johns Hopkins University, 1940; M.D., Washington University, 1943.
- Richard A. Lemmer.....*Assistant in Surgery*
A.B., Kalamazoo College, 1941; M.D., Johns Hopkins University, 1944.
- David M. Lieberman.....*Assistant in Medicine*
M.D., Vanderbilt University, 1949.
- Robert Loeffel.....*Research Assistant in Biological Chemistry*
B.S.M.E., Washington University, 1929.
- Warren M. Lonergan.....*Assistant in Clinical Medicine*
A.B., Westminster College, 1936; M.D., Vanderbilt University, 1940.
- Frank Barnes Long, Jr.....*Assistant in Obstetrics and Gynecology*
M.D., Washington University, 1947.
- Harry Ludwig.....*Research Assistant in Otolaryngology*
B.S.E.E., University of Illinois, 1949.
- Dorothy T. Magallon.....*Assistant in Obstetrics and Gynecology*
M.D., Washington University, 1946.
- Kurt Mansbacher.....*Assistant in Clinical Medicine*
M.D., Friedrich-Wilhelms University, 1919.
- Bruce H. Marshall.....*Assistant in Pediatrics*
M.D., Western Reserve University, 1947.
- John Charles Martz.....*Assistant in Clinical Pediatrics*
A.B., University of Missouri, 1938; M.D., Washington University, 1942.
- Evelyn P. Mason.....*Assistant in Medical Psychology*
B.A., Mills College, 1946.
- Herbert Arthur Mazur.....*Assistant in Clinical Pediatrics*
M.D., Washington University, 1943.
- Frances E. McCarthy.....*Research Assistant in Medicine*
B.A., Vassar College, 1946.
- David N. McClure.....*Assistant in Clinical Pediatrics*
M.D., University of Tennessee, 1940.
- David F. Mendelson.....*Assistant in Neuropsychiatry*
B.A., University of California, 1946; M.D., Indiana University, 1948.
- Edna Marie Menhard.....*Research Assistant in Medicine*
B.S., St. Louis University, 1946.
- Floyd B. Merritt.....*Assistant in Pediatrics*
A.B., State University of Iowa, 1943; M.D., 1946.
- Kenneth D. Michael.....*Assistant in Neuropsychiatry*
M.D., St. Louis University, 1947.
- J. Neal Middelkamp.....*Assistant in Pediatrics*
B.S. in Med., University of Missouri, 1946; M.D., Washington University, 1948.

- Warren Benjamin Mills.....*Assistant in Clinical Neuropsychiatry*
B.S. in Med. Sci., Washington University, 1941; M.D., 1942.
- Esther Lee Mirmow.....*Research Assistant in Clinical Psychology*
A.B., Smith College, 1943; M.A., 1945.
- Arnold S. Moe.....*Assistant in Clinical Medicine*
B.S., University of Minnesota, 1933; M.B., 1934; M.D., 1939.
- William A. Moor.....*Assistant in Ophthalmology*
A.B., Washington University, 1935.
- Charles Barber Mueller.....*Assistant in Surgery and Markle Fellow*
A.B., University of Illinois, 1938; M.D., Washington University, 1942.
- Emily Elizabeth Mueller.....*Research Assistant in Physical Medicine*
B.S., University of Pittsburgh, 1944; M.S., Medical College of Virginia, 1950.
- Robert John Mueller.....*Assistant in Clinical Neuropsychiatry*
M.D., Washington University, 1936; M.S., University of Michigan, 1942.
- Helen E. Nash.....*Assistant in Clinical Pediatrics*
A.B., Spelman College, 1942; M.D., Meharry Medical College, 1945.
- Joseph Morton Natterson.....*Assistant in Neuropsychiatry*
A.B., West Virginia University, 1945; B.S. in Medicine, 1946; M.D., Washington University, 1948.
- Jackson Coil Neavles.....*Assistant in Clinical Neuropsychiatry*
A.B., Washington University, 1938; B.S., in Med. Sci. 1942; M.D., 1942.
- John Francis Neville, Jr.....*Assistant in Surgery*
B.S., Yale University, 1944; M.D., 1946.
- Henry W. Noller.....*Assistant in Clinical Medicine*
A.B., University of Kansas, 1941; M.D., Washington University, 1944.
- Laurence Wayne O'Neal.....*Assistant in Surgery*
M.D., Washington University, 1946.
- Patricia Lee O'Neal.....*Assistant in Neuropsychiatry*
A.B., Washington University, 1944; M.D., 1948.
- Morton Pareira.....*Assistant in Clinical Surgery*
A.B., Washington University, 1933; M.D., 1937.
- James Pennoyer.....*Assistant in Clinical Obstetrics and Gynecology*
B.S., Hobart College, 1933; M.D., University of Rochester, 1939.
- William David Perry.....*Assistant in Medicine*
A.B., Northwest Missouri State Teachers College, 1943; B.S., in Medicine, University of Missouri, 1945; M.D., Washington University, 1947.
- Mather Pfeifferberger, Jr.....*Assistant in Surgery*
A.B., Yale University, 1941; M.D., Harvard University, 1944.
- John Leahy Power¹.....*Assistant in Ophthalmology*
M.D., University of Tennessee, 1943.
- Robert Henry Ramsey.....*Assistant in Surgery*
B.S., University of Arkansas, 1943; M.D., Washington University, 1945.

¹ July 1, 1950, to May 31, 1951.

- Ralph S. Riffenburgh¹.....*Assistant in Clinical Ophthalmology*
B.S., Virginia Polytechnic Institute, 1943; M.D., Medical College of Virginia,
1947.
- Paul H. Ripple².....*Assistant in Ophthalmology*
B.S., Franklin and Marshall College, 1943; M.D., University of Pennsylvania,
1946.
- James C. Roberts, Jr.....*Assistant in Pathology*
A.B., Washington University, 1945; M.D., University of Rochester, 1949.
- Donald W. Robinson.....*Assistant in Obstetrics and Gynecology*
M.D., Washington University, 1939.
- Stanley N. Rokaw.....*Assistant in Medicine*
B.B.A., College of the City of New York, 1943; B.S., Washington University,
1949; M.D., 1949.
- Doris Rolf.....*Research Assistant in Physiology*
A.B., Harris Teachers' College, 1936.
- Marvin Rosecan.....*Assistant in Medicine*
B.S., Washington University, 1949; M.D., 1949.
- Herbert E. Rosenbaum.....*Assistant in Neuropsychiatry*
B.S., University of Oregon, 1947; M.D., 1949.
- Charles Augustus Ross, Jr.....*Assistant in Surgery*
M.D., Columbia University, 1946.
- Charles M. Ross.....*Assistant in Medicine*
M.D., University of Rochester, 1948.
- Elsie Shaw Roush.....*Assistant in Anatomy*
B.S., in Education, Madison College, 1943; M.S., University of Wisconsin, 1947.
- Robert Killian Royce.....*Assistant in Clinical Genitourinary Surgery*
B.S., University of Mississippi, 1939; M.D., Washington University, 1942.
- Samuel Ely Schechter.....*Assistant in Clinical Medicine*
M.D., Washington University, 1941.
- Frederick W. Scherrer, Jr.....*Assistant in Clinical Otolaryngology*
B.S., St. Louis University, 1926; M.D., 1928; M.S., in Otolaryngology, University
of Pennsylvania, 1932.
- Richard Frederick Schneider.....*Assistant in Neuropsychiatry*
A.B., Washington University, 1944; M.D., 1947.
- Sam Schneider.....*Assistant in Clinical Surgery*
A.B., Washington University, 1932; M.D., 1936.
- Dale M. Schulz.....*Assistant in Pathology*
B.A., Miami University, 1940; M.S., Washington University, 1942; M.D., 1949.
- Stanley H. Schuman.....*Assistant in Pediatrics*
M.D., Washington University, 1948.
- Bernard Schwartzman.....*Assistant in Clinical Pediatrics*
A.B., Washington University, 1931; M.D., 1935.

¹ July 1 to September 30, 1950.

² August 1, 1950, to May 31, 1951.

- James Harry Scruggs, Jr.¹.....*Assistant in Ophthalmology*
B.A., University of Texas, 1943; M.D., 1945.
- Gumaro Serrano.....*Assistant in Otolaryngology*
M.D., University of Mexico, 1943.
- Charles Leon Shafer².....*Assistant in Medicine*
A.B., University of Missouri, 1941; B.S., in Med., 1944; M.D., Harvard University, 1946.
- John Blasdel Shapleigh II.....*Assistant in Medicine*
M.D., Washington University, 1946.
- Burton Albert Shatz.....*Assistant in Clinical Medicine*
A.B., Washington University, 1940; M.D., 1943.
- Harrison H. Shoulders, Jr.....*Assistant in Surgery*
A.B., Vanderbilt University, 1943; M.D., 1946.
- Wade H. Shuford.....*Assistant in Radiology*
M.D., University of Rochester, 1948.
- Ernest S. Simms³.....*Research Assistant in Surgery*
Lewis Institute, (no degree); University of Minnesota, (no degree).
- Richard G. Sisson.....*Assistant in Surgery*
M.D., Yale University, 1946.
- John Spalding Skinner.....*Assistant in Clinical Medicine*
M.D., Washington University, 1940.
- Justin Sleight⁴.....*Assistant in Ophthalmology*
A.B., Northwestern University, 1943; M.D., 1945.
- Catherine A. Smith.....*Research Assistant in Otolaryngology*
A.B., Washington University, 1935; M.S., 1948.
- Kathleen Smith.....*Assistant in Neuropsychiatry*
B.S., University of Arkansas, 1934; M.D., Washington University, 1949.
- John W. Sneed, Jr.⁴.....*Assistant in Ophthalmology*
B.S., University of Arkansas, 1936; M.D., 1938.
- Sanford Snyderman.....*Assistant in Otolaryngology*
M.D., Washington University, 1946.
- Ross B. Sommer.....*Assistant in Medicine*
A.B., Miami University, 1945; M.D., Cornell University, 1949.
- John K. Spitznagel.....*Assistant in Medicine*
A.B., Columbia University, 1943; M.D., 1946.
- Wallace Raymond Stacey.....*Assistant in Obstetrics and Gynecology*
A.B., Southwest Missouri State Teachers College, 1938; B.S., in Medicine, University of Missouri, 1943; M.D., Washington University, 1945.

¹ July 1 to December 31, 1950.

² In residence at Los Alamos.

³ July 1, 1950, to October 31, 1950.

⁴ July 1, 1950, to May 31, 1951.

- Colby S. Stearns.....*Assistant in Radiology*
B.S., Yale University, 1943; M.D., 1946.
- Marvin Stein.....*Assistant in Neuropsychiatry*
B.S., Washington University, 1949; M.D., 1949.
- Hugh Edward Stephenson, Jr.....*Assistant in Surgery*
B.S., in Medicine, University of Missouri, 1943; M.D., Washington University, 1945.
- Arthur Stickler, Jr.¹.....*Assistant in Ophthalmology*
M.D., University of Oklahoma, 1943.
- Jack L. Strominger.....*Research Assistant in Pharmacology*
A.B., Harvard University, 1947; M.D., Yale University, 1948.
- Alfred R. Sudholt, Jr.....*Assistant in Clinical Obstetrics and Gynecology*
A.B., University of Missouri, 1940; B.S., in Medicine, 1942; M.D., Washington University, 1943.
- Richard Louis Thomas.....*Assistant in Ophthalmology*
A.B., University of Nebraska, 1939; B.S., in Medicine, 1943; M.D., 1943.
- Victor E. Tinderholt.....*Research Assistant in Pathology*
A.B., Luther College, 1944; M.S., Washington University, 1947.
- Stanley Truhlsen¹.....*Assistant in Ophthalmology*
A.B., University of Nebraska, 1941; M.D., 1944.
- Jack Lee Turner.....*Assistant in Otolaryngology*
B.S., Southern Methodist University, 1943; M.D., Baylor University, 1946.
- Dominic Joseph Verda.....*Assistant in Clinical Surgery*
A.B., University of Illinois, 1924; M.A., 1930; M.D., Johns Hopkins University, 1935.
- Willard B. Walker.....*Assistant in Surgery*
M.D., Washington University, 1946.
- William B. Wall, Jr.....*Assistant in Surgery*
B.S., University of Georgia, 1942; M.D., 1946.
- Charles Watkins.....*Assistant in Otolaryngology*
B.S. in Med., University of Arkansas, 1944; M.D., 1946.
- Watts Rankin Webb.....*Assistant in Surgery*
B.A., University of Mississippi, 1942; M.D., Johns Hopkins University, 1945.
- Eugene Weber.....*Assistant in Clinical Dermatology*
M.D., Northwestern University, 1940.
- Calvin James Wegner.....*Assistant in Pathology*
B.S., University of Wisconsin, 1945; M.D., 1947.
- Jane Loevinger Weissman.....*Research Assistant in Medical Psychology*
A.B., University of Minnesota, 1937; M.S., 1938; Ph.D., University of California, 1944.
- George Winokur.....*Assistant in Neuropsychiatry*
A.B., Johns Hopkins University, 1944; M.D., University of Maryland, 1947.

¹ July 1, 1950, to May 31, 1951.

- Frank Sum Wissmath.....*Assistant in Clinical Pediatrics*
A.B., Washington University, 1939; M.D., 1943.
- Seth E. Wissner.....*Assistant in Obstetrics and Gynecology*
A.B., Washington University, 1942; M.D., 1946.
- Carl T. Woolsey.....*Assistant in Obstetrics and Gynecology*
A.B., University of Utah, 1940; M.D., Washington University, 1943.
- Doris Surles Woolsey.....*Assistant in Clinical Otolaryngology*
B.S., Duke University, 1938; M.D., 1939.
- Richard William Yore.....*Assistant in Surgery*
A.B., Washington University, 1939; M.D., 1943.

LECTURERS

- William Anderson.....*Lecturer in Hospital Administration*
- Leon P. Beck.....*Lecturer in Occupational Therapy*
B.S., in Education, Temple University, 1935; M.S.W., Pittsburgh School of Social Work, 1947.
- Henrietta Becker.....*Lecturer in Dietetics*
B.S., in Ed., University of Kansas, 1937.
- Estelle Claiborne.....*Lecturer in Hospital Administration*
F.A.C.H.A.
- Glynn E. Clark.....*Lecturer in Occupational Therapy*
A.B., Washington University, 1934; A.M., 1935.
- William W. Crowds.....*Lecturer in Medical Jurisprudence*
LL.B., Washington University, 1922.
- Edgar Van Norman Emery.....*Lecturer in Psychiatry*
M.B., University of Toronto, 1911; M.D., 1931.
- Mary L. Hemmy.....*Lecturer in Medical Social Work*
B.S., University of Minnesota, 1936; M.A., 1941.
- Grace Huey.....*Lecturer in Hospital Administration*
R.N., Washington University, 1938.
- Florence Ellen King.....*Lecturer in Hospital Administration*
- Cornelia S. Knowles.....*Lecturer in Hospital Administration*
R.N., Washington University, 1925.
- Jesse B. Lasater.....*Lecturer in Vital Statistics*
- Curtis H. Lohr.....*Lecturer in Hospital Administration*
B.S., Washington University, 1920; M.D., 1922.
- Maynard W. Martin.....*Lecturer in Hospital Administration*
B.S., Mount Union College, 1925; M.D., Western Reserve University, 1930.
- Harry J. Mohler.....*Lecturer in Hospital Administration*
- Martha Spencer.....*Lecturer in Hospital Administration*
A.B., Lindenwood College, 1941.

- Crofford Oliver Vermillion.....*Lecturer in Hospital Administration*
A.B., DePauw University, 1939; M.D., Washington University, 1947.
- Elmer P. Wheeler.....*Lecturer in Industrial Hygiene*
B.S. in Chemistry, University of New Hampshire, 1936.
- Joseph C. Willett.....*Lecturer in Public Health*
D.V.M., United States Veterinary College, 1920.

FELLOWS

- Robin G. Anderson.....*Fellow in Plastic Surgery*
A.B., Princeton University, 1939; M.D., Harvard University, 1943.
- Seth Barnes¹.....*Fellow in Dermatology*
M.D., University of Tennessee, 1935.
- John R. Beem.....*Fellow in General Medicine*
B.S., Northwestern University, 1942; M.D., Medical College of Virginia, 1945.
- Ralph Berg, Jr.....*Fellow in General Surgery*
B.S., State College of Washington, 1943; M.D., Washington University, 1945.
- John W. Berry.....*Life Insurance Medical Research Fellow in Infectious Diseases*
B.S., University of Toledo, 1943; M.D., St. Louis University, 1946.
- Harrison Black.....*Fellow in Thoracic Surgery*
A.B., Princeton University, 1940; M.D., Harvard University, 1943.
- David H. Brown¹.....*Merck Postdoctoral Fellow in Biological Chemistry*
B.S., California Institute of Technology, 1942; Ph.D., 1948.
- Theodore J. Capeci².....*Fellow in General Surgery*
M.D., Columbia University, 1948.
- W. Smoot Carter¹.....*Fellow in Dermatology*
M.D., Medical College of Virginia, 1943.
- Arthur Chapman.....*Fellow in Psychiatry*
B.S., Yale University, 1944; M.D., 1947.
- Margaret Helen Clare.....*Fellow in Neurophysiology*
B.S. in Education, Southwest Missouri State College, 1940.
- Edmund V. Cowdry, Jr.....*Fellow in Psychiatry*
A.B., Princeton University, 1942; M.D., Washington University, 1945.
- Angelo P. Creticos.....*Fellow in General Medicine*
B.S., College of Charleston, 1942; M.D., Medical College of the State of South Carolina, 1946.
- Arnold Dankner.....*Research Fellow in Allergy*
M.D., Washington University, 1947.
- Banyen Davibhadhana.....*Fellow in Anatomy*
M.B., Chulalongkorn University (Siam), 1929.

¹ July 1 to September 30, 1950.² On leave of absence.

- Albert Eisenstein.....*Research Fellow in Nutrition*
A.B., University of Missouri, 1941; M.D., Washington University, 1944.
- James O. Elam.....*Fellow in Anesthesiology*
A.B., University of Texas, 1942; M.D., Johns Hopkins University, 1945.
- William M. Enright¹.....*U. S. Navy Fellow in Dermatology*
M.D., McGill University, 1940.
- Alonza Lewis Farr.....*Research Fellow in Metabolism*
B.S., Millsaps College, 1941; M.D., Washington University, 1947.
- Cesar Fernandez².....*Kellogg Foundation Fellow in Otolaryngology*
M.D., University of Chile, 1936.
- Thomas J. Fitzpatrick.....*Fellow in General Medicine*
B.S., University of Missouri, 1943; M.D., Washington University, 1945.
- Sam Frankel.....*Fellow in Cancer Research*
B.S., Southern Illinois University, 1946.
- James G. Gabbard.....*Fellow in Thoracic Surgery*
M.D., University of Texas, 1948.
- Ralph V. Gieselman.....*Fellow in Gastroenterology*
M.D., Washington University, 1947.
- John Glover³.....*Commonwealth Fund Fellow in Radiology*
M.Sc., Queens University (Belfast), 1941; Ph.D., University of Liverpool, 1947.
- Sidney Goldring.....*Fellow in Neurology*
M.D., Washington University, 1947.
- D. Wells Goodrich, Jr.....*Fellow in Psychiatry*
M.D., Harvard University, 1947.
- Gregory C. Gressel.....*Fellow in Psychiatry*
B.S., Xavier University, 1943; M.D., University of Cincinnati, 1946.
- Marvin Henry Grody.....*Fellow in Obstetrics and Gynecology*
B.A., University of Pennsylvania, 1943; M.D., 1946.
- Samuel B. Guze.....*Fellow in Psychiatry*
M.D., Washington University, 1945.
- William J. Harrington.....*Fellow in Hematology and National
Cancer Institute Trainee in Medicine*
M.D., Tufts University, 1947.
- Leopold Hofstatter.....*Research Fellow in Neuropsychiatry*
M.D., University of Vienna, 1926.
- J. W. Hollingsworth.....*Fellow in Hematology and National
Cancer Institute Trainee in Medicine*
M.D., Duke University, 1947.

¹ July 1 to September 30, 1950.

² July 1 to August 31, 1950.

³ July 1 to December 31, 1950.

- William Edward Hunt.....*Fellow in Neurosurgery*
A.B., Ohio State University, 1943; M.D., 1945.
- Anne Fulcher Hunter.....*Fellow in Pediatric Psychiatry*
B.A., University of Wisconsin, 1937; M.D., Johns Hopkins University, 1941.
- Hal B. Jennings.....*Fellow in Plastic Surgery*
M.D., University of Michigan, 1941.
- Robert Jim.....*Fellow in General Medicine*
B.S., University of Chicago, 1945; M.D., 1948.
- Cedric C. Johnson.....*Fellow in Obstetrics and Gynecology*
M.D., University of Nebraska, 1943.
- Robert B. King.....*Fellow in Neurological Surgery*
M.D., University of Rochester, 1946.
- Frederick William Klinge.....*Fellow in General Surgery*
A.B., University of Missouri, 1938; M.D., Washington University, 1942.
- Robert L. Lam.....*Fellow in Neurology*
A.B., University of Michigan, 1941; M.D., 1944.
- Wanda Lamb.....*Fellow in Psychiatry*
B.S. in Medicine, University of Missouri, 1946; M.D., Washington University, 1948.
- Elfred H. Lampe.....*Fellow in Obstetrics and Gynecology*
B.S. in Medicine, University of Missouri, 1946; M.D., Washington University 1948.
- William M. Landau.....*Fellow in Neurology*
M.D., Washington University, 1947.
- Joseph Lerner.....*National Institute of Health and Life Insurance
Medical Research Fellow in Biological Chemistry*
M.D., Columbia University, 1945.
- Virgil Loeb, Jr.....*Research Fellow in Hematology*
M.D., Washington University, 1944.
- James O. Lottes.....*Fellow in Orthopedic Surgery*
B.S. in Medicine, University of Missouri, 1935; M.D., University of Louisville, 1937.
- Sumner N. Marder.....*American Cancer Society Fellow in Radiology*
A.B., Harvard University, 1943; M.D., Yale University, 1947.
- John I. Matthews.....*Fellow in Gastroenterology*
M.D., Wayne University, 1943.
- William P. McCann.....*Life Insurance Medical Research
Fellow in Pharmacology*
M.D., Cornell University, 1949.
- John D. Morrow.....*Fellow in General Medicine*
M.D., University of Western Ontario, 1946.
- Donald L. Opdyke.....*Research Fellow in Anatomy*
M.A., University of Colorado, 1949.

- James W. Owen, Jr.....*Fellow in Cardiology*
M.D., Washington University, 1946.
- Charles R. Park.....*Welch Fellow in Medicine*
A.B., Harvard University, 1937; M.D., Johns Hopkins University, 1941.
- Ann De Huff Peters.....*Fellow in Neuropsychiatry and in
Preventive Medicine*
A.B., University of New Mexico, 1936; B.S., Simmons College, 1937; M.S., 1938;
M.D., Washington University, 1946.
- Richard M. Peters.....*Fellow in Thoracic Surgery*
B.S., Yale University, 1943; M.D., 1945.
- Edwin F. Price, Jr.....*Fellow in Psychiatry*
A.B., University of Kansas, 1942; M.D., 1945.
- Peter Randall.....*Fellow in Plastic Surgery*
M.D., Johns Hopkins University, 1946.
- Fevzi Renda.....*Fellow in Hematology*
M.D., University of Istanbul, 1945.
- Eli Robins.....*United States Public Health Service Fellow in
Psychiatry and in Pharmacology*
B.A., Rice Institute, 1940; M.D., Harvard University, 1943.
- Robert M. Ruch.....*Fellow in Obstetrics and Gynecology*
A.B., Princeton University, 1944; M.D., University of Pennsylvania, 1947.
- Shirley J. Schaffer.....*Fellow in Psychiatry*
B.A., University of Wisconsin, 1943; M.D., Washington University, 1947.
- James Louis Shricker, Jr.....*Fellow in Neurosurgery*
A.B., University of Utah, 1939; M.D., Washington University, 1943.
- Alfred I. Sherman.....*Fellow in Obstetrics and Gynecology*
M.D., University of Toronto, 1944.
- Arthur H. Stein, Jr.....*Fellow in Orthopedic Surgery*
A.B., Amherst College, 1945; M.D., Washington University, 1948.
- Philip H. Starr.....*Fellow in Psychiatry*
M.D., University of Toronto, 1944.
- Robert W. Stevens.....*Fellow in Obstetrics and Gynecology*
M.D., St. Louis University, 1936.
- David W. Talmage.....*U. S. Public Health Service Fellow in Pathology*
B.S., Davidson College, 1941; M.D., Washington University, 1944.
- Pradit Tansurat.....*Fellow in Pathology (Government of Siam)*
M.B., University of Chulalongkorn (Siam), 1935; M.D., 1945.
- Lloyd W. Taylor.....*U. S. Army Fellow in Orthopedic Surgery*
M.D., University of Oklahoma, 1941.
- Humbert Torloni.....*Fellow in Pathology (Cancer Society of Sao Paulo)*
M.D., University of Sao Paulo (Brazil), 1948.

- Samuel A. Trufant III¹.....*United States Public Health Service
Fellow in Neurology*
M.D., Tulane University, 1943.
- Chan-nam Tze.....*Fellow in Obstetrics and Gynecology*
M.D., University of Paris, 1949.
- Andrew H. Veldhuis.....*Fellow in Obstetrics and Gynecology*
A.B., Hope College, 1943; M.D., Johns Hopkins University, 1947.
- Conrad R. Walters.....*Fellow in Obstetrics and Gynecology*
A.B., Vanderbilt University, 1943; M.D., 1947.
- Hugh R. Waters.....*Research Fellow in Cardiology*
B.S., Northwestern University, 1942; M.D., 1945.
- James Weaver.....*Fellow in Cancer Research*
B.S., Northwestern University, 1945; M.D., 1948.
- James C. Wegner.....*U. S. Army Fellow in Surgical Pathology*
M.D., University of Wisconsin, 1947.
- Byron S. Wenger.....*United States Public Health Service Fellow
in Pharmacology*
B.S., University of Wyoming, 1940; M.S., 1941; Ph.D., Washington University,
1949.
- Richard K. Winkelmann.....*Research Fellow in Anatomy*
B.S., University of Akron, 1947; M.D., Marquette University, 1948.

¹ July 1 to August 31, 1950.

OFFICERS AND COMMITTEES OF THE FACULTY OF THE
SCHOOL OF MEDICINE

EXECUTIVE FACULTY

Arthur Holly Compton, *Bridge Chancellor*Edward K. Graham, *Dean of Faculties*Robert A. Moore, *Dean*

Philip A. Shaffer

Evarts A. Graham

Jacques J. Bronfenbrenner

Carl F. Cori

Lawrence T. Post

Alexis F. Hartmann

Willard M. Allen

Theodore E. Walsh

W. Barry Wood, Jr.

Edwin F. Gildea

Frank R. Bradley

H. Lester White

Oliver H. Lowry

Robert E. Shank

Hugh M. Wilson

Edward W. Dempsey

GENERAL FACULTY

The General Faculty is composed of members of the staff holding appointment as Professor, Associate, or Assistant Professor.

STANDING COMMITTEES¹

MEDICAL EDUCATION

W. Barry Wood (Chairman), Willard M. Allen, Carl F. Cori, Oliver Lowry, Henry G. Schwartz, Robert A. Moore.

LIBRARY

Carl F. Cori (Chairman), Gustave Dammin, Robert Elman, Helen T. Graham, Carl Harford, James O'Leary.

ADMISSIONS AND SCHOLARSHIPS

Robert A. Moore (Chairman), Thomas H. Hunter, Robert I. Watson, W. B. Parker (Secretary).

PROMOTIONS

Alexis F. Hartmann (Chairman), Carl F. Cori, Evarts A. Graham, Carl V. Moore, W. B. Parker (Secretary).

¹ The Dean is ex officio a member of all standing committees.

OTHER OFFICERS OF THE SCHOOL OF MEDICINE

Albert I. Mendeloff, M.D., M.P.H.....	<i>Physician in Charge of Student Health Service at the Medical Center</i>
Marion A. Murphy, B.A., B.S.....	<i>Librarian (School of Medicine)</i>
Helen Kaiser.....	<i>Administrative Assistant to the Dean</i>
Louise Jacoby, A.B.....	<i>Administrative Secretary to the Dean</i>
Betty Jo Case, B.J.....	<i>Administrative Secretary to the Dean</i>

STAFF OF AFFILIATED HOSPITALS

THE MEDICAL CENTER

Barnes Hospital, St. Louis Children's Hospital, St. Louis
Maternity Hospital, and McMillan Hospital

JOINT MEDICAL BOARD

Frank R. Bradley.....	<i>Chairman</i>
Willard M. Allen	Louise Knapp
A. Norman Arneson	Robert A. Moore
Estelle D. Claiborne	Lawrence T. Post
Edwin F. Gildea	Dalton K. Rose
Evarts A. Graham	Theodore E. Walsh
Alexis F. Hartmann	Hugh M. Wilson
Stanley Harrison	W. Barry Wood, Jr.

THE BARNES HOSPITAL

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Grace Huey, R.N.....	<i>Associate Director—Maternity</i>
Harry Panhorst, A.B., B.S.....	<i>Associate Director—Clinics</i>
Crofford Vermillion, M.D.....	<i>Associate Director—Barnes</i>
E. H. Perry, M.D.....	<i>Personnel Physician</i>
Arthur Coltrin	<i>Administrative Resident</i>
Evangelos Rizos.....	<i>Administrative Resident</i>
Mildred Bradbury, R.N.....	<i>Executive Assistant—Barnes</i>
Dee Scheer, R.N.....	<i>Executive Assistant—Maternity</i>
Mildred White, R.N.....	<i>Executive Assistant—McMillan</i>
Jane Washburn, R.N.....	<i>Executive Assistant—Barnes</i>
Theresa Roberts, R.N.....	<i>Executive Assistant—Barnes</i>
Dorothy Pappas.....	<i>Social Worker</i>
Earl L. Rapp	<i>Intern</i>
Mary Crooks.....	<i>Intern</i>

MEDICINE

W. Barry Wood, Jr.....	<i>Physician-in-Chief</i>
Harry L. Alexander.....	<i>Associate Physician</i>
Carl V. Moore.....	<i>Associate Physician</i>
Robert Shank.....	<i>Associate Physician</i>

Assistant Physicians

Walter Fischel	Carl Harford
Jerome E. Cook	Bruce Kenamore
William H. Olmsted	Ben H. Charles
Drew W. Luten	Sim Beam
Charles H. Eyermann	John Seddon
Warren P. Elmer	Edward Massie
Lawrence D. Thompson	Joseph C. Edwards
Alfred Goldman	John R. Smith
Samuel B. Grant	Kurt Mansbacher
Arthur E. Strauss	John Horner
Anthony Day	Robert Kelley
Llewellyn Sale, Sr.	Robert W. Elliott
Harold A. Bulger	Raymond F. Holden
John V. Lawrence	Stanley Hampton
William G. Becke	John H. Wedig
Hiram S. Liggett	Arthur C. Brooks
Oliver Abel, Jr.	Ray Williams
Harry W. Wiese	Harold Scheff
William B. Kountz	Michael Karl
C. Malone Stroud	Edward Reinhard
Charles Duden	Harold K. Roberts
J. Ted Jean	Herman J. Rosenfeld
Louis F. Aitken	Richard Maxwell
Karl Koenig	Llewellyn Sale, Jr.
Lee B. Harrison	Herman Erlanger
Milton Smith	Robert Kingsland
Cecil M. Charles	Gustave J. Dammin
Leon Bromberg	Henry A. Schroeder
Edward Cannady	Cyril M. MacBryde
Barrett Taussig	Melvin Kirstein
Leo Gottlieb	Walter Baumgarten
David Skilling	David Kerr
B. Y. Glassberg	Thomas Hunter
Keith Wilson	John Esben Kirk
Paul Hagemann	Alfred Fleishman
Harry Agress	Robert M. Smith
Truman Drake	Joseph Noah

I. J. Flance	Herbert C. Weigand
Julius Elson	Robert J. Glaser
Franz U. Steinberg	John C. Tinsley
Grace Bergner	George X. Trimble
Samuel Bukantz	Robert Paine
Albert I. Mendeloff	Bernard Bercu
Ernest T. Rouse	

Voluntary Assistant Physicians

Melvin Goldman	Samuel Schechter
Burton Shatz	

Voluntary Assistants (Fellows)

John R. Beem	J. W. Hollingsworth
John W. Berry	Robert Jim
Angelo P. Creticos	Virgil Loeb, Jr.
Arnold Dankner	John I. Matthews
Albert Eisenstein	John D. Morrow
Alonza L. Farr	James W. Owen, Jr.
Thomas J. Fitzpatrick	Fevzi Renda
Ralph V. Gieselman	David W. Talmage
William J. Harrington	Hugh R. Waters

*House Staff—1950-51**Resident on Ward Service*

William D. Perry

Assistant Residents on Ward Service

Frederick W. Dowda	Stanley N. Rokaw
Bernard T. Garfinkel	Ross B. Sommer
David M. Lieberman	John K. Spitznagel

Interns on Ward Service

Elisha Atkins	Carl Robert Honig
Thomas Ciampa	Robert E. Hyatt
Carolyn Diehl	Harry N. Iticovici
Daikichi Hata	William E. Magee

John H. Walters

Resident on Private Service

Bruce T. Forsyth

Assistant Residents on Private Service

Leonard Berg	Marvin Rosecan
Norman P. Knowlton, Jr.	Charles M. Ross
John B. Shapleigh II	

Interns on Private Service

Donald Finger	Ruth C. Steinkamp
Richard M. Freidenberg	John G. Wells
Harold J. Joseph	Howard L. Wibbels
Dorothy L. Reycroft	Paul H. Wornom

SURGERY

Evarts A. Graham.....	<i>Surgeon-in-Chief</i>
J. Albert Key.....	<i>Associate Surgeon</i>
Dalton K. Rose.....	<i>Associate Surgeon</i>
Henry G. Schwartz.....	<i>Associate Surgeon</i>
J. Barrett Brown	<i>Associate Surgeon</i>
Ernest Sachs.....	<i>Associate Surgeon</i>
Vilray P. Blair.....	<i>Associate Surgeon</i>

Assistant Surgeons

Arthur O. Fisher	O. P. Hampton
Glover H. Copher	H. L. Thieme
J. Hoy Sanford	Stanley Leydig
Rogers Deakin	Justin Cordonnier
Duff S. Allen	Frank McDowell
Frederick A. Jostes	J. G. Probststein
Theodore P. Brookes	Carl Wattenberg
Robert Elman	Heinz Haffner
Henry S. Brookes	Carl Lischer
Clarence H. Crego	Charles Eckert
Franklin E. Walton	Leon Fox
Peter Heinbecker	Thomas Burford
Leonard T. Furlow	Cyril J. Costello
John Patton	Fred Reynolds
Robert W. Bartlett	George Roulhac
Louis T. Byars	Richard T. Odell
H. R. McCarroll	Minot P. Fryer
Eugene Bricker	Vilray P. Blair, Jr.
Maurice B. Roche	Robert K. Royce

Voluntary Assistant G. U. Surgeons

Carl J. Althaus	K. O. Wilson
Harry Cutler	William H. West
Jules H. Kopp	J. Byron Beare

Voluntary Assistant Orthopedic Surgeons

Lee T. Ford

Ernest Holscher

Voluntary Assistants (Fellows)

Robin Anderson.....	Plastic Surgery
Ralph Berg, Jr.....	General Surgery
Martin Bergmann.....	Thoracic Surgery
Theodore Capeci.....	General Surgery
James O. Elam.....	Anesthesiology
James C. Gabbard.....	Thoracic Surgery
William E. Hunt.....	Neurosurgery
Hal B. Jennings.....	Plastic Surgery
Robert B. King.....	Neurosurgery
Frederick W. Klinge.....	General Surgery
James O. Lottes.....	Orthopedic Surgery
Richard M. Peters.....	Thoracic Surgery
Peter Randall.....	Plastic Surgery
James L. Schricker, Jr.....	Neurosurgery
Arthur H. Stein, Jr.....	Orthopedic Surgery

*House Staff—1950-51**Residents*

Richard A. Lemmer.....	Surgery
C. Barber Mueller.....	Surgery
Thomas R. Hinchey.....	Neurosurgery
Robert Ramsey.....	Orthopedics
James T. Chamness.....	Plastic Surgery
Richard W. Yore.....	Thoracic Surgery
William B. Wall, Jr.....	Genitourinary

Assistant Residents

Carey N. Barry	Lawrence W. O'Neal
Edward J. Bishop	Mather Pfeiffenburger, Jr.
John W. Bassett	Arthur A. Porporis
Harvey R. Bernard	Charles A. Ross, Jr.
Henry W. Bopp, Jr.	Harrison H. Shoulders, Jr.
Harry W. Fischer	Richard G. Sisson
Fleming B. Harper	Hugh E. Stephenson, Jr.
Earl P. Holt, Jr.	Willard B. Walker
John F. Neville	Watts R. Webb

Interns

Bernard Cooperman	Zelig Herbert Lieberman
Robert Lowell Dame	William T. Newton

Harold Ellis Rhame, Jr.
 Robert P. Shanewise
 Malcolm E. Levenson
 Stanley L. London

Robert H. Lund
 Charles P. McGinty
 John A. Moncrief
 Daniel L. Morgan

PATHOLOGY

Robert A. Moore.....*Pathologist-in-Chief*

Assistant Pathologists

Margaret Smith	Zola Cooper
David Smith	Edward Smith
Gustave J. Dammin	Frank Dixon

Visiting Fellows in Pathologic Anatomy

Pradit Tansurat	Humberto Torloni
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*House Staff—1950-51**Residents in Pathologic Anatomy*

Margaret Carter (7-1-50 to 12-31-50)	Menard Ihnen (1-1-51 to 6-30-51)
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Assistant Residents in Pathologic Anatomy

Menard Ihnen (7-1-50 to 12-31-50)

Dale Schulz	James Roberts
-------------	---------------

Assistant Residents in Clinical Pathology

G. Arminini	Calvin Wegner
Margaret Carter (1-1-51 to 6-30-51)	(7-1-50 to 12-31-50) Vernon Pettit

Assistant Resident in Surgical Pathology

Calvin Wegner (1-1-51 to 6-30-51)

Interns in Pathology

J. D. Wheeler	Richard Swarm
	Fred T. Caldwell

CENTRAL LABORATORIES

(Clinical Pathology)

Gustave Dammin	<i>Director</i>
John Hobbs	Charles Eckert

SURGICAL PATHOLOGY

Lauren V. Ackerman.....*Surgical Pathologist*

RADIOLOGY

Hugh Wilson.....	<i>Radiologist-in-Chief</i>
Sherwood Moore.....	<i>Radiologist-in-Chief Emeritus</i>
Joseph W. Larimore.....	<i>Associate Radiologist</i>
Wendell G. Scott.....	<i>Associate Radiologist</i>
A. Norman Arneson.....	<i>Associate Radiologist</i>

Assistant Radiologists

Oscar Zink	Donald Bottom
Otto H. Grunow	William Seaman

*House Staff—1950-51**Resident*

A. Jack Stacy

Associate Residents

Wesley Fee	Thomas Keely
------------	--------------

Assistant Residents

Richard W. Eells	Hugh R. Harting
Robert S. Lackey	Colby S. Stearns

Interns

Wade H. Shuford	Art Coleman
-----------------	-------------

DERMATOLOGY

Richard S. Weiss	<i>Dermatologist-in-Chief</i>
Martin F. Engman.....	<i>Dermatologist-in-Chief Emeritus</i>

Assistant Dermatologists

A.H. Conrad, Sr.	Clinton W. Lane
William G. Coleman	Irwin Eskeles
Martin F. Engman, Jr.	Adolph H. Conrad, Jr.
James Bagby	

Fellows

Seth Barnes	Thomas Moffatt
William Enright	W. Smoot Carter

PHYSICAL MEDICINE

Sedgwick Mead.....	<i>Chief of Physical Medicine</i>
Gus Furla.....	<i>Resident</i>

DENTISTRY

Otto W. Brandhorst.....	<i>Dentist-in-Chief</i>
B. E. Lischer.....	<i>Dentist-in-Chief Emeritus</i>
James A. Brown.....	<i>Associate Dentist</i>
William B. Spotts.....	<i>Associate Dentist</i>
Edward F. Allen.....	<i>Associate Dentist</i>
LeRoy Peterson.....	<i>Associate Dentist</i>

Assistant Dentists

Lester H. Jasper	William E. Koch, Jr.
Ruth M. Martin	F. G. Baetz
E. C. Brooks	Harold Schreiber
Woodrow O'Brien	Webb B. Gurley
John Bird	Carl Lattner

*House Staff**Intern*

Klye Lee

SPECIAL DEPARTMENTS

Joseph Erlanger, M.D.	<i>Physiologist Emeritus</i>
H. L. White, M.D.	<i>Physiologist</i>
Carl Cori, M.D.	<i>Biochemist</i>
Philip A. Shaffer, Ph.D.	<i>Chemist</i>
Robert J. Terry, M.D.	<i>Anthropologist Emeritus</i>
Edmund V. Cowdry, Ph.D.	<i>Anthropologist</i>
Hiromu Tsuchiya, Sc.D.	<i>Parasitologist</i>
Morris Moore, Ph.D.	<i>Mycologist</i>
George H. Bishop, Ph.D.	<i>Biophysicist</i>
J. J. Bronfenbrenner, Ph.D.	<i>Bacteriologist</i>
Oliver Lowry, Ph.D., M.D.	<i>Pharmacologist</i>
W. B. Parker, A.B.	

ST. LOUIS MATERNITY AND BARNES HOSPITAL

OBSTETRICS AND GYNECOLOGY

Willard Allen.....	<i>Obstetrician and Gynecologist-in-Chief</i>
Henry S. Crossen.....	<i>Consultant in Obstetrics and Gynecology</i>
Grandison D. Royston.....	<i>Consultant in Obstetrics and Gynecology</i>
Otto H. Schwarz.....	<i>Associate Obstetrician and Gynecologist</i>
T. K. Brown.....	<i>Associate Obstetrician and Gynecologist</i>
A. Norman Arneson.....	<i>Associate Obstetrician and Gynecologist</i>
John E. Hobbs.....	<i>Associate Obstetrician and Gynecologist</i>

Assistant Obstetricians and Gynecologists

Myron W. Davis	Helman C. Wasserman
Franz Arzt	George J. L. Wulff
Carl Wegner	Herman Hutto
Samuel D. Soule	Arthur Bortnick
Willard Scrivner	David Rothman
Charles O'Keefe	Milton Meyerhardt
Frank P. McNalley	Leslie E. Patton
Adolph C. Schlossstein	Paul Max
Otto S. Krebs	Arthur T. Esslinger
Richard Paddock	William D. Hawker
Robert J. Crossen	Seymour Monat
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Kevin C. Morrin	William Berman
Frances H. Stewart	Bryce H. Bondurant
Francis Canepa	Arthur R. Sudholt

Ralph B. Woolf

Voluntary Assistants (Fellows)

Marvin H. Grody	Alfred I. Sherman
Cedric C. Johnson	Robert Stevens
Elfred H. Lampe	Andrew H. Veldhuis
Robert M. Ruch	Conrad R. Walters

House Staff—1950-51

Carl T. Woolsey.....	<i>Resident Gynecologist</i>
Arthur L. Haskins.....	<i>Resident Obstetrician</i>

Associate Residents

Frank B. Long	Wallace R. Stacey
John L. Cockrell	

Assistant Residents

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Dorothy T. Magallon	MacDonald Bonebrake

Interns

Alexander G. Gabriels	John J. McDonald
Albert Goldhar	John M. Ohtani
Franklin S. Kincheloe	Grace Marie Waldrop
Justin F. Kraner	Tze Chan-Nam

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Jean Valjean Cooke	Harry Lawler (courtesy)
Adrien Bleyer	Sol Londe
Helen M. Aff	Maurice J. Lonsway
Joseph A. Bauer	John Martz (courtesy)
C. Read Boles (courtesy)	Herbert A. Mazur
Martin Calodney (courtesy)	(courtesy)
Dorothy Case	David McClure (courtesy)
Max Deutsch	Helen Nash (courtesy)
Gilbert B. Forbes	Miriam M. Pennoyer
David Goldring	(courtesy)
Samuel Gollub	Edith Robinson
Leo Gowen (courtesy)	Edwin H. Rohlfing
Gene Grabau (courtesy)	Wayne A. Rupe
Norman Hankin (courtesy)	Alfred S. Schwartz
Stanley Harrison	Bernard Swartzman
Anne F. Hunter (courtesy)	Don Thurston
Frederick A. Jacobs	Jean Holowach Thurston
Joseph C. Jaudon	Harry Ewing Wachter
Dorothy J. Jones	Park J. White
William Klingberg	Frank Wissmath (courtesy)
Paul J. Zentay	

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M. Hayward Post.....	<i>Associate Ophthalmologist</i>

Assistant Ophthalmologists

F. E. Woodruff	Ruth Freedman
Frederick O. Schwartz	S. Albert Hanser
Bennett Y. Alvis	Philip Shahan
William M. James	Daniel Bisno
H. R. Hildreth	E. B. Alvis
Carl C. Beisbarth	Harry Rosenbaum
Adolph C. Lange	James Bryan
T. E. Sanders	Richard G. Scobee
William H. Meinberg	Paul W. Miles
Benjamin Milder	Harold Beasley

David Freeman

*House Staff—1950-51**Residents*

Richard L. Thomas (7-1 to 7-31-1950)

James H. Scruggs (8-1 to 12-31-1950)

Stanley M. Truhlsen (1-1 to 5-31-1951)

Assistant Residents

James H. Scruggs (7-1 to 7-31-1950)	Arthur W. Stickle
Stanley M. Truhlsen (7-1 to 12-31-1950)	John W. Sneed
Justin L. Sleight	John L. Power
	Paul H. Ripple
	Eugene T. Standley

OTOLARYNGOLOGY

Theodore E. Walsh*Otolaryngologist-in-Chief**Assistant Otolaryngologists*

Millard Arbuckle	Fred W. Scherrer
Harry W. Lyman	A. C. Stutsman
Arthur W. Proetz	L. W. Dean, Jr.
Arthur M. Alden	H. M. Smit
French K. Hansel	Guerdan Hardy
James B. Costen	William T. K. Bryan
Allen Potter	Ben H. Senturia
Isaac D. Kelley	Edward H. Lyman
Alfred J. Cone	Harold Cutler
Robert Votaw	Morris Davidson
Harry N. Glick	Daniel Klaff
Helen Gage	Joseph Ogura

Fellow

Cesar Fernandez

*House Staff—1950-51**Residents*

Joseph W. West

Robert M. Hazen

Assistant Residents

Landon H. Gurnee

Jack L. Turner

Sadab Dhiraputra

Sanford C. Snyderman

Gumaro Serrano

Charles Watkins

CONSULTANTS IN PEDIATRICS TO OPHTHALMOLOGY AND
OTOLARYNGOLOGY

Alexis F. Hartmann

Kenneth Koerner (courtesy)

Borden S. Veeder

Marianne Kuttner

Jean Valjean Cooke

Harry Lawler (courtesy)

Adrien Bleyer

Sol Londe

Helen M. Aff

Maurice J. Lonsway

Joseph A. Bauer

John Martz (courtesy)

C. Read Boles (courtesy)

Herbert A. Mazur

Martin Calodney (courtesy)

(courtesy)

Dorothy Case

David McClure (courtesy)

Max Deutch

Helen Nash (courtesy)

Gilbert B. Forbes

Miriam M. Pennoyer

David Goldring

(courtesy)

Samuel Gollub

Edith Robinson

Leo Gowen (courtesy)

Edwin H. Rohlfing

Gene Grabau (courtesy)

Wayne A. Rupe

Norman Hankin (courtesy)

Alfred S. Schwartz

Stanley Harrison

Bernard Swartzman

Anne F. Hunter (courtesy)

Don Thurston

Frederick A. Jacobs

Jean Holowach Thurston

Joseph C. Jaudon

Harry Ewing Wachter

Dorothy J. Jones

Park J. White

William Klingberg

Frank Wissmath (courtesy)

Paul J. Zentay

NEUROPSYCHIATRY

Edwin F. Gildea.....*Psychiatrist-in-Chief*James L. O'Leary.....*Neurologist-in-Chief*

Assistant Psychiatrists

Paul Kubitschek	Margaret Gildea
Robert M. Bell	George Saslow
Val B. Satterfield	Ernest H. Parsons
Sydney B. Maughs	Robert D. Brookes
Samuel R. Warson	George Ulett
Hyman H. Fingert	Robert Mueller

Psychologist

Robert Watson

Assistant Psychologist

Ivan Mensh

Associate Neurologist

Irwin Levy

Assistant Neurologists

Andrew B. Jones	Archie D. Carr
Joseph Gitt	

Voluntary Assistants

Frank O. Shobe	Warren B. Mills
----------------	-----------------

Voluntary Assistants (Fellows)

Arthur Chapman	Ann De Huff Peters
Edmund V. Cowdry, Jr.	Edwin F. Price
D. Wells Goodrich	Eli Robins
Gregory C. Gressel	Shirley J. Schaffer
Samuel B. Guze	Philip H. Starr
Wanda Lamb	Samuel A. Trufant

*House Staff—1950-51**Residents*

Richard F. Schneider (Psychiatry)	Kenneth D. Michael (Psychiatry)
Robert M. Counts (Psychiatry)	George Winokur (Psychiatry)
Herbert E. Rosenbaum	(Neurology)

Assistant Residents

Nanette Dice	William S. Horowitz
David F. Mendelson	Arthur H. Greditzer
Kathleen Smith	Joseph M. Natterson
Marvin Stein	Patricia O'Neal

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Mrs. Robert Holland.....	<i>Vice-President</i>
Mrs. Henry B. Pflager.....	<i>Recording Secretary</i>
Miss Carlotta Glasgow.....	<i>Treasurer</i>
Mrs. Daniel L. Schlafly.....	<i>Assistant Treasurer</i>

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Kathleen Hayes, R.N.....	<i>Assistant Superintendent</i>
Elizabeth O'Connell, R.N., B.S.M.S.....	<i>Superintendent of Nurses</i>
Marion Barnard, R.N.....	<i>Administrative Assistant</i>
Frances Livingston, R.N.....	<i>Administrative Assistant</i>

PEDIATRICS

Alexis F. Hartmann	<i>Physician-in-Chief</i>
Borden S. Veeder.....	<i>Consulting Physician</i>
Jean V. Cooke.....	<i>Associate Physician</i>
Adrien Bleyer	<i>Associate Physician</i>

Assistant Physicians

Helen M. Aff	Harry E. Wachter
Joseph A. Bauer	Park J. White
Max Deutch	Paul J. Zentay
Gilbert B. Forbes	Kenneth Koerner (courtesy)
Leo Gowen (courtesy)	William G. Klingberg
Stanley L. Harrison	Alfred S. Schwartz
Wayne A. Rupe	Bernard Schwartzman
Harry J. Lawler, (courtesy)	Don Thurston
Sol Londe	Frederick A. Jacobs
Maurice J. Lonsway	Joseph C. Jaudon
David McClure (courtesy)	Dorothy J. Jones
Edwin H. Rohlfing	Paul W. Kubitschek

Marianne Kuttner	Norman Hankin (courtesy)
Samuel Gollub	Jean Holowach Thurston
John C. Martz (courtesy)	Helen E. Nash (courtesy)
David Goldring	Herbert A. Mazur
Martin Calodney (courtesy)	(courtesy)
Gene Graubau (courtesy)	Anne F. Hunter (courtesy)
Read Boles (courtesy)	Miriam M. Pennoyer
Frank Wissmath (courtesy)	(courtesy)

*House Staff—1950-51**Chief Resident*

M. Remsen Behrer

Assistant Residents

George M. Ewing	Lawrence I. Kahn
Kenneth J. Fijan	Bruce H. Marshall
Robert H. Friedman	Floyd B. Merritt
William J. Gallagher, Jr.	J. Neal Middelkamp
Mary B. Gilliland	Stanley H. Schuman

Junior Residents

Luther A. Beazley, Jr.	James W. Hooker
Clifton R. Brooks	Dan G. McNamara
Morton R. Crew	Robert Moore
Frances I. Doyle	Arnold Schuman
Alfred Ellison	Jack J. Schwartz
Marshall B. Greenman	Francis J. Troendle
Joe Bill Hall	Hulda J. Wohltmann

SURGERY

Evarts A. Graham.....*Surgeon-in-Chief**Associate Surgeons*

Vilray P. Blair	Peter Heinbecker
James Barrett Brown	J. Albert Key
Glover H. Copher	Dalton K. Rose
Robert Elman	Henry G. Schwartz

Assistant Surgeons

Duff S. Allen	Cyril J. Costello
Robert W. Bartlett	Clarence H. Crego, Jr.
Eugene Bricker	Rogers Deakin
Thomas Burford	Charles Eckert
Louis T. Byars	Arthur O. Fisher

Leon Fox
 Leonard T. Furlow
 Oscar P. Hampton, Jr.
 Frederick A. Jostes
 Stanley M. Leydig
 Carl Lischer
 H. Relton McCarroll
 Frank McDowell

Richard Odell
 Maurice B. Roche
 J. Hoy Sanford
 Harry L. Thieme
 Franklin E. Walton
 Fred C. Reynolds
 George E. Roulhac
 Minot Fryer

Voluntary Assistants

Carl J. Althaus
 (Genitourinary Surgery)
 Winston H. Vaughan
 (Orthopedic Surgery)
 Harry Cutler
 (Genitourinary Surgery)
 Joseph A. Syslo
 (Genitourinary Surgery)
 Lee Ford, Jr.
 (Orthopedic Surgery)

Harold Feller
 (Genitourinary Surgery)
 Jules H. Kopp
 (Genitourinary Surgery)
 Kenneth O. Wilson
 (Genitourinary Surgery)
 William H. West
 (Genitourinary Surgery)
 Edward C. Holscher
 (Orthopedic Surgery)

OTOLARYNGOLOGY

Theodore E. Walsh.....	Otolaryngologist
Harry W. Lyman.....	Associate Otolaryngologist
Arthur W. Proetz.....	Associate Otolaryngologist

Assistant Otolaryngologists

Arthur M. Alden	I. Dee Kelley, Jr.
Millard F. Arbuckle	Edward H. Lyman
William T. K. Bryan	Allen B. Potter
Alfred J. Cone	Frederick W. Scherrer, Jr.
James B. Costen	Ben H. Senturia
Harold Cutler	Herbert M. Smit
Lee Wallace Dean, Jr.	Albert C. Stutsman
Helen Gage	Robert E. Votaw
Harry N. Glick	Morris Davidson
French K. Hansel	Daniel Klaff
Guerdan Hardy	Joseph H. Ogura

OPHTHALMOLOGY

Lawrence T. Post.....	Ophthalmologist
William F. Hardy.....	Consulting Ophthalmologist
M. Hayward Post.....	Consulting Ophthalmologist
William E. Shahan.....	Consulting Ophthalmologist
Frederick E. Woodruff.....	Consulting Ophthalmologist

Assistant Ophthalmologists

Bennett Y. Alvis	Benjamin Milder
Edmund B. Alvis	Harold D. Rosenbaum
Carl C. Beisbarth	Theodore E. Sanders
James H. Bryan	Frederick O. Schwartz
H. Rommel Hildreth	S. Albert Hanser
William M. James	Robert D. Mattis
Adolph C. Lange	Philip Shahan
William H. Meinberg, Jr.	Paul Miles
Harold Beasley	

DENTISTRY

O. W. Brandhorst.....	<i>Dentist-in-Chief</i>
B. E. Lischer.....	<i>Dentist Emeritus</i>

Assistant Dentists

Roy C. Mallory	F. G. Baetz
Ruth E. Martin	Carl W. Lattner

DERMATOLOGY

Richard S. Weiss.....	<i>Dermatologist-in-Chief</i>
Martin F. Engman.....	<i>Dermatologist Emeritus</i>

Assistant Dermatologists

Adolph H. Conrad	Martin F. Engman, Jr.
Clinton W. Lane	

GYNECOLOGY

Willard M. Allen.....	<i>Gynecologist</i>
Harry S. Crossen.....	<i>Consulting Gynecologist</i>
Grandison D. Royston.....	<i>Consulting Gynecologist</i>
T. K. Brown.....	<i>Associate Gynecologist</i>
Otto H. Schwarz.....	<i>Associate Gynecologist</i>
A. Norman Arneson.....	<i>Associate Gynecologist</i>
John E. Hobbs.....	<i>Associate Gynecologist</i>

Assistant Gynecologists

Robert J. Crossen	Paul Max
William D. Hawker	Charles O'Keefe
John E. Hobbs	William H. Masters
Frank P. McNalley	Charles Gulick
Richard Paddock	William Berman
Carl R. Wegner	Bryce H. Bondurant
Leslie Patton	Alfred R. Sudholt
Ralph B. Woolf	

NEUROPSYCHIATRY

Edwin F. Gildea.....*Psychiatrist-in-Chief*
 James L. O'Leary.....*Consultant in Neurology*

Associate Neurologist

Irwin Levy

Assistant Neurologists

Archie D. Carr	Andrew B. Jones
Joseph J. Gitt	Val B. Satterfield

Assistant Psychiatrists

Robert M. Bell	George A. Ulett
Hyman H. Fingert	Paul W. Kubitschek
Margaret C-L Gildea	Sydney B. Maughs
Robert D. Brookes	Samuel R. Warson

Robert J. Mueller

Consultant in Psychiatry (Psychology)

Robert I. Watson

PATHOLOGY

Robert A. Moore.....*Pathologist*
 Margaret C. Smith.....*Associate Pathologist*

Assistant Pathologists

Gustave Dammin	Zola Cooper
Frank Dixon	Edward B. Smith

Surgical Pathology

Lauren V. Ackerman

RADIOLOGY

Hugh Wilson.....*Radiologist*
 Sherwood Moore.....*Radiologist Emeritus*

Associate Radiologists

A. Norman Arneson	Wendell G. Scott
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Assistant Radiologists

Donald Bottom	Oscar C. Zink
Joseph W. Larimore	Otto H. Grunow
William Seaman	

PHYSICAL MEDICINE

Sedgwick Mead.....*Chief of Physical Medicine*

SPECIAL DEPARTMENTS

Philip A. Shaffer, Ph.D.....*Chemist*
 Carl Cori, M.D.....*Biochemist*
 Anne M. Perley, M.A.....*Assistant Chemist in Metabolism*
 Joseph Erlanger, M.D.....*Physiologist Emeritus*
 H. Lester White, M.D.....*Physiologist*
 Edmund V. Cowdry, Ph.D.....*Anthropologist*
 Jacques J. Bronfenbrenner, Ph.D.....*Bacteriologist*
 Oliver Lowry, Ph.D., M.D.....*Pharmacologist*
 Ruth B. Gerstung, A.B.....*Theron Catlin Fellow*
 Virgil Loeb, M.D., D.D.S.....*Consulting Stomatologist*

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the St. Louis Maternity and the McMillan Hospitals

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 Sim F. Beam
 William G. Becke
 Leon Bromberg
 Harold A. Bulger
 Edward W. Cannady
 Benjamin H. Charles
 Cecil M. Charles
 Jerome E. Cook
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 Samuel B. Grant
 Kendall D. Gregory*
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 Stanley F. Hampton
 Lee B. Harrison
 Raymond F. Holden, Jr.
 John Horner
 Bernard Hulbert*
 J. Ted Jean
 Robert W. Kelley

Bruce D. Kenamore
 Esben Kirk
 Melvin B. Kirstein
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 William B. Kountz
 John V. Lawrence
 Hiram S. Liggett
 Warren Lonergan*
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 Arnold S. Moe*
 Joseph Noah
 Henry W. Noller*
 Llewellyn Sale, Sr.
 Samuel E. Schechter*
 Harold Scheff
 Burton A. Shatz*
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 Milton Smith
 Robert M. Smith
 Arthur E. Strauss
 C. Malone Stroud
 Lawrence D. Thompson
 George X. Trimble
 John H. Wedig
 Harry W. Wiese
 Ray D. Williams

Keith S. Wilson

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 Albert Eisenstein
 A. Lewis Farr
 Thomas J. Fitzpatrick

Ralph V. Gieselman
 William J. Harrington
 J. W. Hollingsworth
 Robert Jim
 John I. Mathews
 John D. Morrow

James W. Owens, Jr.

* Voluntary assistant.

ALLERGY CLINIC

Assistant Physicians

Charles H. Eyermann.....	Chief of Clinic
Stanley F. Hampton	Kurt Mansbacher
John Kennedy*	Joseph Noah
C. Malone Stroud	

Fellow

Arnold Danker

ARTHRITIS CLINIC

Assistant Physicians

Paul O. Hagemann.....	Chief of Clinic
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Robert C. Kingsland	John W. Seddon

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Assistant Physicians

Edward Massie.....	Chief of Clinic
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Drew W. Luten	Henry A. Schroeder
John R. Smith	

Fellows

James W. Owens, Jr.	Hugh Waters
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CHEST

Assistant Physicians

Alfred Goldman.....	Chief of Clinic
Anthony B. Day	David N. Kerr
Axel R. Gronau*	Robert M. Smith

DERMATOLOGY CLINIC

Dermatologist-in-Chief

Richard S. Weiss.....	Chief of Clinic
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Assistant Dermatologists

James W. Bagby	Calvin C. Ellis*
William G. Coleman	Martin F. Engman, Jr.
Adolph H. Conrad, Jr.	Irwin H. Eskeles
Adolph H. Conrad, Sr.	Lawrence K. Halpern*

* Voluntary assistant.

Clinton W. Lane
George Manting*
Morris D. Marcus*

M. H. Scheele*
Eugene P. Weber*
Wilfred E. Wooldridge

Fellows

Seth Barnes
W. Smoot Carter

William N. Enright
Thomas W. Moffatt

DIABETIC AND ENDOCRINE CLINIC

Assistant Physicians

Cyril M. MacBryde.....*Chief of Clinic*

Harold A. Bulger
William H. Daughaday
Truman G. Drake
Harold Freedman*
B. Y. Glassberg

John Kennedy*
Esben Kirk
Kurt Mansbacher
William H. Olmsted
Ray D. Williams

Fellow

A. Lewis Farr

GASTROINTESTINAL CLINIC

Assistant Physicians

Bruce D. Kenamore.....*Chief of Clinic*

Alfred Fleishman
John Horner
Robert W. Kelley
Warren Lonergan*

Richard Maxwell
Albert I. Mendeloff
Samuel E. Schechter*
Harold Scheff

Burton A. Shatz*

Fellows

Ralph V. Gieselman

John I. Matthews

HEMATOLOGY CLINIC

Associate Physician

Carl V. Moore.....*Chief of Clinic*

Assistant Physicians

Robert Lange*

Edward H. Reinhard

John C. Tinsley

Fellows

William J. Harrington

J. W. Hollingsworth

Virgil Loeb, Jr.

* Voluntary assistant.

LIVER CLINIC

*Associate Physician*Robert E. Shank.....*Chief of Clinic**Assistant Physicians*

Gustave J. Dammin

Albert I. Mendeloff

Fellow

Albert Eisenstein

PSYCHOSOMATIC (MEDICINE D) CLINIC

*Assistant Physician*George Saslow.....*Chief of Clinic*

VENEREAL DISEASE CLINIC

*Assistant Physicians*Virgil Scott.....*Chief of Clinic*

Richard Maxwell

John S. Skinner*

Harold K. Roberts

John R. Smith

E. B. Williams*

OBSTETRICS AND GYNECOLOGY CLINIC

Willard M. Allen.....*Obstetrician and Gynecologist-in-Chief**Associate Obstetricians and Gynecologists*

A. Norman Arneson

Frank P. McNalley

William H. Masters

Melvin A. Roblee

Samuel D. Soule

Assistant Obstetricians and Gynecologists

Hubert L. Allen

Milton H. Meyerhardt

William Berman

Seymour Monat

Bryce H. Bondurant

James Pennoyer

Arthur R. Bortnick

David Rothman

Arthur T. Esslinger

Frances H. Stewart

Charles R. Gulick

Willard C. Scrivner

Herman Hutto

Helman C. Wasserman

Paul F. Max

Ralph B. Woolf

* Voluntary assistant.

SURGERY CLINIC

Evarts A. Graham.....*Surgeon-in-Chief*

SURGERY

Assistant Surgeons

Robert Elman.....*Chief of Clinic*

Henry S. Brookes	Heinz Haffner
J. Barrett Brown—Plastic	Fred Klinge
Arthur R. Dalton	Carl E. Lischer
Charles Eckert	Frank McDowell—Plastic
Virgil O. Fish	George E. Roulhac—Neuro
Minot P. Fryer—Plastic	Sam Schneider
Leonard T. Furlow—Neuro	Henry G. Schwartz—Neuro
Henry Schwarz, II	

UROLOGY

Assistant Surgeons

D. K. Rose.....*Chief of Clinic*

Morris Abrams	Andy Hall, Jr.
Lawrence M. Aronberg	Jules H. Kopp
J. Byron Beare	John Patton
Justin Cordonnier	Robert K. Royce
Harry Cutler	Carl Wattenberg
Rogers Deakin	William H. West

ORTHOPEDIC

Assistant Surgeons

J. Albert Key.....*Chief of Clinic*

Vilray P. Blair, Jr.	Frederick A. Jostes
Lee T. Ford, Jr.	Stanley M. Leydig
Leon Fox	Richard Odell
Oscar Hampton	Fred Reynolds
Edward C. Holscher	Maurice B. Roche

OPHTHALMOLOGY CLINIC

Lawrence T. Post.....*Ophthalmologist-in-Chief*

Assistant Ophthalmologists

Bennett Y. Alvis	Carl C. Beisbarth
Edmund B. Alvis	Daniel Bisno
Harold Beasley	James Bryan

Ruth Freedman	Paul W. Miles
David Freeman, Chief of	M. H. Post
Clinic	Harry Rosenbaum
S. Albert Hanser	T. E. Sanders
H. Rommel Hildreth	Frederick O. Schwartz
William M. James	Richard G. Scobee
Adolph C. Lange	Philip Shahan
Benjamin Milder	William E. Shahan
F. E. Woodruff	

OTOLARYNGOLOGY CLINIC

Theodore E. Walsh.....*Otolaryngologist-in-Chief*

Assistant Otolaryngologists

Alfred J. Cone	Edward H. Lyman
James B. Costen	Daniel F. Klaff
L. W. Dean, Jr.	Joseph H. Ogura
Ben Senturia	

PEDIATRIC CLINIC

Alexis F. Hartmann.....*Physician-in-Chief*

Assistant Physicians

Jean V. Cooke.....*Chief of Clinic*

Helen M. Aff	Frederick A. Jacobs
Joseph A. Bauer	William G. Klingberg
C. Read Boles	Kenneth A. Koerner
Martin M. Calodney	Maurice J. Lonsway
Dorothy M. Case	John C. Martz
Max Deutch	Herbert A. Mazur
Gilbert B. Forbes	David M. McClure
David Goldring	Bernard Schwartzman
Samuel Gollub	Don L. Thurston
Leo F. Gowen	Jean Holowach Thurston
Norman Hankin	H. Ewing Wachter
Stanley L. Harrison	Frank S. Wissmath
Paul J. Zentay	

NEUROPSYCHIATRIC CLINIC

Edwin F. Gildea.....*Psychiatrist-in-Chief*

NEUROPSYCHIATRY

Assistant Psychiatrists

Alfred K. Baur	Edwin F. Price, Jr.
Robert Bell	William J. Robinson
Margaret C-L. Gildea	Frank O. Shobe
Alex H. Kaplan	Conrad Sommer
Sydney B. Maughs, Chief of Clinic	Samuel R. Warson
	George A. Ulett

Fellows

Arthur H. Chapman	Kenneth D. Michael
Edmund V. Cowdry, Jr.	Ann D. Peters
Wells Goodrich	Eli Robins
Gregory C. Gressel	Shirley J. Schaffer
Samuel B. Guze	Philip H. Starr
Wanda Lamb	George Winokur

VETERANS MENTAL HYGIENE

Assistant Psychiatrists

Robert M. Bell	Hans B. Molholm
Edward H. Kowert	Jackson C. Neavles
Sydney B. Maughs	Samuel R. Warson

*Neurology*James L. O'Leary.....*Neurologist-in-Chief**Assistant Neurologists*

Robert D. Brookes	Andrew B. Jones
Robert J. Mueller	Samuel A. Trufant III

*Psychology*Robert I. Watson.....*Psychologist**Assistant Psychologists*

Bettye M. Caldwell	James O. Palmer
Evelyn P. Mason	

THE ST. LOUIS CITY HOSPITALS

City Hospital (Max C. Starkloff Memorial), Homer G. Phillips Hospital, Malcolm A. Bliss Psychopathic Hospital, City Sanitarium, City Infirmary, Robert Koch Hospital, Snodgras Laboratory

ADMINISTRATIVE STAFF FOR THE CITY OF ST. LOUIS

Jack O'Toole.....	<i>Director of Public Welfare</i>
Walter E. Hennerich, M.D.....	<i>Hospital Commissioner</i>
Cyril Costello, M.D.....	<i>Medical Director of City Hospital</i>
Walter E. Hennerich, M.D.....	<i>Superintendent of City Hospital</i>
Virgil McKnight.....	<i>Superintendent of Homer G. Phillips Hospital</i>
Warren B. Mills, M.D.....	<i>Medical Director of Malcolm A. Bliss Psychopathic Hospital</i>
Joseph B. Shank.....	<i>Superintendent of City Infirmary</i>
George D. Kettelkamp, M.D.....	<i>Superintendent of Robert E. Koch Hospital</i>
John Saxton, M.D.....	<i>Director of Snodgras Laboratory</i>
Louis Kohler, M.D.....	<i>St. Louis State Hospital</i>

CITY HOSPITAL (MAX STARKLOFF MEMORIAL)

UNIT I—MEDICINE

Barrett Taussig.....*Section Head*

Visiting Physicians

Grace Bergner	Herbert Wiegand
Herman Erlanger	Michael M. Karl
I. J. Flance	David N. Kerr
Leo Gottlieb	Llewellyn Sale, Jr.
Carl G. Harford	Franz U. Steinberg
Walter Baumgarten, Jr.	Melvin S. Goldman
Harold Scheff	Burton A. Shatz

Robert J. Glaser

Consultants

W. Barry Wood.....	<i>Medicine</i>
Carl G. Harford.....	<i>Infectious Diseases</i>
Carl V. Moore.....	<i>Hematology</i>
I. J. Flance.....	<i>Chest</i>
Keith S. Wilson.....	<i>Allergy</i>
Robert W. Kelley.....	<i>Gastroenterology</i>
Grace Bergner.....	<i>Metabolic Diseases</i>

Paul O. Hagemann.....	<i>Arthritis</i>
Herbert Wiegand.....	<i>Hematology</i>
Harold Scheff.....	<i>Gastroenterology</i>
Herman Erlanger.....	<i>Cardiology</i>
Henry A. Schroeder.....	<i>Hypertension</i>

DERMATOLOGY

Visiting Physicians

James Bagby

Eugene Weber

Consultant

Clinton W. Lane

NEUROLOGY

James L. O'Leary.....	<i>Section Head</i>
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Consultants

Joseph Gitt

A. B. Jones

Robert Mueller

(Isolation Division)

PSYCHIATRY

Edwin F. Gildea.....	<i>Section Head</i>
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Visiting Psychiatrists

Edward H. Kowert

Jackson C. Neavles

OBSTETRICS AND GYNECOLOGY

Otto H. Schwarz.....	<i>Section Head</i>
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Visiting Obstetricians and Gynecologists

Arthur T. Esslinger

David Rothman

William D. Hawker

Charles Gulick

James Pennoyer

Consultants

Willard M. Allen

Seymour Monat (Nurses
Health Service)

Otto H. Schwarz

Carl R. Wegner (Toxemias
of Pregnancy)

OPHTHALMOLOGY

Daniel Bisno.....	<i>Section Head</i>
-------------------	---------------------

Visiting Surgeon

Benjamin Milder

Consultant

Lawrence T. Post

OTOLARYNGOLOGY

William T. K. Bryan.....*Section Head**Visiting Surgeons*

Robert E. Votaw

Joseph H. Ogura

Consultant

Theodore E. Walsh

PEDIATRICS

Visiting Physicians

Donald Thurston

William Gene Klingberg

Consultants

Alexis F. Hartmann

Jean V. Cooke

Gilbert B. Forbes

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 J. Costello

Heinz Haffner

Charles Eckert

Carl E. Lischer

Franklin E. Walton

Teaching

Morton Pareira

Consultant

Peter Heinbecker

ORTHOPEDIC SURGERY

Edward Holscher.....*Section Head*

Visiting Surgeons

Oscar P. Hampton
Edward Holscher
Stanley Leydig
Richard T. Odell

Lee T. Ford
David R. Oliver
James O. Lottes
Vilray P. Blair, Jr.

Alex Harell

Consultant

J. Albert Key

UROLOGY

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

Visiting Surgeons

Jules H. Kopp

J. Byron Beare

Consultant

Dalton K. Rose

NEUROSURGERY

Visiting Surgeon

George E. Roulhac

Consultant

Henry G. Schwartz

THORACIC SURGERY

Visiting Surgeon

Thomas Burford

Consultant

Evarts A. Graham

PLASTIC SURGERY

Louis T. Byars.....*Section Head*

Visiting Surgeon

Minot P. Fryer

HOMER G. PHILLIPS HOSPITAL

MEDICINE

Thomas H. Hunter.....*Section Head*

Visiting Physicians

Robert Paine

Warren Lonergan

Consultants

Keith S. Wilson.....*Allergy*
 Paul O. Hagemann.....*Arthritis*
 Robert Paine.....*Cardiology*
 Alfred Goldman.....*Chest Diseases*
 Irwin H. Eskeles.....*Dermatology*
 Burton A. Shatz.....*Gastroenterology*
 John C. Tinsley.....*Hematology*
 Carl G. Harford.....*Infectious Diseases*
 Ray D. Williams.....*Metabolism*
 Melvin Goldman.....*Hypertension*

NEUROLOGY AND PSYCHIATRY

Edwin F. Gildea.....*Section Head in Psychiatry*
 James L. O'Leary.....*Section Head in Neurology*

Consultant

H. H. Fingert (Psychiatry)

OBSTETRICS AND GYNECOLOGY

Kevin C. Morrin.....*Section Head*

Visiting Obstetricians and Gynecologists

Arthur R. Bortnick

Helman C. Wasserman

George J. L. Wulff, Jr.

Consultants

Willard M. Allen

Otto H. Schwarz

T. K. Brown

Carl R. Wegner (Toxemias
of Pregnancy)

OPHTHALMOLOGY

Visiting Surgeons

E. B. Alvis

S. Albert Hanser

James Bryan

Benjamin Milder

Ruth Freedman

Paul W. Miles

Lawrence T. Post
M. Hayward Post
Harry Rosenbaum

Frederick O. Schwartz
Richard G. Scobee
Philip T. Shahan

OTOLARYNGOLOGY

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Visiting Surgeon

Morris Davidson

Consultant

Theodore E. Walsh

PEDIATRICS

Park J. White.....*Section Head*

Visiting Physicians

E. Ewing Wachter

Harry J. Lawler

Gene Grabau

Consultant

Alexis F. Hartmann

SURGERY

Robert Elman.....*Section Head*

Visiting Surgeons

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J. G. Probststein

(Plastic Surgery)

Leo A. Sachar

Frank McDowell

Sam Schneider

(Plastic Surgery)

Dominic J. Verda

Sedgwick Mead

Morris Abrams

(Physical Therapy)

Consultant

Evarts A. Graham

NEUROLOGICAL SURGERY

Henry G. Schwartz.....*Section Head*

Visiting Surgeon

George Roulhac

ORTHOPEDIC SURGERY

Visiting Surgeons

Leon Fox
Lee T. Ford
James O. Lottes

Richard T. Odell
Harry L. Thieme
Vilray P. Blair, Jr.

Alex Harell

Consultant

J. Albert Key

UROLOGY

Carl Wattenberg.....*Section Head*

Visiting Surgeon

Harry Cutler

Consultant

Dalton K. Rose

PATHOLOGY

Consultant

Lauren Ackerman

MALCOLM A. BLISS PSYCHOPATHIC HOSPITAL

Edwin F. Gildea.....*Section Head in Psychiatry*

James L. O'Leary.....*Section Head in Neurology*

Consultants

Joseph Gitt*Psychiatry*

Robert D. Brookes*Psychiatry*

Visiting Physician

William J. Robinson.....*Psychiatry*

Edward H. Kowert.....*Psychiatry*

Jackson C. Neavles.....*Psychiatry*

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. 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 Institute of Radiology, 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.

With the reorganization of the Veterans Administration, Washington University and St. Louis University assumed responsibility for the professional services in the Veterans Hospital at Jefferson Barracks.

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 for 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 Edward Mallinckrodt Institute of Radiology, 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 otolaryngology. The Institute also houses research laboratories used temporarily by the departments of internal medicine, and neuropsychiatry.

The Washington University Clinics, housed mainly in the Clinic-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 investiga-

tion — 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 Psychopathic Hospital, and of the Homer Phillips Hospital. The Isolation Hospital (now used for chronic diseases) and the St. Louis State Hospital (for mental diseases) are also used for study and teaching of these subjects.

Instruction is given also in the St. Louis Shriners' Hospital for Crippled Children.

LIBRARY

The Library contains (October 1, 1949) 69,901 bound volumes and receives 821 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 Lectureship 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, Professor Emeritus of Anatomy.

Friends of Dr. Major G. Seelig, Professor Emeritus of Clinical Surgery, and Mrs. Seelig have established an annual lectureship or fellowship in their honor.

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 the 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 premedical 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 preprofessional 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 College Admission Test of the Association of American Medical Colleges.

Applications for admission should be filed as early as possible, preferably by October 1 of the year preceding that in 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.

Preliminary application blanks will be furnished upon request. After supplying all information called for therein, the applicant should return the blank to the Registrar. If the applicant is approved for a full application he should upon receipt of this blank request his college to send directly to the Registrar 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

Applicants 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.

An applicant 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 except under unusual circumstances.

A program of courses for postgraduate 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: Morphology, Neurology, Biochemistry, Physiology.

Second Year: Bacteriology, Pathology, Pharmacology, Medicine, Surgery ($1\frac{1}{2}$).

Third Year: Medicine, Neuropsychiatry, Obstetrics and Gynecology, Surgery, Preventive Medicine.

Fourth Year: Medicine, Obstetrics and Gynecology, Pediatrics, Surgery, Ophthalmology ($1\frac{1}{2}$), Otolaryngology ($1\frac{1}{2}$).

(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) 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.

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

(e) 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 prorata refund of the tuition will be made in such cases.

REQUIREMENTS FOR DEGREES

DOCTOR OF MEDICINE

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

A student who enters the School of Medicine with a minimum of ninety semester hours of work may become a candidate 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. This degree is not available to students entering the School of Medicine after September, 1948.

BACHELOR OF ARTS (COMBINED PROGRAM)

A student who enters the School of Medicine with three years of work in the College of Liberal Arts of Washington University may become a candidate for the Bachelor of Arts degree at the end of the first year in the School of Medicine. Under this combined program he must fulfill the premedical requirements and also the following additional requirements:

- (1) He must have completed a minimum of 90 academic units and 4 units in Military Science and Tactics or Physical Education in the Upper and Lower Divisions.
- (2) He must have completed all specific requirements for the A.B. degree, except that 15 units in advanced courses in not more than three subjects, taken in his junior year, will satisfy a part of the A.B. requirement relative to advanced courses.
- (3) To be eligible for the degree of Bachelor of Arts under the combined plan, students transferring to Washington University must complete at least 30 units of A.B. work in the Upper Division of the College of Liberal Arts at Washington University and must complete all specific requirements for the A.B. degree, with the exception noted in (2) above.
- (4) In addition to completing three years of work in the College, students in the combined program must also complete satisfactorily the required work in the first year in the Washington University School of Medicine; this work will complete the A.B. requirement for an area of concentration.
- (5) Candidates for the A.B. degree under the combined program must be recommended by the Dean of the School of Medicine to the Dean of the College of Liberal Arts.

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 a student confers 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 demonstrated superior scholarship in anatomical work.

2. One prize of fifty dollars is awarded to a member of the graduating class, of high general standing, who has shown especially good scholarship 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 BIOCHEMISTRY PRIZE is awarded at the end of the first year to the member of the class who has demonstrated superior scholarship in biochemical work.

THE PRIZE FUND OF THE MEDICAL FUND SOCIETY:

1. One prize of one hundred dollars is awarded annually to the student of the senior class who shall in the opinion of the faculty have excelled in the study of internal medicine provided, however, that no student shall be eligible for this prize who has not been a bonafide student of medicine in the School of Medicine of Washington University for the full junior and senior years.

2. One prize of one hundred dollars is awarded annually to that student of the senior class who shall in the opinion of the faculty have excelled in the study of surgery provided, however, that no student shall be eligible for this prize who has not been a bonafide student of medicine in the School of Medicine of Washington University for the full junior and senior years.

It is stipulated that no individual shall be eligible for both prizes.

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.

Honor Scholarships are awarded on a regional basis with one or more scholarships being awarded annually to students from each of the following areas:

<i>Western</i>	<i>Rocky Mountain</i>	<i>North Central</i>
California	Arizona	Illinois
Nevada	Colorado	Iowa
Oregon	Idaho	Kansas
Washington	Montana	Minnesota
Alaska	New Mexico	Missouri
Pacific Islands	Utah	Nebraska
	Wyoming	North Dakota
		South Dakota
		Wisconsin

<i>South Central</i>	<i>Southeastern</i>	<i>Northeastern</i>
Alabama	Delaware	Indiana
Arkansas	Florida	Michigan
Kentucky	Georgia	New Jersey
Louisiana	Maryland	New York
Mississippi	North Carolina	Ohio
Oklahoma	South Carolina	Pennsylvania
Tennessee	Virginia	
Texas	West Virginia	<i>New England</i>
Canal Zone	Washington, D. C.	Connecticut
	Puerto Rico	Maine
	Virgin Islands	Massachusetts
		New Hampshire
		Rhode Island
		Vermont

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 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-round 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.

The JACKSON JOHNSON FELLOWSHIPS IN THE PRECLINICAL SCIENCES. 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 Graduate School of Arts and Sciences 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.

The JACKSON JOHNSON RESEARCH FELLOWSHIPS have been established to make it possible for certain students to obtain a year of experience in medical research and to explore their aptitude and interests in research at a time not too far removed from the completion of fundamental college courses in chemistry, physics, and mathematics, or from basic preclinical studies. Any student in the Washington University School of Medicine who has completed the sophomore year is eligible for such a fellowship, which ordinarily provides a stipend of \$1,600 or, if there are dependents \$2,000. Funds are provided for tuition fees if courses are taken in connection with these fellowships. Ordinarily it is expected that the work will be conducted at Washington University, but exceptions may be made. It is anticipated that the fellowships will be taken at the end of the second year, by withdrawing for one year from the medical school, with readmission assured at the end of the year.

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 MEMORIAL FELLOWSHIP with a stipend of \$500 may be awarded for one year to a graduate of the School, preferably a woman, for post-graduate 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 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.

G. H. REINHARDT MEMORIAL SCHOLARSHIP FUND. Through the bequest of the late Mr. G. H. Reinhardt, \$400 is available each year for sophomore students for loans of not more than \$100 to any one student, the loans to be known as Scholarship Loans and to be repaid by the students within five years without interest or other charges. The loans are granted by the Chancellor on the recommendation of the Dean.

THE AUGUST F. HENKE FUND. Through the bequest of the late Mr. August F. Henke, \$200 is available for aid to medical students. The scholarships or loans are granted by the Chancellor on the recommendation of the Dean.

JOSEPH H. SCHARF SCHOLARSHIP. Through the bequest of the late Dr. Joseph H. Scharf, the annual income from \$2,418.72 is available for scholarships for worthy and needy students in the School of Medicine. The scholarships are awarded by the Chancellor on the recommendation of the Dean.

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, 1950-51, is scheduled for Wednesday, September 6 (new students) and Saturday morning, September 9 (former students); for the second half year, Monday, January 29, 1951.

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.

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 \$764.00, payable in two equal installments, at the beginning of the first and second semesters.

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. Those students who remain at school during the summer may make arrangements for continuation of health service. 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, flash-lights, 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.

WITHDRAWALS AND REFUNDS

A student who withdraws within the first two weeks of classes is charged 20% of the tuition fee; a student who withdraws during the third week is held for 40% of the charges; a student who withdraws during the fourth week is held for 60% of the charges; a student who withdraws during the fifth week is held for 80% of the charges. There is no refund of any portion of the tuition fee after the fifth week. No special fees are refundable after the second week of the term.

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.

Tuition	\$764.00
Matriculation Fee (payable once)	5.00
Health Service Fee	36.00
Books and Instruments	\$ 75.00 to 150.00
Room and Board (from \$15.00 to \$20.00 a week)	540.00 to 720.00
<hr/>	
\$1415 to \$1675.00	

MEN'S DORMITORY OF THE SCHOOL OF MEDICINE

A dormitory building containing rooms for about fifty students is situated in the proximity of 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 \$75.00 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 characterizes 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 six 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 twelve 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.

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, clinical diagnosis (see under Medicine) is taught jointly by the Departments of Medicine, Neuropsychiatry, Obstetrics and Gynecology, Ophthalmology, Otolaryngology, Pediatrics and Surgery. 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: Clinical Diagnosis

Applied Pathologic Physiology

Laboratory Methods of Diagnosis

Neuropsychiatry: Introductory Course on the Patient-Physician Relationship

Neurological Examination in Clinical Diagnosis

Obstetrics and Gynecology: Introduction to Obstetrics

Ophthalmology: Introduction to Ophthalmology

Otolaryngology and Clinical Diagnosis

Pediatrics: Introduction to Pediatrics

Surgery: Introduction to Surgery

COMMITTEE IN CHARGE

Carl V. Moore *Chairman*

William H. Masters

Richard G. Scobee

George Saslow

Gilbert Forbes

Joseph H. Ogura

Peter Heinbecker

DEPARTMENTS OF THE SCHOOL

ANATOMY

Edward W. Dempsey, Ph.D.	Professor of Anatomy
Edmund V. Cowdry, Ph.D.	Research Professor of Anatomy
Robert J. Terry, M.D.	Professor Emeritus of Anatomy
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
Albert I. Lansing, Ph.D.	Associate Professor of Anatomy
Christopher Carruthers, Ph.D.	Research Associate in Cancer
Eugene Roberts, Ph.D.	Research Associate in Cancer
Theodore Rosenthal, Ph.D.	Research Associate in Cancer
Valentina Suntzeff, M.D.	Research Associate in Cancer
Edward L. Kuff, M.D.	Instructor in Anatomy
Oliver Duggins, M.S.	Research Assistant in Anatomy
Elsie S. Roush, M.S.	Assistant in Anatomy
Richard Knisely Winkelmann, M.D.	Research Fellow in Anatomy
Donald L. Opdyke, M.A.	Research Fellow in Anatomy

The anatomical sciences are presented in two regular required courses (gross anatomy, histology). 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)

11 (506). HISTOLOGY. A laboratory course occupying two afternoons a week during the first two trimesters. Special attention is paid to the study of living tissues, to the correlations of gross and microscopic structure, and to embryological considerations. There are two lectures a week and many informal discussions in the laboratories. 144 hours.

(Drs. Lansing, Kuff)

12 (507). **NEUROLOGY.** A laboratory course in gross and microscopic anatomy and in physiology of the nervous system. 168 hours.

(Drs. Bishop, O'Leary, Gilson, Schoepfle)

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 excepting for medical students who elect this for credit.

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 Graduate School of Arts and Sciences.)

Note—The numbers in parenthesis indicate that the course carries credit in the Graduate School of Arts and Sciences and may be found under that number in the Bulletin of that school.

BACTERIOLOGY AND IMMUNOLOGY

Jacques J. Bronfenbrenner, Ph.D.

Professor of Bacteriology and Immunology

Samuel J. Ajl, Ph.D.

Assistant Professor of Bacteriology and Immunology

I. L. Shechmeister¹

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

Frank L. Adler, M.S. *Assistant in Bacteriology and Immunology*

David Hersey, M.S. *Assistant in Bacteriology and Immunology*

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 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. 165 hours.

(Drs. Bronfenbrenner, Tsuchiya, Varney, Ajl)

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.

¹ Effective September 1, 1950.

Serum therapy. Hypersensitiveness. Two lectures and six hours of laboratory work each week during half of the first trimester. 44 hours.

(Drs. Bronfenbrenner, Varney, Ajl)

22 (533). PARASITOLOGY. The course is designed to present 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)

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. *Professor of Biological Chemistry*
 Maurice E. Krah1, Ph.D. *Associate Professor of Biological Chemistry*
 Paul W. Preisler, Ph.D. *Assistant Professor of Biological Chemistry*
 Ethel Ronzoni-Bishop, Ph.D.

Assistant Professor of Biological Chemistry in Neuropsychiatry

Earl Sutherland, M.D. *Assistant Professor of Biological Chemistry*
 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.¹

Research Associate in Biological Chemistry

David H. Brown, Ph.D.² *Instructor in Biological Chemistry*
 Robert Cowgill, Ph.D. *Instructor in Biological Chemistry*
 Robert K. Crane, Ph.D. *Instructor in Biological Chemistry*
 Graham T. Webster, M.D. *Instructor in Biological Chemistry*
 Robert Loeffel, B.S. *Research Assistant in Biological Chemistry*
 David H. Brown, Ph.D.³

Merck Postdoctoral Fellow in Biological Chemistry

Joseph Larner, M.D. *National Institute of Health and Life Insurance*
Medical Research 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. 336 hours.

(C. F. Cori, Krah1, Preisler, Taylor, Velick, Sutherland, Webster)

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.

¹ On leave of absence, effective September 1, 1950.

² October 1, 1950, to June 30, 1951.

³ July 1 to September 30, 1950.

THE JOHN T. MILLIKEN DEPARTMENT OF MEDICINE

(The Department of Medicine includes Internal Medicine and
Dermatology)

William Barry Wood, Jr., M.D.	<i>Busch Professor of Medicine</i>
Carl V. Moore, M.D.	<i>Professor of Medicine</i>
Robert E. Shank, M.D.	<i>Professor of Preventive Medicine</i>
Harry L. Alexander, M.D.	<i>Professor of Clinical Medicine</i>
Warren P. Elmer, M.D.	
	<i>Associate Professor Emeritus of Clinical Medicine</i>
Walter Fischel, M.D.	
	<i>Associate Professor Emeritus of Clinical Medicine</i>
Drew W. Luten, M.D.	
	<i>Associate Professor Emeritus of Clinical Medicine</i>
Llewellyn Sale, M.D.	
	<i>Associate Professor Emeritus of Clinical Medicine</i>
Gustave Dammin, M.D.	<i>Associate Professor of Medicine</i>
Alfred Goldman, M.D.	<i>Associate Professor of Clinical Medicine</i>
Carl G. Harford, M.D.	<i>Associate Professor of Medicine</i>
John Esben Kirk, M.D.	<i>Associate Professor of Medicine</i>
Joseph W. Larimore, M.D.	<i>Associate Professor of Clinical Medicine</i>
Cyril M. MacBryde, M.D.	<i>Associate Professor of Clinical Medicine</i>
William H. Olmsted, M.D.	<i>Associate Professor of Clinical Medicine</i>
Edward Reinhard, M.D.	<i>Associate Professor of Medicine</i>
George Saslow, M.D.	<i>Associate Professor of Psychiatry</i>
Henry A. Schroeder, M.D.	<i>Associate Professor of Medicine</i>
John R. Smith, M.D.	<i>Associate Professor of Medicine</i>
Leon Bromberg, M.D.	<i>Assistant Professor of Clinical Medicine</i>
Arthur C. Brooks, M.D.	<i>Assistant Professor of Clinical Medicine</i>
Samuel C. Bukantz, M.D.	<i>Assistant Professor of Medicine</i>
Harold A. Bulger, M.D.	<i>Assistant Professor of Clinical Medicine</i>
Jerome E. Cook, M.D.	<i>Assistant Professor of Clinical Medicine</i>
Charles W. Duden, M.D.	<i>Assistant Professor of Clinical Medicine</i>
Charles H. Eyermann, M.D.	<i>Assistant Professor of Clinical Medicine</i>
Robert J. Glaser, M.D.	<i>Assistant Professor of Medicine</i>
Leo Gottlieb, M.D.	<i>Assistant Professor of Clinical Medicine</i>
Samuel B. Grant, M.D.	<i>Assistant Professor of Clinical Medicine</i>
Paul O. Hagemann, M.D.	<i>Assistant Professor of Clinical Medicine</i>
Thomas Hunter, M.D.	<i>Assistant Professor of Medicine</i>
Bruce D. Kenamore, M.D.	<i>Assistant Professor of Clinical Medicine</i>
George D. Kettelkamp, M.D.	<i>Assistant Professor of Clinical Medicine</i>
William B. Kountz, M.D.	<i>Assistant Professor of Clinical Medicine</i>
John V. Lawrence, M.D.	<i>Assistant Professor of Clinical Medicine</i>
Edward Massie, M.D.	<i>Assistant Professor of Clinical Medicine</i>
Sedgwick Mead, M.D.	<i>Assistant Professor of Physical Medicine</i>
Albert I. Mendeloff, M.D., M.P.H.	<i>Assistant Professor of Medicine</i>
Harold Scheff, M.D.	<i>Assistant Professor of Clinical Medicine</i>

Virgil Scott, M.D.	Assistant Professor of Medicine
Arthur E. Strauss, M.D.	Assistant Professor of Clinical Medicine
Barrett Taussig, M.D.	Assistant Professor of Clinical Medicine
Lawrence D. Thompson, M.D.	Assistant Professor of Clinical Medicine
Ray D. Williams, M.D.	Assistant Professor of Clinical Medicine
Keith S. Wilson, M.D.	Assistant Professor of Clinical Medicine
Dean F. Davies, M.D.	Research Associate in Medicine
Reubenia Dubach, Ph.D.	Research Associate in Medicine
Virginia Minnich, M.S.	Research Associate in Medicine
Mary Ruth Smith, M.S.	Research Associate in Medicine
Harry Agress, M.D.	Instructor in Clinical Medicine
Louis F. Aitken, M.D.	Instructor in Clinical Medicine
Walter M. Baumgarten, M.D.	Instructor in Clinical Medicine
Sim F. Beam, M.D.	Instructor in Clinical Medicine
William G. Becke, M.D.	Instructor in Clinical Medicine
Bernard Bercu, M.D.	Instructor in Medicine
Grace Bergner, M.D.	Instructor in Clinical Medicine
Loren F. Blaney, M.D. ¹	Instructor in Clinical Medicine
Edward Cannady, M.D.	Instructor in Clinical Medicine
Benjamin H. Charles, M.D.	Instructor in Clinical Medicine
Cecil M. Charles, M.D.	Instructor in Clinical Medicine
William H. Daughaday, M.D.	Instructor in Medicine
Anthony B. Day, M.D.	Instructor in Clinical Medicine
Truman Drake, M.D.	Instructor in Clinical Medicine
Joseph C. Edwards, M.D.	Instructor in Clinical Medicine
Robert Elliott, M.D.	Instructor in Clinical Medicine
Julius Elson, M.D.	Instructor in Clinical Medicine
Herman Erlanger, M.D.	Instructor in Clinical Medicine
I. J. Flance, M.D.	Instructor in Clinical Medicine
Bernard Friedman, M.D.	Instructor in Clinical Medicine
Melvin Goldman, M.D.	Instructor in Clinical Medicine
Stanley Hampton, M.D.	Instructor in Clinical Medicine
Raymond Holden, Jr., M.D.	Instructor in Clinical Medicine
John Horner, M.D.	Instructor in Clinical Medicine
J. Ted Jean, M.D.	Instructor in Clinical Medicine
Michael Karl, M.D.	Instructor in Clinical Medicine
Robert W. Kelley, M.D.	Instructor in Clinical Medicine
David N. Kerr, M.D.	Instructor in Clinical Medicine
Robert C. Kingsland, M.D.	Instructor in Clinical Medicine
Melvin B. Kirstein, M.D.	Instructor in Clinical Medicine
Karl F. Koenig, M.D.	Instructor in Clinical Medicine
Hiram S. Liggett, M.D.	Instructor in Clinical Medicine
Richard Maxwell, M.D.	Instructor in Clinical Medicine
Joseph Noah, M.D.	Instructor in Clinical Medicine
Robert Paine, M.D.	Instructor in Clinical Medicine
Harold Roberts, M.D.	Instructor in Clinical Medicine

¹ In residence at Los Alamos.

Herman Rosenfeld, M.D.	<i>Instructor in Clinical Medicine</i>
Ernest T. Rouse, M.D.	<i>Instructor in Clinical Medicine</i>
Llewellyn Sale, Jr., M.D.	<i>Instructor in Clinical Medicine</i>
John Seddon, M.D.	<i>Instructor in Clinical Medicine</i>
David Skilling, M.D.	<i>Instructor in Clinical Medicine</i>
Milton Smith, M.D.	<i>Instructor in Clinical Medicine</i>
Robert M. Smith, M.D.	<i>Instructor in Clinical Medicine</i>
Franz U. Steinberg, M.D.	<i>Instructor in Clinical Medicine</i>
C. Malone Stroud, M.D.	<i>Instructor in Clinical Medicine</i>
John C. Tinsley, M.D.	<i>Instructor in Medicine</i>
George X. Trimble, M.D.	<i>Instructor in Medicine</i>
John H. Wedig, M.D.	<i>Instructor in Clinical Medicine</i>
Herbert Wiegand, M.D.	<i>Instructor in Clinical Medicine</i>
Harry Wiese, M.D.	<i>Instructor in Clinical Medicine</i>
Arnold H. Williams, M.D.	<i>Instructor in Physiology in Medicine</i>
Edward B. Williams, M.D.	<i>Instructor in Clinical Medicine</i>
Oliver Abel, Jr., M.D.	<i>Assistant in Clinical Medicine</i>
Leonard Berg, M.D.	<i>Assistant in Medicine</i>
Frederick W. Dowda, M.D.	<i>Assistant in Medicine</i>
Norman W. Drey, M.D.	<i>Assistant in Clinical Medicine</i>
Alfred Fleishman, M.D.	<i>Assistant in Clinical Medicine</i>
Bruce T. Forsyth, M.D.	<i>Assistant in Medicine</i>
Harold Freedman, M.D.	<i>Assistant in Clinical Medicine</i>
Bernard T. Garfinkel, M.D.	<i>Assistant in Medicine</i>
B. Y. Glassberg, M.D.	<i>Assistant in Clinical Medicine</i>
Kendall D. Gregory, M.D.	<i>Assistant in Clinical Medicine</i>
Axel R. Gronau, M.D.	<i>Assistant in Clinical Medicine</i>
Eunice Grover, B.A.	<i>Research Assistant in Medicine</i>
Lee B. Harrison, M.D.	<i>Assistant in Clinical Medicine</i>
Helen Hilderman, A.B.	<i>Research Assistant in Medicine</i>
Ellabeth Houghton, A.B.	<i>Research Assistant in Medicine</i>
Bernard Hulbert M.D.	<i>Assistant in Clinical Medicine</i>
Mary Johnson, A.B.	<i>Research Assistant in Medicine</i>
John Kennedy, M.D.	<i>Assistant in Clinical Medicine</i>
Norman P. Knowlton, M.D.	<i>Assistant in Medicine</i>
Robert Koch, M.D.	<i>Assistant in Clinical Medicine</i>
Lawrence M. Kotner, M.D.	<i>Assistant in Clinical Medicine</i>
Robert D. Lange, M.D.	<i>Assistant in Medicine</i>
David Lieberman, M.D.	<i>Assistant in Medicine</i>
Warren Lonergan, M.D.	<i>Assistant in Clinical Medicine</i>
Kurt Mansbacher, M.D.	<i>Assistant in Clinical Medicine</i>
Frances E. McCarthy, B.A.	<i>Research Assistant in Medicine</i>
Edna M. Menhardt, B.S.	<i>Research Assistant in Medicine</i>
Arnold S. Moe, M.D.	<i>Assistant in Clinical Medicine</i>
Henry W. Noller, M.D.	<i>Assistant in Clinical Medicine</i>
William D. Perry, M.D.	<i>Assistant in Medicine</i>
Stanley N. Rokaw, M.D.	<i>Assistant in Medicine</i>
Marvin Rosecan, M.D.	<i>Assistant in Medicine</i>

Charles M. Ross, M.D.	Assistant in Medicine
Samuel E. Schechter, M.D.	Assistant in Clinical Medicine
Charles Shafer, M.D. ¹	Assistant in Medicine
John B. Shapleigh II	Assistant in Medicine
Burton A. Shatz, M.D.	Assistant in Clinical Medicine
John S. Skinner, M.D.	Assistant in Clinical Medicine
Ross B. Sommer, M.D.	Assistant in Medicine
John K. Spitznagel, M.D.	Assistant in Medicine
John R. Beem, M.D.	Fellow in General Medicine
John W. Berry, M.D.	

Life Insurance Medical Research Fellow in Infectious Diseases

Angelo P. Creticos, M.D.	Fellow in General Medicine
Arnold Danker, M.D.	Research Fellow in Allergy
Albert B. Eisenstein, M.D.	Research Fellow in Nutrition
A. Lewis Farr, M.D.	Research Fellow in Metabolism
Thomas J. Fitzpatrick, M.D.	Fellow in General Medicine
Ralph V. Gieselman, M.D.	Fellow in Gastroenterology
William J. Harrington, M.D.	

Fellow in Hematology and National Cancer Institute

Trainee in Medicine

J. W. Hollingsworth, M.D.

Fellow in Hematology and National Cancer Institute

Trainee in Medicine

Robert Jim, M.D.	Fellow in General Medicine
Virgil Loeb, Jr., M.D.	Research Fellow in Hematology
John I. Matthews, M.D.	Fellow in Gastroenterology
John D. Morrow, M.D.	Fellow in General Medicine
James W. Owen, Jr., M.D.	Fellow in Cardiology
Charles R. Park, M.D.	Welch Fellow in Medicine
Fevzi Renda, M.D.	Fellow in Hematology
Hugh R. Waters, M.D.	Research Fellow in Cardiology

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. Hagemann
Cardiovascular Disease	Dr. J. Smith
Chest Disease	Dr. Goldman
Dermatology	Dr. Weiss
Gastroenterology	Dr. Duden
Hematology	Dr. C. V. Moore
Hypertension	Dr. Schroeder
Infectious Disease	Dr. Harford
Metabolic Disease	Dr. Daughaday

¹ In residence at Los Alamos.

Nutrition	Dr. Shank
Malignant Disease	Dr. Reinhard
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 second, 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 6 weeks as clinical clerk in the general medical and dermatological clinics, and for 6 weeks in the wards of Barnes Hospital. During his senior clinical clerkship he receives formal instruction in medical therapeutics. In addition each junior student serves as a clinical clerk in the venereal disease clinic during his clerkship in Preventive Medicine.

Summer clerkships for which students may receive full credit are offered to both juniors and seniors. Students electing these summer clerkships may complete in advance their required work in Medicine and thus gain additional elective or vacation time during the regular academic year.

SECOND YEAR

20. ELEMENTARY MEDICINE.

(a) Pathologic Physiology. Observation and interpretation of the symptoms and signs of disease, with special reference to pathologic physiology. Part of Conjoint Medicine. (See page 103.) 30 hours.

(Drs. Wood, C. Moore, and Staff)

(b) Clinical Diagnosis. Lectures, demonstrations and practical exercises in the technique of clinical diagnosis. Part of Conjoint Medicine. (See page 103.) 135 hours.

(Drs. Reinhard, Glaser, Hunter, and Staff)

(c) Laboratory Methods of Diagnosis. Lectures and Laboratory course in microscopic, bacteriological, serological and chemical methods of diagnosis. Part of Conjoint Medicine. (See page 103.) 144 hours.

(Dr. Carl Moore and Staff)

THIRD YEAR

30. GENERAL MEDICINE.

(a) Supervised Study of Patients in Wards of St. Louis City Hospital. Students are assigned in rotation as clinical clerks to the patients admitted to the medical service of the hospital. Teaching exercises

include ward rounds, clinics, and afternoon work in the wards and laboratories. 31 hours a week for eight weeks. 248 hours.

(Drs. Glaser, Taussig, and Staff)

(b) Systematic Study of Infectious Diseases. Ward rounds and clinics presenting a survey of the more common infectious diseases are held once a week on the Isolation Wards of the St. Louis City Hospital. 2 hours a week for eight weeks. 16 hours.

(Dr. Harford)

(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 eight weeks. 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 service. 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 eight weeks. 16 hours.

(Dr. C. Moore and Staff)

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

32. 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, on the Metabolism Ward once a week, on the Neurology Service once a week, and to the Consultant in Psychosomatic Medicine once a week. The students also attend weekly Staff Rounds. 198 hours.

(Drs. Wood, C. Moore, and Staff)

(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, Massie, Brooks, and Staff)

Medicine B Clinic (General Medicine)

(Drs. Hagemann, Kenamore, Brooks, and Staff)

Afternoon

Dermatology Clinic:* 144 hours. (Dr. Weiss and Staff)

(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 trimester. 24 hours.

(Medical Resident and Staff)

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, C. Moore, and Staff)

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 years 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 Clerkships at Homer Phillips Hospital.* Six students—Morning only for six weeks. Attendance at ward rounds and conferences. Students will be given an opportunity to study selected patients admitted to the medical wards. (Drs. Paine, Bercu, and Staff)

51. *Psychosomatic Clinic.* Two students—Afternoons, twelve weeks. Participation in diagnosis and treatment of ambulatory patients with psychosomatic disorders. Only students who can arrange for longer elective periods than 6 weeks (see summer clerkships) will be accepted in the clinic. (Dr. Saslow and Staff)

52. *Medical Specialty Clinics.* Four students—Afternoons, six weeks. Gastrointestinal (Monday), Allergy (Tuesday), Arthritic (Wednesday), and Endocrine (Thursday).

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

53. *Diseases of the Chest. Koch Hospital.* Four students—All day for six 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 Conferences at Koch Hospital. (Drs. Kettelkamp, Friedman)

* Held at the Barnard Free Skin and Cancer Hospital.

54. *Metabolic Diseases.* Two students—All day for six 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. Daughaday)

55. *Infectious Diseases.* One student. Mornings only for six 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)

56. *Hematology.* One senior student may be accepted each trimester 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)

57. *Cardiology.* Four students—All day for six weeks. An intensive survey of cardiology, including electrocardiography, divided between discussion groups, demonstrations, and observation of selected ward and clinic patients at Barnes Hospital and Homer G. Phillips Hospital.

(Dr. Smith and Staff)

58. *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. Students wishing to do research should arrange for elective periods of at least 12 and preferably 18 weeks (see summer clerkships).

(Dr. Wood)

SECTION ON DERMATOLOGY

Richard S. Weiss, M.D.	<i>Professor of Clinical Dermatology</i>
Martin F. Engman, M.D.	<i>Professor Emeritus of Clinical Dermatology</i>
Adolph Conrad, M.D.	<i>Assistant Professor of Clinical Dermatology</i>
Clinton W. Lane, M.D.	<i>Assistant Professor of Clinical Dermatology</i>
Morris Moore, Ph.D.	<i>Assistant Professor of Mycology</i>
James W. Bagby, M.D.	<i>Instructor in Clinical Dermatology</i>
William G. Coleman, M.D.	<i>Instructor in Clinical Dermatology</i>
Adolph H. Conrad, Jr., M.D.	<i>Instructor in Clinical Dermatology</i>
Martin F. Engman, Jr., M.D.	<i>Instructor in Clinical Dermatology</i>
George Manting, M.D.	<i>Instructor in Clinical Dermatology</i>
Morris D. Marcus, M.D.	<i>Instructor in Clinical Dermatology</i>
M. H. Scheele, M.D.	<i>Instructor in Clinical Dermatology</i>
Wilfred E. Wooldridge, M.D.	<i>Instructor in Clinical Dermatology</i>
Calvin C. Ellis, M.D.	<i>Assistant in Clinical Dermatology</i>
Irwin H. Eskeles, M.D.	<i>Assistant in Clinical Dermatology</i>
Lawrence K. Halpern, M.D.	<i>Assistant in Clinical Dermatology</i>
Eugene P. Weber, M.D.	<i>Assistant in Clinical Dermatology</i>
Seth S. Barnes, M.D. ¹	<i>Fellow in Dermatology</i>
W. Smoot Carter, M.D. ¹	<i>Fellow in Dermatology</i>
William N. Enright, M.D. ¹	<i>Fellow in Dermatology (U. S. Navy)</i>

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.

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)

¹ July 1 to September 30, 1950.

NEUROPSYCHIATRY

Edwin F. Gildea, M.D.	<i>Wallace Renard Professor of Psychiatry</i>
George H. Bishop, Ph.D.	<i>Professor of Neurophysiology</i>
James L. O'Leary, M.D.	<i>Professor of Neurology</i>
Jules Henry, Ph.D.	<i>Associate Professor of Anthropology</i>
Saul Rosenzweig, Ph.D.	<i>Associate Professor of Medical Psychology</i>
George Saslow, M.D.	<i>Associate Professor of Psychiatry</i>
Robert I. Watson, Ph.D.	<i>Associate Professor of Medical Psychology</i>
Archie D. Carr, M.D.	<i>Assistant Professor of Clinical Neurology</i>
Hyman H. Fingert, M.D.	<i>Assistant Professor of Clinical Psychiatry</i>
Margaret C-L. Gildea, M.D.	<i>Assistant Professor of Clinical Psychiatry</i>
Joseph J. Gitt, M.D.	<i>Assistant Professor of Clinical Neurology</i>
Andrew B. Jones, M.D.	<i>Assistant Professor of Clinical Neurology</i>
Irwin Levy, M.D.	<i>Assistant Professor of Clinical Neurology</i>
Sydney B. Maughs, M.D.	<i>Assistant Professor of Clinical Psychiatry</i>
Ivan N. Mensh, Ph.D.	<i>Assistant Professor of Medical Psychology</i>
Hans B. Molholm, M.D.	<i>Assistant Professor of Clinical Psychiatry</i>
Ernest H. Parsons, M.D.	<i>Assistant Professor of Clinical Psychiatry</i>
Ethel Ronzoni-Bishop, Ph.D.	<i>Assistant Professor of Biological Chemistry in Neuropsychiatry</i>
Val B. Satterfield, M.D.	<i>Assistant Professor of Clinical Psychiatry</i>
Conrad Sommer, M.D.	<i>Assistant Professor of Clinical Psychiatry</i>
George A. Ulett, M.D.	<i>Assistant Professor of Psychiatry</i>
Samuel R. Warson, M.D.	<i>Assistant Professor of Psychiatry</i>
Alfred K. Baur, M.D.	<i>Instructor in Clinical Psychiatry</i>
Robert M. Bell, M.D.	<i>Instructor in Clinical Psychiatry</i>
Alfred D. Buchmueller, A.B.	<i>Instructor in Psychiatric Social Work</i>
Anthony K. Busch, M.D.	<i>Instructor in Clinical Psychiatry</i>
Dorothy Case, M.D.	<i>Instructor in Child Psychiatry</i>
Felice M. Emery, M.D.	<i>Instructor in Clinical Psychiatry</i>
James S. Glotfelty, M.D.	<i>Instructor in Clinical Psychiatry</i>
Janet Golden, B.S.	<i>Instructor in Psychiatric Social Work</i>
David F. Kahn, Ph.D.	<i>Instructor in Medical Psychology</i>
Alex H. Kaplan, M.D.	<i>Instructor in Clinical Psychiatry</i>
Paul E. Kubitschek, M.D.	<i>Instructor in Clinical Child Psychiatry</i>
Mildred L. Merrifield, M.S.S.	<i>Instructor in Psychiatric Social Work</i>
James O. Palmer, Ph.D.	<i>Instructor in Medical Psychology</i>
William J. Robinson, M.D.	<i>Instructor in Clinical Psychiatry</i>
Frank O. Shobe, M.D.	<i>Instructor in Clinical Psychiatry</i>
Samuel A. Trufant III, M.D. ¹	<i>Instructor in Neurology</i>
Paul J. Zentay, M.D.	<i>Instructor in Clinical Neurology</i>
Rosemary C. Baessler, B.S.	<i>Research Assistant in Psychiatry</i>
Robert D. Brookes, M.D.	<i>Assistant in Clinical Neurology</i>
Betty McDonald Caldwell, M.A.	<i>Assistant in Medical Psychology</i>
Robert M. Counts, M.D.	<i>Assistant in Neuropsychiatry</i>

¹ September 1, 1950, to June 30, 1951.

Arthur S. Greditzer, M.D.	<i>Assistant in Neuropsychiatry</i>
Paul T. Hartman, M.D.	<i>Assistant in Clinical Psychiatry</i>
William S. Horowitz, M.D.	<i>Assistant in Neuropsychiatry</i>
Barbara S. Kendall, A.B.	<i>Assistant in Medical Psychology</i>
John T. Johnstone, Jr., M.D.	<i>Assistant in Neuropsychiatry</i>
Edward H. Kowert, M.D.	<i>Assistant in Clinical Psychiatry</i>
Evelyn P. Mason, A.B.	<i>Assistant in Medical Psychology</i>
David F. Mendelson, M.D.	<i>Assistant in Neuropsychiatry</i>
Kenneth D. Michael, M.D.	<i>Assistant in Neuropsychiatry</i>
Warren B. Mills, M.D.	<i>Assistant in Clinical Neuropsychiatry</i>
Esther Lee Mirmow, M.A.	<i>Research Assistant in Clinical Psychology</i>
Robert J. Mueller, M.D.	<i>Assistant in Clinical Neuropsychiatry</i>
Joseph M. Natterson, M.D.	<i>Assistant in Neuropsychiatry</i>
Jackson C. Neayles, M.D.	<i>Assistant in Clinical Psychiatry</i>
Patricia L. O'Neal, M.D.	<i>Assistant in Neuropsychiatry</i>
Herbert E. Rosenbaum, M.D.	<i>Assistant in Neuropsychiatry</i>
Richard F. Schneider, M.D.	<i>Assistant in Neuropsychiatry</i>
Kathleen Smith, M.D.	<i>Assistant in Neuropsychiatry</i>
Marvin Stein, M.D.	<i>Assistant in Neuropsychiatry</i>
Jane Loevinger Weissman, Ph.D.	

Research Assistant in Medical Psychology

George Winokur, M.D.	<i>Assistant in Neuropsychiatry</i>
E. Van Norman Emery, M.D.	<i>Lecturer in Psychiatry</i>
Arthur H. Chapman, M.D.	<i>Fellow in Psychiatry</i>
Margaret H. Clare, B.S.	<i>Fellow in Neurophysiology</i>
Edmund V. Cowdry, Jr., M.D.	

United States Public Health Service Fellow in Psychiatry

Sidney Goldring, M.D.	<i>Fellow in Neurology</i>
D. Wells Goodrich, Jr., M.D.	<i>Fellow in Psychiatry</i>
Gregory C. Gressel, M.D.	<i>Fellow in Psychiatry</i>
Samuel B. Guze, M.D.	<i>Fellow in Psychiatry</i>
Leopold Hoffstatter, M.D.	<i>Research Fellow in Neuropsychiatry</i>
Wanda M. Lamb, M.D.	<i>Fellow in Psychiatry</i>
William M. Landau, M.D.	

Fellow in Neurology (Paraplegic Foundation)

Ann De Huff Peters, M.D.	<i>Fellow in Neuropsychiatry</i>
Edwin F. Price, M.D.	<i>Fellow in Psychiatry</i>
Eli Robins, M.D.	

United States Public Health Service Fellow in Psychiatry

Shirley J. Schaffer, M.D.	<i>Fellow in Psychiatry</i>
Philip H. Starr, M.D.	<i>Fellow in Psychiatry</i>
Samuel A. Trufant III, M.D. ¹	

United States Public Health Service Fellow in Neurology

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

¹ July 1 to August 31, 1950.

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 neuro-anatomy, 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. 12 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 PATHOLOGY OF BEHAVIOR (Part of Conjoint Medicine [see page 103]). Emphasis is upon (a) effective interviewing as preparation for medicine history-taking; (b) evaluation of the patient as a person, to determine the possible etiological relevance of personality to illness from the viewpoint of comprehensive medicine; (c) an introduction to psychiatric medicine. Lectures, demonstration interviews, written assignments, group discussions—with participation of internists, surgeons, psychologist, anthropologist, social worker, educator. 54 hours.

(Dr. G. Saslow)

20. NEUROLOGY.

NEUROLOGICAL EXAMINATION IN CLINICAL DIAGNOSIS. (Part of Conjoint Medicine [see page 103].) Lectures, demonstrations and exercises in the neurological examination of the patient. 6 hours.

(Dr. 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. 12 hours.

(Dr. E. F. Gildea)

(b) **CLINICAL CLERKSHIP.** One-ninth of the third-year class serve a clinical clerkship of six 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 Bliss Psychopathic Institute. Seminars covering the fundamentals of diagnosis, psychopathology, and therapy are given during this period of time. 126 hours.

(Drs. E. Gildea, Fingert, Maughs, M. Gildea, Shobe, Robinson, Baur, Busch, Ulett, Mills, Starr, Mr. Buchmueller, Mrs. Golden)

31. NEUROLOGY.

(a) **CLINICAL NEUROLOGY.** Lectures with demonstrations on diseases affecting the nervous system. The semeiology 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, third trimester. 24 hours. (Drs. Levy, O'Leary)

(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 technique and interpretation of history-taking and the neurological physical examination. 30 hours. (Drs. Gitt, Mills, Mueller)

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 diagnosis and treatment of patients in a general hospital. Emphasis is upon comprehensive medicine. One hour every two weeks throughout the year. 18 hours. (Drs. E. Gildea, Saslow)

(b) PSYCHIATRIC ROUNDS. (Part of Medicine 40.) 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 comprehensive medicine. 6 hours.

(Drs. Saslow, Ulett)

(c) PEDIATRIC PSYCHIATRY. Three meetings a week with students during clerkship on pediatrics for seminars and clinical conferences on the emotional problems of children and the child guidance approach. 18 hours. (Drs. Warson, Case, Kaplan, Alfred Schwartz)

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. 18 hours. (Drs. Levy, O'Leary)

(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. Levy, O'Leary, Trufant)

ELECTIVE COURSES

51. *Psychiatry*. Work may be elected for six weeks (for 12 weeks with Dr. Saslow). Student's preferences as to type of experience desired will be met so far as possible. Students may work in McMillan Hos-

pital, 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, 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
 Grandison D. Royston, M.D.
 Professor Emeritus of Clinical Obstetrics and Gynecology
 T. K. Brown, M.D.....*Professor of Clinical Obstetrics and Gynecology*
 Otto Henry Schwarz, M.D.....*Professor of Obstetrics and Gynecology*
 A. Norman Arneson, M.D.
 Associate Professor of Clinical Obstetrics and Gynecology
 John E. Hobbs, M.D.
 Associate Professor of Clinical Obstetrics and Gynecology
 Robert J. Crossen, M.D.
 Assistant Professor of Clinical Obstetrics and Gynecology
 Otto S. Krebs, M.D.
 Assistant Professor of Clinical Obstetrics and Gynecology
 William H. Masters, M.D.
 Assistant Professor of Obstetrics and Gynecology
 Frank P. McNalley, M.D.
 Assistant Professor of Clinical 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
 Samuel D. Soule, M.D.
 Assistant Professor of Clinical Obstetrics and Gynecology
 Carl R. Wegner, M.D.
 Assistant Professor of Clinical Obstetrics and Gynecology
 Hubert L. Allen, M.D.
 Instructor in 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
 Francis J. Canepa, M.D.
 Instructor in Clinical Obstetrics and Gynecology
 Myron W. Davis, M.D.
 Instructor in Clinical Obstetrics and Gynecology
 Arthur T. Esslinger, M.D.
 Instructor in Clinical Obstetrics and Gynecology
 Herman Hutto, M.D.....*Instructor in Clinical Obstetrics and Gynecology*
 Grover B. Liese, M.D.
 Instructor in Clinical Obstetrics and Gynecology

- Paul F. Max, 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. Morrin, M.B.
 Instructor in Clinical Obstetrics and Gynecology
 John B. O'Neill, M.D.
 Instructor in Clinical Obstetrics and Gynecology
 Leslie E. Patton, 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
 Frances H. Stewart, M.D.
 Instructor in Clinical Obstetrics and Gynecology
 Helman C. Wasserman, M.D.
 Instructor in Clinical Obstetrics and Gynecology
 Ralph B. Woolf, M.D.....*Instructor in Obstetrics and Gynecology*
 George J. L. Wulff, Jr., M.D.
 Instructor in Clinical Obstetrics and Gynecology
 William Berman, M.D.....*Assistant in Clinical Obstetrics and Gynecology*
 Bryce H. Bondurant, M.D.
 Assistant in Clinical Obstetrics and Gynecology
 MacDonald Bonebrake, M.D.....*Assistant in Obstetrics and Gynecology*
 John L. Cockrell, M.D.....*Assistant in Obstetrics and Gynecology*
 Charles R. Gulick, M.D.
 Assistant in Clinical Obstetrics and Gynecology
 Arthur L. Haskins, 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*
 Frank B. Long, M.D.....*Assistant in Obstetrics and Gynecology*
 Dorothy T. Magallon, M.D.....*Assistant in Obstetrics and Gynecology*
 James Pennoyer, M.D.....*Assistant in Clinical Obstetrics and Gynecology*
 Donald W. Robinson, M.D.....*Assistant in Obstetrics and Gynecology*
 Wallace R. Stacey, M.D.....*Assistant in Obstetrics and Gynecology*
 Alfred R. Sudholt, M.D.
 Assistant in Clinical Obstetrics and Gynecology
 Seth S. Wissner, M.D.....*Assistant in Obstetrics and Gynecology*
 Carl T. Woolsey, M.D.....*Assistant in Obstetrics and Gynecology*
 Marvin H. Grody, M.D.....*Fellow in Obstetrics and Gynecology*
 Cedric C. Johnson, M.D.....*Fellow in Obstetrics and Gynecology*
 Elfred H. Lampe, M.D.....*Fellow in Obstetrics and Gynecology*
 Robert M. Ruch, M.D.....*Fellow in Obstetrics and Gynecology*
 Alfred I. Sherman, M.D.....*Fellow in Obstetrics and Gynecology*
 Robert W. Stevens, M.D.....*Fellow in Obstetrics and Gynecology*

Chan-nam Tze, M.D.....	<i>Fellow in Obstetrics and Gynecology</i>
Andrew H. Veldhuis, M.D.....	<i>Fellow in Obstetrics and Gynecology</i>
Conrad R. Walters, M.D.....	<i>Fellow in Obstetrics and Gynecology</i>

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 Hospital provides approximately 3300 confinements, the St. Louis City Hospital 600 and the home delivery service of the University Clinics 100, annually. On the gynecological divisions there are approximately 300 admissions annually in the Barnes Hospital and 1,400 in St. Louis Maternity Hospital which are available for teaching purposes. Instruction in the care of ambulatory patients is carried out in the University Clinics where about 1,800 new patients are seen and 17,000 follow up visits are made annually.

SECOND YEAR

20. INTRODUCTION TO OBSTETRICS. Part of the course in Conjoint Medicine (see page 103).

THIRD YEAR

30. OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY. Three hours a week (in sections of one-third of the class). 36 hours.

(Dr. Hobbs and Staff)

31. CLINICAL CLERKSHIP. Students spend six 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. During the clerkship informal lectures are given.

(Dr. Allen and Staff)

FOURTH YEAR

40. CLINICS AND LECTURES. Entire class once weekly throughout the year. 36 hours.

(Dr. Allen and Staff)

41. CLINICAL CLERKSHIPS. One-eighteenth 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 have 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-eighteenth 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 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 diseases is given three 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

50. *Gynecological Pathology.* Two students may serve as assistants in the laboratory of the St. Louis Maternity Hospital and participate in the routine. Six weeks. Full time. All trimesters.

51. *University Clinics.* Three students as clinical clerks, all day for six weeks.

52. *Maternity Hospital.* One or two students may serve as clinical clerks, living in the hospital six weeks.

OPHTHALMOLOGY

Lawrence T. Post, M.D.

Professor of Clinical Ophthalmology and Head of the Department

M. Hayward Post, M.D. *Professor of Clinical Ophthalmology*

William E. Shahan, M.D.

Professor Emeritus of Clinical Ophthalmology

Meyer Wiener, M.D. *Professor Emeritus of Clinical Ophthalmology*

B. Y. Alvis, 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

Carl C. Beisbarth, 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

Adolph C. Lange, M.D. *Assistant Professor of Clinical Ophthalmology*

Theodore E. Sanders, M.D.

Assistant Professor of Clinical Ophthalmology

Richard G. Scobee, M.D. *Assistant Professor of 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 Ophthalmology*

Ruth S. Freedman, M.D. *Instructor in Clinical Ophthalmology*

David M. Freeman, M.D. *Instructor in Ophthalmology*

S. Albert Hanser, M.D. *Instructor in Clinical Ophthalmology*

William Meinberg, M.D. *Instructor in Clinical Ophthalmology*

Benjamin Milder, M.D. *Instructor in Clinical Ophthalmology*

Paul W. Miles, M.D. *Instructor in Ophthalmology*

Harry D. Rosenbaum, M.D. *Instructor in Clinical Ophthalmology*

Philip T. Shahan, M.D. *Instructor in Clinical Ophthalmology*

Harold Beasley, M.D.¹ *Assistant in Clinical Ophthalmology*

Lamar B. Harper, M.D. *Assistant in Clinical Ophthalmology*

William A. Moor, A.B. *Assistant in Ophthalmology*

John L. Power, M.D.² *Assistant in Ophthalmology*

Ralph S. Riffenburgh, M.D. *Assistant in Clinical Ophthalmology*

Paul H. Ripple, M.D.³ *Assistant in Ophthalmology*

James H. Scruggs, Jr., M.D.⁴ *Assistant in Ophthalmology*

Justin Sleight, M.D.² *Assistant in Ophthalmology*

John W. Sneed, Jr., M.D.² *Assistant in Ophthalmology*

¹ July 1 to July 31, 1950.

² July 1, 1950, to May 31, 1951.

³ August 1, 1950, to May 31, 1951.

⁴ July 1 to December 31, 1950.

Arthur W. Stickle, Jr., M.D. ¹	<i>Assistant in Ophthalmology</i>
Richard Thomas, M.D. ²	<i>Assistant in Ophthalmology</i>
Stanley Truhlsen, M.D. ¹	<i>Assistant in Ophthalmology</i>

SECOND YEAR

OPHTHALMOLOGY. Lectures and demonstrations are given as a part of the course in Conjoint Medicine. 3 hours. (See page 103.)

(Drs. Lawrence Post, James, Scobee)

THIRD YEAR

30. OPTHALMOLOGY. Twelve lectures are given in the second trimester.

(Drs. Lawrence Post, Scobee, P. Shahan)

FOURTH YEAR

40. CLINICAL OPTHALMOLOGY. Instruction in diagnosis and treatment of eye diseases is given to small sections of the class. Eleven hours a week for two weeks. 22 hours.

(Drs. Lawrence Post, M. H. Post, Schwartz, James, Hildreth, Beisbarth, Lange, Meinberg, E. B. Alvis, Bryan, Rosenbaum, Hanser, Milder, Freedman, Freeman, Harper)

¹ July 1, 1950, to May 31, 1951.

² July 1 to July 31, 1950.

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*
 S. R. Silverman, Ph.D.....*Professor of Audiology*
 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

I. D. Kelley, M.D.....*Associate Professor of Clinical Otolaryngology*
 Millard F. Arbuckle, M.D.

Assistant Professor of Clinical Otolaryngology

A. J. Cone, M.D.....*Assistant Professor of Clinical Otolaryngology*
 Harry N. Glick, 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*
 Guerdan Hardy, M.D.....*Instructor in Clinical Otolaryngology*
 Edward H. Lyman, M.D.....*Instructor in Clinical Otolaryngology*
 Joseph H. Ogura, M.D.....*Instructor in Otolaryngology*
 Allen B. Potter, M.D.....*Instructor in Clinical 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*
 Morris Davidson, M.D.....*Assistant in Clinical Otolaryngology*
 Sadab Dhiraputra, M.D.....*Assistant in Otolaryngology*
 Helen Gage, M.D.....*Assistant in Clinical Otolaryngology*
 Landon H. Gurnee, M.D.....*Assistant in Otolaryngology*
 Daniel Klaff, M.D.....*Assistant in Clinical Otolaryngology*
 Harry Ludwig, B.S.....*Research Assistant in Otolaryngology*
 F. W. Scherrer, M.D.....*Assistant in Clinical Otolaryngology*
 Gumaro Serrano, M.D.....*Assistant in Otolaryngology*
 Catherine A. Smith, M.S.....*Research Assistant in Otolaryngology*
 Sanford Snyderman, M.D.....*Assistant in Otolaryngology*
 Jack L. Turner, M.D.....*Assistant in Otolaryngology*
 Charles Watkins, M.D.....*Assistant in Otolaryngology*
 Doris S. Woolsey, M.D.....*Assistant in Clinical Otolaryngology*
 Cesar Fernandez, M.D.¹

W. K. Kellogg Foundation Fellow in Otolaryngology

¹ July 1 to August 31, 1950.

SECOND YEAR

OTOLARYNGOLOGY 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 103).

THIRD YEAR

30. OTOLARYNGOLOGY. Twelve lectures are given in the first trimester. (Dr. Ogura)

FOURTH YEAR

40. OTOLARYNGOLOGY. Clinical instruction is given to sections of six for eleven hours a week for two weeks. 22 hours. (Dr. Kelley)

ELECTIVE COURSE

50. *Clerkship in Otolaryngology*. Two students may serve as externs in the clinics for six 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. *Professor Emeritus of Pathology*Lauren V. Ackerman, M.D. *Associate Professor of Pathology*Gustave Dammin, M.D. *Associate Professor of Pathology*Margaret G. Smith, M.D. *Associate Professor of Pathology*Zola K. Cooper, Ph.D. *Assistant Professor of Pathology*Frank J. Dixon, M.D. *Assistant Professor of Pathology*John A. Saxton, Jr., M.D. *Assistant Professor of Pathology*Martin Silberberg, M.D. *Assistant Professor of Pathology*Ruth Silberberg, M.D. *Assistant Professor of Pathology*Edward B. Smith, M.D. *Assistant Professor of Pathology*August C. Arminini, Jr., M.D. *Instructor in Pathology*Julian Blache, M.D. *Instructor in Pathology*Wilson G. Brown, M.D. *Instructor in Pathology*Marvin Burstone, M.D. *Instructor in Pathology*Margaret Carter, M.D. *Instructor in Pathology*John B. Frerichs, M.D. *Instructor in Pathology*Menard Ihnen, M.D. *Instructor in Pathology*Richard Johnson, M.D. *Instructor in Pathology*Teofil Kheim, M.D. *Instructor in Pathology*Franz Leidler, M.D. *Instructor in Pathology*David Smith, M.D. *Instructor in Pathology*William Snoddy, M.D. *Instructor in Pathology*Victor E. Tinderholt, M.S. *Research Assistant in Pathology*Calvin J. Wegner, M.D. *Assistant in Pathology*Thomas B. Pote, M.D. *Lecturer Emeritus in Pathology*Vernon Pettit, M.D. *U. S. Army Fellow in Pathology*David W. Talmage, M.D. *U. S. Public Health Service Fellow in Pathology*Pradit Transurat, M.D. *Fellow in Pathology (Government of Siam)*

Humberto Torloni, M.D.

Fellow in Pathology (Cancer Society of Sao Paulo)

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.

Properly qualified students may register in the School of Medicine or Graduate School of Arts and Sciences for any of the courses. Pathology (501) is a prerequisite for all other courses.

The staff in pathology of numerous hospitals in and about St. Louis are members of the faculty of the department: Barnard Free Skin and Cancer Hospital (Dr. Frerichs), Ellis Fischel State Cancer Hospital (Dr. Johnson), St. Louis City Hospital (Drs. Saxton, M. Silberberg, and

R. Silberberg), St. Louis County Hospital (Dr. Brown), Homer G. Phillips Hospital (Dr. Blache), and Veterans Administration Hospital at Jefferson Barracks (Dr. Leidler). Material from these hospitals is available for teaching and research.

For the purpose of both teaching and research the Department of Pathology is divided into specialties under the following directors:

Clinical Pathology	Dr. Dammin
Dentistry	Dr. Burstone
Dermatology	Dr. Cooper
Gerontology	Dr. Saxton
Hematology	Dr. E. B. Smith
Infectious Diseases	Dr. M. G. Smith
Medicolegal Pathology	Dr. Brown
Neuropathology	Dr. David Smith
Oncology	Dr. Dixon
Surgical Pathology	Dr. Ackerman

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. 330 hours.

(Drs. Moore, M. G. Smith, Dammin, E. B. Smith,
D. Smith, Dixon, 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, Dammin, and E. B. Smith)

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, Dammin, Ackerman, Dixon,
E. B. Smith, Cooper, and D. Smith)

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.

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, Dammin, D. Smith, 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 trimester of the fourth year. Full time for six weeks. All trimesters.

(Drs. Moore, Margaret Smith, Dammin, Ackerman and Staff)

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
Adrien Bleyer, M.D.	
	<i>Associate Professor Emeritus of Clinical Pediatrics</i>
Gilbert B. Forbes, M.D.	Associate Professor of Pediatrics
David Goldring, M.D.	Assistant Professor of Pediatrics
Joseph Jaudon, M.D.	Assistant Professor of Clinical Pediatrics
Donald Thurston, M.D.	Assistant Professor of Pediatrics
Park J. White, M.D.	Assistant Professor of Clinical Pediatrics
Paul Zentay, M.D.	Assistant Professor of Clinical Pediatrics
Ruth Martin, D.D.S.	Dentist on the Pediatric Staff
Joseph A. Bauer, M.D.	Instructor in Clinical Pediatrics
Dorothy Case, M.D.	Instructor in Pediatrics
Max Deutch, M.D.	Instructor in Clinical Pediatrics
Ruth Gerstung, B.A.	Instructor in Bacteriology in Pediatrics
Stanley Harrison, M.D.	Instructor in Clinical Pediatrics
Frederick A. Jacobs, M.D.	Instructor in Clinical Pediatrics
Dorothy Jones, M.D.	Instructor in Clinical Pediatrics
William G. Klingberg, M.D.	Instructor in Pediatrics
Paul E. Kubitschek, M.D.	Instructor in Clinical Pediatrics
Sol Londe, M.D.	Instructor in Clinical Pediatrics
Maurice Lonsway, M.D.	Instructor in Clinical Pediatrics
Miriam M. Pennoyer, M.D.	Instructor in Clinical Pediatrics
Anne M. Perley, A.M.	Instructor in Biological Chemistry in Pediatrics
Edith C. Robinson, M.D.	Instructor in Clinical Pediatrics
Edward H. Rohlfing, M.D.	Instructor in Clinical Pediatrics
Wayne A. Rupe, M.D.	Instructor in Clinical Pediatrics
Alfred S. Schwartz, M.D.	Instructor in Clinical Pediatrics
Jean H. Thurston, M.D.	Instructor in Pediatrics
H. Ewing Wachter, M.D.	Instructor in Clinical Pediatrics
John Holland	Dentist on the Pediatric Staff
Helen Aff, M.D.	Assistant in Clinical Pediatrics
M. Remsen Behrer, M.D.	Assistant in Pediatrics
C. Read Boles, M.D.	Assistant in Clinical Pediatrics
Martin Calodney, M.D.	Assistant in Clinical Pediatrics
George M. Ewing, M.D.	Assistant in Pediatrics
Kenneth J. Fijan, M.D.	Assistant in Pediatrics
Robert H. Friedman	Assistant in Pediatrics
William J. Gallagher, Jr., M.D.	Assistant in Pediatrics
Mary B. Gilliland, M.D.	Assistant in Pediatrics
Samuel Gollub, M.D.	Assistant in Clinical Pediatrics
Leo Gowen, M.D.	Assistant in Clinical Pediatrics
Gene Grabau, M.D.	Assistant in Clinical Pediatrics
Norman Hankin, M.D.	Assistant in Clinical Pediatrics

Helen Hofsommer, M.D. ¹	<i>Assistant in Clinical Pediatrics</i>
Lawrence I. Kahn, M.D.....	<i>Assistant in Pediatrics</i>
Kenneth Koerner, M.D.....	<i>Assistant in Clinical Pediatrics</i>
Marianne Kuttner, M.D.....	<i>Assistant in Clinical Pediatrics</i>
Harry Lawler, M.D.....	<i>Assistant in Clinical Pediatrics</i>
Bruce H. Marshall, M.D.....	<i>Assistant in Pediatrics</i>
John C. Martz, M.D.....	<i>Assistant in Clinical Pediatrics</i>
Herbert Mazur, M.D.....	<i>Assistant in Clinical Pediatrics</i>
David McClure, M.D.....	<i>Assistant in Clinical Pediatrics</i>
Floyd B. Merritt, M.D.....	<i>Assistant in Pediatrics</i>
J. Neal Middelkamp, M.D.....	<i>Assistant in Pediatrics</i>
Helen E. Nash, M.D.....	<i>Assistant in Clinical Pediatrics</i>
Stanley H. Schuman, M.D.....	<i>Assistant in Pediatrics</i>
Bernard Schwartzman, M.D.....	<i>Assistant in Clinical Pediatrics</i>
Frank Wissmath, M.D.....	<i>Assistant in Clinical Pediatrics</i>

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.

SECOND YEAR

20. PHYSICAL DIAGNOSIS IN INFANTS AND CHILDREN. Bedside instructions in the methods of physical examination and in the interpretation of the symptoms and signs of disease in the infant and child. Part of Conjoint Medicine (see page 103). (Drs. Forbes, D. Thurston)

THIRD YEAR

30. Thirty-six lectures and demonstrations for the whole class. (Drs. Hartmann, Cooke)

FOURTH YEAR

40. PEDIATRIC CLINIC. Weekly amphitheatre demonstrations and discussions of selected cases from the hospital, for the whole class. 36 hours. (Drs. Hartmann, Cooke, D. Thurston, Klingberg, Forbes, Goldring, Jean H. Thurston)

41. PEDIATRIC AND PATHOLOGICAL CONFERENCES. Weekly conferences, following clinical conferences. See also Pathology 40.

¹ On leave of absence.

42. CLINICAL CLERKSHIPS. For essentially the entire day, beginning at 9:00 a. m., one-sixth of the class works as clinical clerks for 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 allergy 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, Forbes, Goldring,
Klingberg, D. Thurston, J. Thurston)

THE EDWARD MALLINCKRODT DEPARTMENT OF PHARMACOLOGY

Oliver H. Lowry, Ph.D., M.D.....	<i>Professor of Pharmacology</i>
Helen Tredway Graham, Ph.D.....	<i>Associate Professor of Pharmacology</i>
Robert F. Furchgott, Ph.D.....	<i>Assistant Professor of Pharmacology</i>
F. Edmund Hunter, Jr., Ph.D.....	<i>Assistant Professor of Pharmacology</i>
Morris Friedkin, Ph.D.....	<i>Instructor in Pharmacology</i>
Jack L. Strominger, M.D.....	<i>Research Assistant in Pharmacology</i>
William P. McCann, M.D.	<i>Life Insurance Medical Research Fellow in Pharmacology</i>
Eli Robins, M.D.	<i>United States Public Health Service Fellow in Pharmacology</i>
Byron S. Wenger, Ph.D.	<i>United States Public Health Service Fellow in Pharmacology</i>

SECOND YEAR

The course in Pharmacology is designed to acquaint the students with the reactions of the body to drugs in health and disease.

20 (501 and 502). PHARMACOLOGY. (a) Lectures, recitations and demonstrations covering the general field of pharmacology, including toxicology, chemotherapy and prescription writing. 56 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. 100 hours.

(a) or (b) may be taken alone by special students. Prerequisite, anatomy, biological chemistry and physiology.

(Drs. Lowry, Graham, Furchgott, Hunter, Friedkin)

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

Harvey L. White, M.D.....	<i>Professor of Physiology</i>
Joseph Erlanger, M.D.....	<i>Professor Emeritus of Physiology</i>
Hallowell Davis, M.D.....	<i>Professor of Physiology</i>
Arthur S. Gilson, Jr., Ph.D.....	<i>Associate Professor of Physiology</i>
Gordon M. Schoepfle, Ph.D.....	<i>Assistant Professor of Physiology</i>
William Sleator, Jr., Ph.D.....	<i>Assistant Professor of Biophysics in Physiology</i>
Albert Roos, M.D.....	<i>Instructor in Physiology</i>
Adolph Surtshin, M.D.....	<i>Instructor in Physiology</i>
Theodore Rosenthal, Ph.D.....	<i>Research Associate in Physiology</i>
Doris Rolf, A.B.....	<i>Research Assistant in Physiology</i>

FIRST YEAR

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. Second and third trimesters of the first year. 140 hours.

(b) Laboratory. Third trimester of the first year. 150 hours.

(Drs. White, Gilson, Schoepfle, Sleator, Roos, Surtshin, Rosenthal)

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.

PREVENTIVE MEDICINE AND PUBLIC HEALTH

Robert E. Shank, M.D.....*Professor of Preventive Medicine*

Albert I. Mendeloff, M.D., M.P.H.

*Assistant Professor of Preventive Medicine*Virgil Scott, M.D.....*Assistant Professor of Preventive Medicine*Herbert R. Domke, M.D., M.P.H.....*Assistant Professor of Public Health*Helen Brazell, M.S.W.....*Instructor in Social and Environmental Studies*

Elaine M. Thomas, M.D.

*Instructor in Preventive Medicine and Public Health*George X. Trimble, M.D.....*Instructor in Preventive Medicine*Kathleen Roetto, B.S.....*Research Assistant in Preventive Medicine*Ann DeHuff Peters, M.D.*.....*Fellow in Preventive Medicine*Albert B. Eisenstein, M.D.¹.....*Fellow in Nutrition*Jesse B. Lasater.....*Lecturer in Vital Statistics*Elmer P. Wheeler.....*Lecturer in Public Health*Joseph C. Willett, D.V.M.....*Lecturer in Public Health*

Instruction in preventive medicine and public health is given in each of the first three years of the undergraduate medical curriculum. The teaching in the first year, under the direction 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. Also in the first year there is an introduction to quantitative methods in medicine based on student needs. In the second year there is 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. In the third 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 families, their environment, and the community. During this year the student is introduced to the activities of a community department of health, and the role of the private practitioner in these activities is stressed.

FIRST YEAR

10. PREVENTIVE MEDICINE. A series of 12 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 a week, 12 hours.

(Dr. Mendeloff and Staff)

* Also Fellow in Neuropsychiatry.

¹ Department of Medicine.

11. QUANTITATIVE METHODS IN MEDICINE. Twelve hours are devoted to lectures and exercises devised to acquaint the student with the importance of quantitative methods in medicine. The exercises are related directly to courses in pharmacology, physiology and epidemiology. Third trimester, 1 hour a week, 12 hours. (Dr. Paul R. Rider¹)

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 important sources of information rather than upon the description of disease per se. The exercises require the student to examine the information available and to formulate hypotheses for further investigation in order to institute and to evaluate preventive measures. (Dr. Shank and Staff)

THIRD YEAR

30. CLERKSHIP IN PREVENTIVE MEDICINE AND PUBLIC HEALTH. One-ninth of the class is assigned in rotation to this department for one-third trimester each. 130 hours. The main features of the assignment are:

(a) Medical Seminars. There are three 2-hour conferences weekly. These are devoted to a review of factors in maintaining health and of the preventive aspects of certain diseases, to a detailed discussion of patients previously examined, and to a consideration of community aspects of disease. The students select from other services patients who present special problems. During the clerkship the student reviews the medical aspects, diagnostic and therapeutic, visits the home, and subsequently reports his observations. When a case is presented to the group, discussion is primarily focused on the outstanding feature—medical, social, or environmental. Members of other clinical departments attend these conferences to participate in the discussion.

(Drs. Shank, Mendeloff, Scott, Domke, Peters, Thomas and Trimble;
Miss Brazell; Dr. Cooke;² Mr. Lasater and Mr. Wheeler)

(b) Conferences Concerning Psychosomatic Factors. These are conducted in cooperation with the Department of Neuropsychiatry. Cases are chosen that have been studied carefully by that department and represent considerations relative to psychosomatic factors in disease. After selection by the medical social worker, the case history is reviewed and presented by the student for discussion. One morning a week. (Dr. Peters and Miss Brazell)

¹ Department of Mathematics.

² Department of Pediatrics.

(c) Public Health. Students are assigned in rotation to various activities in the County Health Department. These include visiting with a Public Health Nurse, observation of a poliomyelitis rehabilitation center and a tuberculosis diagnostic clinic. One afternoon is spent observing a water treatment unit, a sewage disposal plant, and a dairy. In addition, opportunity is provided to observe and discuss considerations relative to health maintenance in industry.

(Drs. Domke and Thomas, Mr. Wheeler, and members of the staff of the County Health Department)

(d) Syphilis Clinic. Each student spends three half-days per week 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, Maxwell,² Roberts,² Skinner,² J. Smith,² Williams²)

ELECTIVE

50. 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. 12 hours.

(Dr. Park White¹)

¹ Department of Pediatrics.

² Department of Medicine.

RADIOLOGY

Hugh M. Wilson, M.D.	Professor of Radiology
Sherwood Moore, M.D.	Professor Emeritus of Radiology
Arthur L. Hughes, D.Sc.	

Consulting Physicist to the Mallinckrodt Institute of Radiology

Mildred Trotter, Ph.D.	Consultant in Anatomy
A. N. Arneson, M.D.	Associate Professor of Clinical Radiology
William E. Koch, Jr., D.D.S.	

Associate Professor of Clinical Radiodontics

Edward Reinhard, M.D.	Associate Professor of Radiology
Wendell G. Scott, M.D.	Associate Professor of Clinical Radiology
Martin D. Kamen, Ph.D.	

Associate Professor of Clinical Radiochemistry

Oscar C. Zink, M.D.	Assistant Professor of Clinical Radiology
Donald S. Bottom, M.D.	Instructor in Clinical Radiology
Gladden V. Elliott, M.D.	Instructor in Radiology
Wesley Fee, M.D.	Instructor in Radiology
Otto H. Grunow, M.D.	Instructor in Radiology
Thomas Keely, M.D.	Instructor in Radiology
William B. Seaman, M.D.	Instructor in Radiology
A. Jack Stacy, M.D.	Instructor in Radiology
R. W. Eells, M.D.	Assistant in Radiology
Hugh Harting, M.D.	Assistant in Radiology
R. S. Lackey, M.D.	Assistant in Radiology
Colby S. Stearns, M.D.	Assistant in Radiology
Arthur Coleman, Jr., M.D.	Assistant in Radiology
Wade Shuford, M.D.	Assistant in Radiology
John Glover, Ph.D. ¹	Commonwealth Fund Fellow in Radiology
Sumner N. Marder, M.D.	

American Cancer Society Fellow in Radiology

THIRD YEAR

30. Case method of presentation of active clinical material assigned to clinical clerks on the surgical wards of the hospital. Opportunity is offered to review the roentgenographic studies and discuss differential diagnoses. The second half of each session is devoted to systematic review of the clinical application of the roentgenographic method. One trimester, two hours.
(Dr. Wilson and Staff)

FOURTH YEAR

40. RADIOLOGY, DIAGNOSTIC ROENTGENOLOGY. Designed to present the principles of interpretation of diagnostic roentgenology. Conducted as a discussion group. Limited to twelve students. Six hours, one trimester.
(Dr. Wilson and Staff)

¹ July 1 to December 31, 1950.

ELECTIVE COURSES

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 six weeks.

(Dr. Wilson and Staff)

51. *Roentgen Manifestations of Gastro-Intestinal Disease.* Presentation of clinical and roentgen considerations of the more common lesions of the gastro-intestinal tract will be presented with emphasized clinical and pathological correlations.

(Dr. Wilson and Staff)

52. *Pediatric Roentgenology.* Consideration will be given to the correlation and roentgenologic findings of the common diseases of infancy and childhood.

(Dr. Wilson and Staff)

53. *Therapeutic Roentgenology.* An opportunity will be provided for fourth year students to observe and follow the treatment of patients with X-ray, radium and radioactive isotopes. Limited to two students, one trimester.

(Dr. Wilson and Staff)

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. *Bixby Professor of Surgery*
 Vilray P. Blair, M.D. *Professor Emeritus of Clinical Surgery*
 Ernest Sachs, M.D.

Professor Emeritus of Clinical Neurological Surgery

Major G. Seelig, M.D. *Professor Emeritus of Clinical Surgery*
 James Barrett Brown, M.D. *Professor of Clinical Surgery*
 Robert Elman, M.D. *Professor of Clinical Surgery*
 Peter Heinbecker, M.D. *Professor 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*
 Lauren V. Ackerman, M.D. *Associate Professor of Surgical Pathology*
 Eugene M. Bricker, M.D. *Associate Professor of Clinical Surgery*
 Thomas H. Burford, M.D. *Associate Professor of Surgery*
 Glover H. Copher, M.D. *Associate Professor of Clinical Surgery*
 Justin J. Cordonnier, M.D.

Associate Professor of Clinical Genitourinary Surgery

Leonard T. Furlow, M.D.

Associate Professor of Clinical Neurological Surgery

Laurence Gumbreck, Ph.D. *Research Associate in Surgery*
 Theodore E. Weichselbaum, Ph.D. *Research Associate in 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*
 Clarence H. Crego, Jr., M.D.

Assistant Professor of Clinical Orthopedic Surgery

Rogers Deakin, M.D.

Assistant Professor of Clinical Genitourinary Surgery

Charles L. Eckert, M.D. *Assistant Professor of Surgery*
 Arthur O. Fisher, M.D. *Assistant Professor of Clinical Surgery*
 Frederick A. Jostes, M.D.

Assistant Professor of Clinical Orthopedic Surgery

H. Relton McCarroll, M.D.

Assistant Professor of Clinical Orthopedic Surgery

Frank McDowell, M.D. *Assistant Professor of Clinical Surgery*
 Richard T. Odell, M.D. *Assistant Professor of Orthopedic Surgery*
 John F. Patton, M.D.

Assistant Professor of Clinical Genitourinary Surgery

J. G. Probststein, M.D. *Assistant Professor of Clinical Surgery*
 Fred C. Reynolds, M.D.

Assistant Professor of Clinical Orthopedic Surgery

Franklin E. Walton, M.D. *Assistant Professor of Clinical Surgery*
 Henry S. Brookes, Jr., M.D. *Instructor in Clinical Surgery*
 Cyril J. Costello, M.D. *Instructor in Clinical Surgery*

Ben Eiseman, M.D.	<i>Instructor in Surgery</i>
Lee T. Ford, Jr., M.D.	<i>Instructor in Clinical Orthopedic Surgery</i>
Minot P. Fryer, M.D.	<i>Instructor in Clinical Surgery</i>
George A. Gaikins, M.D.	<i>Instructor in Clinical Surgery</i>
Heinz Haffner, M.D.	<i>Instructor in Clinical Surgery</i>
Oscar P. Hampton, M.D.	<i>Instructor in Clinical Orthopedic Surgery</i>
Edward C. Holscher, M.D.	<i>Instructor in Clinical Orthopedic Surgery</i>
Stanley M. Leydig, M.D.	<i>Instructor in Clinical Orthopedic Surgery</i>
Carl E. Lischer, M.D.	<i>Instructor in Clinical Surgery</i>
John James Modlin, M.D.	<i>Instructor in Clinical Surgery</i>
Maurice B. Roche, M.D.	<i>Instructor in Clinical Orthopedic Surgery</i>
Albert Roos, M.D.	<i>Instructor in Surgery</i>
George E. Roulhac, M.D.	<i>Instructor in Neurological Surgery</i>
Leo A. Sachar, M.D.	<i>Instructor in Clinical Surgery</i>
J. Hoy Sanford, M.D.	<i>Instructor in Clinical Genitourinary Surgery</i>
Carl A. Wattenberg, M.D.	

Instructor in Clinical Genitourinary Surgery

Morris Abrams, M.D.	<i>Assistant in Clinical Genitourinary Surgery</i>
Carl J. Althaus, M.D.	<i>Assistant in Clinical Genitourinary Surgery</i>
J. W. Bassett, M.D.	<i>Assistant in Surgery</i>
J. Byron Beare, M.D.	<i>Assistant in Clinical Genitourinary Surgery</i>
Harvey R. Bernard, M.D.	<i>Assistant in Surgery</i>
Edward J. Bishop, M.D.	<i>Assistant in Surgery</i>
Vilray P. Blair, Jr., M.D.	<i>Assistant in Clinical Orthopedic Surgery</i>
Henry W. Bopp, M.D.	<i>Assistant in Surgery</i>
James T. Chamness, M.D.	<i>Assistant in Surgery</i>
William F. Collins, Jr., M.D. ¹	<i>Assistant in Surgery</i>
Harry Cutler, M.D.	<i>Assistant in Clinical Genitourinary Surgery</i>
Arthur R. Dalton, M.D.	<i>Assistant in Clinical Surgery</i>
Harry Fischer, M.D.	<i>Assistant in Surgery</i>
Virgil O. Fish, M.D.	<i>Assistant in Clinical Surgery</i>
Leon Fox, M.D.	<i>Assistant in Clinical Orthopedic Surgery</i>
Gerhard E. Gruenfeld, M.D.	<i>Assistant in Clinical Surgery</i>
Andy Hall, Jr., M.D.	<i>Assistant in Clinical Genitourinary Surgery</i>
Alex Harell, M.D.	<i>Assistant in Orthopedic Surgery</i>
Fleming B. Harper, M.D.	<i>Assistant in Surgery</i>
Carl J. Heifetz, M.D.	<i>Assistant in Clinical Surgery</i>
Thomas R. Hinchey, M.D.	<i>Assistant in Surgery</i>
Earl P. Holt, Jr., M.D.	<i>Assistant in Surgery</i>
Jules H. Kopp, M.D.	<i>Assistant in Clinical Genitourinary Surgery</i>
Richard A. Lemmer, M.D.	<i>Assistant in Surgery</i>
Charles Barber Mueller, M.D.	

Assistant in Surgery and Markle Scholar

John F. Neville, Jr., M.D.	<i>Assistant in Surgery</i>
Lawrence W. O'Neal, M.D.	<i>Assistant in Surgery</i>
Morton Pareira, M.D.	<i>Assistant in Clinical Surgery</i>

¹ On leave of absence.

Mather Pfeiffenberger, M.D.	<i>Assistant in Surgery</i>
Robert H. Ramsey, M.D.	<i>Assistant in Surgery</i>
Charles A. Ross, Jr., M.D.	<i>Assistant in Surgery</i>
Robert K. Royce, M.D.	<i>Assistant in Surgery</i>
Sam F. Schneider, M.D.	<i>Assistant in Clinical Surgery</i>
Harrison H. Shoulders, M.D.	<i>Assistant in Surgery</i>
Richard G. Sisson, M.D.	<i>Assistant in Surgery</i>
Hugh E. Stephenson, Jr., M.D.	<i>Assistant in Surgery</i>
D. J. Verda, M.D.	<i>Assistant in Clinical Surgery</i>
Willard B. Walker, M.D.	<i>Assistant in Surgery</i>
William Wall, M.D.	<i>Assistant in Surgery</i>
Watts R. Webb, M.D.	<i>Assistant in Surgery</i>
Richard Yore, M.D.	<i>Assistant in Surgery</i>
Robin Anderson, M.D.	<i>Fellow in Plastic Surgery</i>
Ralph Berg, M.D.	<i>Fellow in General Surgery</i>
Harrison Black, M.D.	<i>Fellow in Thoracic Surgery</i>
Theodore J. Capeci, M.D. ¹	<i>Fellow in General Surgery</i>
James O. Elam, M.D.	<i>Fellow in Anesthesiology</i>
James G. Gabbard, M.D.	<i>Fellow in Thoracic Surgery</i>
William E. Hunt, M.D.	<i>Fellow in Neurosurgery</i>
Hal B. Jennings, M.D.	<i>Fellow in Plastic Surgery</i>
Robert B. King, M.D.	<i>Fellow in Neurological Surgery</i>
Frederick W. Klinge, M.D.	<i>Fellow in General Surgery</i>
James O. Lottes, M.D.	<i>Fellow in Orthopedic Surgery</i>
Richard M. Peters, M.D.	<i>Fellow in Thoracic Surgery</i>
Peter Randall, M.D.	<i>Fellow in Plastic Surgery</i>
James L. Schricker, Jr., M.D.	<i>Fellow in Neurological Surgery</i>
Arthur H. Stein, Jr., M.D.	<i>Fellow in Orthopedic Surgery</i>
Lloyd W. Taylor, M.D.	<i>U. S. Army Fellow in Orthopedic Surgery</i>
James C. Wegner, M.D.	<i>U. S. Army Fellow in Surgical Pathology</i>

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 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 trimester 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 covers the field of

¹ On leave of absence.

general surgery and the major specialties, and the broad general principles of pathology, pathologic physiology, diagnosis and treatment are extensively discussed. At 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. During the latter part of the year there are various symposia on surgical subjects held in conjunction with other departments for the entire class.

In the senior year the students spend one-third of a trimester assigned to the general surgery outpatient departments at Washington University Clinics and at the Homer G. Phillips Hospital, and mornings for an additional one-third trimester are devoted to the orthopedic and genito-urinary outpatient departments.

SECOND YEAR

20. INTRODUCTION TO SURGERY. A lecture course in which are studied certain fundamental principles of physiology, biochemistry, and pathology as applied to surgery. Recitations, demonstrations, and clinics to amplify the lectures are included. Three hours weekly during the second trimester. (Drs. Heinbecker, Walton, Eckert and Burford)

THIRD YEAR

31. SURGICAL CLINIC. A weekly exercise throughout three trimesters. 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 trimester the student serves as a clerk in the surgical wards of Barnes, St. Louis Children's, and St. Louis City Hospitals. The time is divided between the Barnes Hospital service and that at City Hospital. The instruction in the latter hospital is under the direction of Drs. Bricker, Costello, Haffner, Lischer and Eckert. While on the City Hospital service the student spends two weeks 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 in the cases studied by them and are encouraged to be present at the pathological conference 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. All students are assigned to the fracture service of the City Hospital for two weeks (full time). In addition 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. 12 hours. (Dr. Hampton)

33. SURGICAL PATHOLOGY. Weekly exercises of two hours for three trimesters, 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. Ackerman)

FOURTH YEAR

40. SURGICAL CLINIC. A weekly exercise throughout the year. See course 31. Students of the third year also attend this clinic. 36 hours. (Dr. Graham)

41. OUTPATIENT SERVICE. The general plan of the outpatient service for seniors is that one-ninth of the class at a time is assigned to surgical work for 8 weeks during each trimester. Of this time 4 weeks are devoted to general surgery and 4 weeks to the surgical specialties. In general surgery the students attend the Homer Phillips Hospital Clinic in the morning and the Washington University Clinic in the afternoon. The students have an opportunity to see their cases first and to make the initial examination and diagnosis under the supervision of an instructor. They then follow their own cases through subsequent stages of diagnosis and treatment. They assist in carrying out minor surgical procedure.

For 4 weeks the students are assigned to various surgical specialty clinics. These include 12 hours each in the genito-urinary, the orthopedic, plastic surgery, and neurosurgery clinics. In addition 6 hours each are spent in the rectal clinic and at the Shriners Hospital for Crippled Children.
(Various members of the staff)

42. **TUMOR CLINIC AND CONFERENCE.** A tumor conference is held for one-third of the class at a time during the entire trimester for one hour each week, a total of 12 hours. In this conference cases are presented for discussion and various aspects of cancer diagnosis and treatment are outlined.

A tumor clinic is held for one-ninth of the class at a time one morning a week, 12 hours in all, in which particular cases are selected for follow-up. One hour of each session is devoted to a discussion of special topics.
(Dr. Eckert and others)

ELECTIVE COURSES

50. *Surgical Pathology.* Two students full time for six weeks, all trimesters. 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. Ackerman)

51. *Washington University Clinics.* General surgery, six 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 (511). *Research in Surgery.* Six 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 problems. (Dr. Graham)

53. *State Cancer Hospital.* Four students to serve as clinical clerks at the State Cancer Hospital, Columbia, Missouri, full time six 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. (Dr. Modlin)

54. *Anesthesia.* One or two students. Six 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 classroom 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 six weeks. (Dr. Rose)

56. *Physical Medicine.* Four students. Mornings for six weeks. (Dr. Mead)

57. *Advanced Clerkships.* Four students will be given advanced clerkships on the general surgery service at Barnes Hospital for periods of six weeks. Arrangements should be made with Dr. Eugene Bricker.

MISCELLANEOUS COURSES

MEDICAL JURISPRUDENCE

William W. Crowds, 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. 12 hours.

MILITARY SCIENCE AND TACTICS

Vernon D. Pettit, M.D., Lieutenant Colonel, M.C., U. S. Army
Assistant Professor of Military Science and Tactics

MILITARY SCIENCE AND TACTICS. 1 hour per week. 36 weeks. Open to all classes.

For many years this institution has sponsored a Medical Reserve Officers' Training Corps (ROTC) Unit. By an agreement with the Surgeon General, Department of the Army, a doctor in the Regular Army is detailed as the instructor in Medical Military Science and for graduate work in some medical specialty. As in the past, Military Medicine is an elective course offered to regularly enrolled medical students who are physically qualified and are citizens of the United States.

The course is designed to supplement the medical school curriculum, which prepares the student for the practice of civilian medicine. The medical school teaches him the technics involved in providing ideal medical care for the individual patient and indoctrinates him with the fundamentals of public-health organization and practices. Military medicine introduces the student to a broader concept of mass medicine, to the problems of the situation where the facilities of standard medical practice are overburdened—in short, to the approach that must be used to cope with a catastrophe. Although it is within the realm of possibility that war will be outlawed, catastrophes will always constitute a problem in the planning of medical care. To make the material generally pertinent, the presentation is usually based on the line of action to be followed in case of catastrophe or disaster—fire, flood, blast, or war.

It is a progressive course, through the four years of medical school, meeting one hour weekly. During the first two years the organization of the Army is studied from the point of view of its effect on the

disposition, number, and severity of the sick and wounded. Tactics are briefly considered from the point of view of their influence, adverse or beneficial, on the problem of providing medical care. The student begins to consider the professional details involved in provision of medical care in disaster relief. In earlier wars the problems produced by disease and epidemic have exceeded medical capacity. In the last two years of the course the advances of military preventive medicine that were successful in avoiding this eventuality in the recent war are presented. Military preventive medicine encompasses all sanitary situations, from the most hazardous to the most salubrious, from the frozen Arctic to the tropical jungle.

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 any one of two summers, at the end of the sophomore year or the junior year. A clinical clerkship of six weeks at an Army Hospital is available for the veteran in lieu of the summer camp. Students who successfully complete the course are offered commissions as First Lieutenants in the Officers' Reserve Corps upon graduation.

An allowance of approximately \$27.00 per month is provided by the Army for the junior and senior students.

DIVISION OF POSTGRADUATE STUDIES

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 master's and a doctorate degree are offered by the Graduate School of Arts and Sciences. For further information, write the Assistant Dean, Division of Postgraduate Studies, Washington University School of Medicine, St. Louis 10, Missouri.

GRADUATE COURSE IN OPHTHALMOLOGY

Richard G. Scobee, M.D.....*Director*

An eight-months course, consisting of lectures, laboratories, and clinics in Ophthalmology and the preclinical sciences.

ENTRANCE REQUIREMENTS:

Graduation from an acceptable school of medicine and an internship in an approved hospital.

TUITION\$800.00

INTENSIVE COURSE ON MOTILITY

Richard G. Scobee, M.D.....*Director*

A two-weeks course consisting of lectures and clinical demonstrations, including demonstrations of muscle surgery.

ENTRANCE REQUIREMENTS:

Applicants must be graduates of an approved medical school, licensed to practice medicine, and either diplomates of the American Board of Ophthalmology or eligible for certification.

TUITION\$150.00

GRADUATE COURSE IN OTOLARYNGOLOGY

Theodore E. Walsh, M.D.....*Director*

An eight-months course, consisting of lectures, laboratories, and clinics in Otolaryngology and the preclinical sciences.

ENTRANCE REQUIREMENTS:

Graduation from an acceptable school of medicine and an internship in an approved hospital.

TUITION\$800.00

SURGERY OF OTOSCLEROSIS

A six-weeks course consisting of laboratory and clinical work.

ENTRANCE REQUIREMENT:

A post-graduate course and two years of residency in Otolaryngology.

TUITION\$600.00

REFRESHER COURSE IN PEDIATRICS

Alexis F. Hartmann, M.D.....*Director*

A six-weeks course, consisting of lectures, clinical demonstrations and ward rounds. Applicants must be graduates of an approved medical school.

TUITION\$200.00 for the entire six 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\$35.00 per week

POSTGRADUATE COURSE IN PHYSICAL MEDICINE

Sedgwick Mead, M.D.....*Director*

This is a four-weeks course designed to acquaint physicians with applied techniques of physical medicine and rehabilitation, diagnostic applications, and treatment of common conditions encountered in general practice. Applicants must be graduates of approved medical schools and licensed to practice medicine. Enrollment is limited to one or two physicians each period.

TUITION\$150.00

CONTINUATION COURSES

Most staff meetings, clinics, and departmental seminars are open to properly qualified physicians.

TUITION*No charge*

Special one and two-day courses are arranged from time to time.

TUITION\$10.00 a day

RESIDENCIES IN THE CLINICAL SPECIALTIES

The hospitals affiliated with the School of Medicine offer internships, 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.

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 Member

Joseph Erlanger

Members

George H. Bishop

Peter Heinbecker

Hallowell Davis

Sedgwick Mead

Edwin F. Gildea

James L. O'Leary

Arthur Gilson

Henry G. Schwartz

Helen T. Graham

Harvey L. White

Associates

Ethel Ronzoni-Bishop

George E. Roulhac

Archie D. Carr

George Saslow

Leonard T. Furlow

Gordon M. Schoepfle

Joseph J. Gitt

David E. Smith

Andrew B. Jones

Margaret Smith

Irwin Levy

Samuel Warson

Assistants

Samuel A. Trufant

Gerald Winokur

DIVISION OF GERONTOLOGY

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.

Through a bequest from the late Mrs. Ina Champ Urbauer a generous fund has been established for research in geriatrics and allied fields.

Executive Committee

John Esben Kirk *Chairman*

Robert A. Moore

William B. Kountz

Staff at the St. Louis City Sanitarium from the School of Medicine

William B. Kountz.....	<i>Director of Clinical Services</i>
John Esben Kirk.....	<i>Director of Research</i>
Philip Ackerman.....	<i>Research Assistant</i>
Margaret Chieffi.....	<i>Research Assistant</i>
From Hansen.....	<i>Research Assistant</i>
Cletus Krag.....	<i>Research Assistant</i>
Teofil Kheim.....	<i>Research Assistant</i>
Adolph Surtshin.....	<i>Research Assistant</i>

DIVISION OF TUMOR SERVICES

The Division of Tumor Services was organized in 1949 as a coordinating committee for the Cancer Teaching Program. Inasmuch as cancer, as other subjects in the medical curriculum, is given in a departmental manner, the Tumor Clinic is the principal site on which this Service functions. An attempt is made in this center to give a supplementary picture of the cancer problem as it exists today. In the senior year, time is allotted from the period on gynecology and surgery for work in this clinic. The Tumor Conference which is held for one-third of the senior class, postgraduate students, and visitors each week serves the purpose of demonstrating some of the more complex problems in diagnosis and therapy which arise in patients with malignant disease.

Executive Committee

Edward Reinhard.....	<i>Internal Medicine</i>
A. Norman Arneson.....	<i>Obstetrics and Gynecology</i>
Theodore Sanders.....	<i>Ophthalmology</i>
Theodore E. Walsh.....	<i>Otolaryngology</i>
Lauren Ackerman.....	<i>Pathology</i>
Sherwood Moore.....	<i>Radiology</i>
Charles Eckert, Chairman.....	<i>Surgery</i>

DIVISION OF PHYSICAL MEDICINE

Sedgwick Mead, M.D.....	<i>Director</i>
Alex Harell, M.D.....	<i>Assistant Director</i>

The Division of Physical Medicine provides instruction in this field and conducts a clinical service for the care of patients. The Departments of Physical Therapy and Occupational Therapy in the Division of Auxiliary Medical Services are integrated with the Division of Physical Medicine.

DIVISION OF PSYCHOSOMATIC MEDICINE

George Saslow, M.D.....*Director*

The Division of Psychosomatic Medicine integrates teaching, research, and service in this field. The staff consisting of psychiatrists, internists, psychologists, social workers, and occupational therapists is drawn largely from the departments of psychiatry and internal medicine.

IDA JORGENSEN FINKELNBURG AND EMMA JORGENSEN
WERNSE LABORATORY OF CANCER RESEARCHE. V. Cowdry, Ph.D.....*Director*Christopher Carruthers, Ph.D.....*Research Associate*Eugene Roberts, Ph.D.....*Research Associate*Theodore Rosenthal, Ph.D.....*Research Associate*Valentina Suntzeff, M.D.....*Research Associate*

Through the generosity of Emma Jorgensen Wernse, the School has established a special laboratory of cancer research. Investigation is largely in the fundamental field. Similar and related studies are also carried on in other departments of the School.

CHILD GUIDANCE CLINIC

The Child Guidance Clinic is operated as a joint enterprise of the Departments of Neuropsychiatry, Pediatrics, Psychology, Social Work, and Education with the assistance of the Children's Research Foundation and the Community Chest.

S. R. Warson, M.D.....*Director*Dorothy Case, M.D.....*Assistant Director*Alex Kaplan, M.D.....*Consultant*Felice Emery, M.D.....*Consultant*Jules Henry.....*Consultant*Saul Rosenzweig, Ph.D.....*Chief Psychologist*David Kahn.....*Psychological Assistant*Esther Lee Mirmow.....*Psychological Assistant*Loyce Bonner.....*Psychiatric Social Worker*

The University has asked a group of representative citizens of St. Louis to advise in the conduct of the Child Guidance Clinic.

Mr. Sam I. Goldman.....*Chairman*

Mrs. L. B. Tompkins

Judge John Calhoun

Mr. John L. Bracken

Mr. Morris Lasky

Mr. Elwin R. Smith

Dr. Borden Veeder

Dr. Robert A. Moore

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 levels.

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, St. 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*
Professor of Physiology
S. Richard Silverman, Ph.D.....*Professor of 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 Deans' Committee, with representatives from the two schools, is in direct charge of the educational program.

Administrative Officers for the Veterans Administration

John W. Claiborne*Manager*
L. E. Stillwell.....*Clinical Director*

Deans' Committee

For Washington University

Eugene Bricker
Robert Moore
Samuel Bukantz
Ernest H. Parsons

For St. Louis University

Ralph Kinsella
John Stewart
Melvin Casberg
Louis Kohler

*Staff of the Hospital from Washington University**Consultants*

Lauren V. Ackerman, Oncology	Sedgwick Mead,
A. Norman Arneson,	Physical Medicine
Radiation Therapy	James L. O'Leary, Neurology
Eugene Bricker, General Surgery	Leroy Peterson, Oral Surgery
Thomas Burford,	Paul Preisler,
Thoracic Surgery	Biological Chemistry
Louis T. Byars, Plastic Surgery	Val B. Satterfield,
Adolph H. Conrad, Jr.,	Neuropsychiatry
Dermatology	Henry G. Schwartz,
Charles H. Eyermann, Allergy	Neurological Surgery
Joseph Gitt, Neurology	Robert E. Votaw, Otolaryngology
Frederick Jostes,	Samuel Warson, Neuropsychiatry
Orthopedic Surgery	Harvey L. White, Physiology
Bruce Kenamore,	George J. L. Wulff, Jr., Obstetrics
Gastroenterology	and Gynecology

Attending Physicians

Harry Agress, Laboratory	Carl E. Lischer, General Surgery
Robert W. Bartlett,	Edward Lyman, Otolaryngology
General Surgery	Maurice Roche,
Wilson Brown, Pathology	Orthopedic Surgery
Justin Cordonnier, Urology	H. Rosenbaum, Ophthalmology
E. C. Holscher,	George E. Roulhac, Neurosurgery
Orthopedic Surgery	Ernest Rouse, Internal Medicine
Robert C. Kingsland,	John Seddon, Internal Medicine
Internal Medicine	

There are over sixty residencies in all specialties at the Veterans Hospital. For further information write: Secretary, Deans' Committee, Jefferson Barracks Veterans Hospital, Jefferson Barracks 23, 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 Physical Therapy. Schools operated by the Barnes Hospital include Laboratory Technology, Medical Dietetics, and Anesthesiology. All of the courses are approved by the American Medical Association or other certifying agencies and graduates are admitted to examinations. For further information write the Director of the Department or School, Washington University School of Medicine, St. 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.

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 on the main campus of the University and at the School of Medicine, and includes courses in accounting and statistics, social work, public health, and hospital administration. The second year is spent in field work 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. A matriculation fee of \$5.00 will be charged on initial registration.

DEPARTMENT OF OCCUPATIONAL THERAPY

Erna L. Rozmarynowski, B.S., O.T.R.....*Director*

A three-year course leading to the degree of Bachelor of Science in Occupational Therapy is offered. During the first two years the student acquires knowledge of both the physical and mental aspects of disease and disabilities, familiarity with manual and creative activity media, and a basic understanding of how these are correlated to provide Occu-

pational Therapy measures. The student also becomes oriented to the role of Occupational Therapy as coordinated with various medical and social resources of rehabilitation. Curriculum includes: sciences such as anatomy, physiology, psychiatry, and neurology; clinical subjects such as general medical, orthopedic, and cardiac disease; interpretation of principles and practices of Occupational Therapy in specific areas of disabilities; technical instruction in manual and creative activities. The third year consists of ten months of hospital practice in approved clinical affiliation centers.

Applicants must have completed two years of college work including specified courses in biology, physical science, psychology, and sociology. Tuition: \$400.00 each for the first and the second year, and \$100.00 for the third year. A matriculation fee of \$5.00 will be charged on initial registration.

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 extraocular muscles and practical orthoptic techniques.

Applicants must be graduates of an approved high school in the upper two-thirds of the class. Tuition is \$400.00 for the school year. A matriculation fee of \$5.00 will be charged on initial registration.

DEPARTMENT OF PHYSICAL THERAPY

Sedgwick Mead, M.D. *Director*

Beatrice Schulz, A.B. *Technical Director*

A two-year course for the training of physical therapy technicians, leading to a degree of Bachelor of Science in Physical Therapy. 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 techniques. The various modalities of treatment used by physical therapy technicians are thoroughly studied by means of lecture, demonstration, and practical application.

Applicants must have completed two years of college including certain specified courses.

The tuition is \$400.00 for the first year and \$200.00 for the first term and \$100.00 for the second term of the second year. A matriculation fee of \$5.00 will be charged on initial registration.

SCHOOL OF MEDICAL TECHNOLOGY

Gustave J. Dammin, M.D.....*Director*
 Mildred Oswald, B.S.....*Assistant Director*

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 college training approved by the Registry of Medical Technologists, Muncie, Indiana. The tuition is \$100.00 for the entire course.

A two-day refresher course in medical technology is given once or twice a year. Tuition is \$25.00.

SCHOOL OF DIETETICS

Henrietta Becker, B.S.....*Director*

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 Clinics, 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.

DEPARTMENT OF ANESTHESIA

Helen Lamb, R.N.....*Director*

A twelve-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 certificate 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 anesthetics upon her own responsibility.

The course is open to graduates of accredited schools of nursing. The tuition is \$100.00.

DEGREES CONFERRED AT COMMENCEMENT

June 7, 1949

DOCTOR OF MEDICINE

NAME — INTERNSHIP

- Au, Man Hing, B.S., M.S.,—Cincinnati General Hospital, Cincinnati, Ohio
- Benes, Doris May, B.S.—Wilkes-Barre General Hospital, Wilkes-Barre, Pennsylvania
- Berg, Leonard, A.B.—Barnes Hospital, St. Louis, Missouri
- Bond, Marcus Buster, A.B.—St. Elizabeth's Hospital, Washington, D. C.
- Breidenthal, Ward Brazelton—Medical College of Virginia, Richmond, Virginia
- Bruns, Kenneth—St. Luke's Hospital, Duluth, Minnesota
- Bumgarner, Roger William—University of Kansas Medical Center, Kansas City, Kansas
- Cannon, William Joseph—Colorado General Hospital, Denver, Colorado
- Carleton, Charles Earl, Jr., B.S.—St. Louis City Hospital, St. Louis, Missouri
- Duncan, James Thomas, Jr., A.B.,—Presbyterian Hospital, Chicago, Illinois
- Elder, Edward Ellis, Jr., B.S.—Harper Hospital, Detroit, Michigan
- Felton, Warren Locker, II—New Haven Hospital, New Haven, Connecticut
- Fingerhood, Marvin George—Jewish Hospital, St. Louis, Missouri
- Fischer, John Robert Burr—Albany Hospital, Albany, New York
- Fogel, Harold Norman, B.S.—Receiving Hospital, Detroit, Michigan
- Forrester, Ralph Haynes—Barnes Hospital, St. Louis, Missouri
- Fox, Roger Edwin, B.S.—Harper Hospital, Detroit, Michigan
- Goodhue, Gerald Albert—Grant Hospital, Chicago, Illinois
- Gray, Mary Jane, A.B.—Barnes Hospital, St. Louis, Missouri
- Greaves, Donald Critchfield—Salt Lake County General Hospital, Salt Lake City, Utah
- Gunn, Jack, A.B.—Kansas City General Hospital, Kansas City, Missouri
- Hanna, Richard Ewert, A.B.—St. Luke's Hospital, St. Louis, Missouri
- Happel, Elizabeth, A.B.—Bellevue Hospital, New York, New York
- Hawkins, James Connell—Barnes Hospital, St. Louis, Missouri
- Hayhurst, Dale Winton—Percy Jones General Hospital, Battle Creek, Michigan
- Heideman, Milo Lawrence, Jr., A.B.—New York Hospital, New York, New York
- Hessing, John Warren—Bellevue Hospital, New York, New York
- Hult, John Edward—St. Louis City Hospital, St. Louis, Missouri
- Innes, Robert Clapp—Missouri Baptist Hospital, St. Louis, Missouri
- Jaeger, Joseph Nicholas—Presbyterian Hospital, Chicago, Illinois
- Jernigan, James Austin, B.S.—Percy Jones General Hospital, Battle Creek, Michigan
- Jick, Sidney—St. Louis City Hospital, St. Louis, Missouri
- Kadlub, Edwin Dominic—St. Luke's Hospital, Denver, Colorado
- Kelly, Patrick Raymond—Fresno County General Hospital, Fresno, California
- Kilian, Duane Jack, B.S.—Brooke General Hospital, San Antonio, Texas
- Klein, Morton Wolf—Jewish Hospital, St. Louis, Missouri
- Korn, Robert Lawrence—Jewish Hospital, St. Louis, Missouri
- Kozal, Francis Leo, B.S.—Receiving Hospital, Detroit, Michigan
- Kubinek, Roland William—Presbyterian Hospital, Chicago, Illinois
- Kurahara, Louis—New York City Hospital, New York, New York

NAME — INTERNSHIP

Laurain, Alan Richard—Nashville General Hospital, Nashville, Tennessee
 Lenzen, John Louis, A.B., B.S.—St. Louis City Hospital, St. Louis, Missouri
 Levitt, Joseph—Letterman General Hospital, San Francisco, California
 Lipschitz, Ervin—Barnes Hospital, St. Louis, Missouri
 Livingston, Harry Hannan—University Hospitals, Cleveland, Ohio
 London, Stanley Leonard—Barnes Hospital, St. Louis, Missouri
 Luby, Elliot Donald, B.S.—Receiving Hospital, Detroit, Michigan
 Lund, Herluf Gyde, A.B., B.S.—St. Louis City Hospital, St. Louis, Missouri
 Lund, Robert Herluf—Barnes Hospital, St. Louis, Missouri
 Lyle, Robert Raymond, A.B., B.S.—Kansas City General Hospital, Kansas City, Missouri

Magallon, Robert Adrien—Missouri Baptist Hospital, St. Louis, Missouri
 McChesney, John Allen—St. Luke's Hospital, San Francisco, California
 McChesney, Margaret Burge, A.B.—Children's Hospital, San Francisco, California
 McGinty, Charles Patterson, A.B., B.S.—Barnes Hospital, St. Louis, Missouri
 Medley, Keith Graham—St. Louis City Hospital, St. Louis, Missouri
 Mellis, Richard Thomas—Presbyterian Hospital, Chicago, Illinois
 Minnihan, Robert William—Tripler General Hospital, Honolulu, Hawaii
 Moore, Robert—Cincinnati General Hospital, Cincinnati, Ohio
 Munro, Gordon A.—University of Colorado Medical Center, Denver, Colorado

Norsa, Luigia, A.B., A.M.—Maimonides Hospital, Brooklyn, New York

O'Brien, John Franklin, B.S.—Receiving Hospital, Detroit, Michigan
 Ohtani, John Mineo—St. Louis City Hospital, St. Louis, Missouri
 Oleesky, Samuel—in absentia—no internship

Pearce, Eugene Walker James—Walter Reed Hospital, Washington, D. C.
 Perry, Eldon Turley—Henry Ford Hospital, Detroit, Michigan
 Peterson, Shirley Jane, B.S.—St. Francis Hospital, Evanston, Illinois
 Pinney, Edward Lowell, Jr., B.S.—St. Louis City Hospital, St. Louis, Missouri

Ramey, Ehret Oscar, B.S.—St. Luke's Hospital, Kansas City, Missouri
 Raso, Anthony James—St. Louis City Hospital, St. Louis, Missouri
 Raymond, Bruce Allen, B.S.—University of Oregon Medical School Hospital and Clinic, Portland, Oregon
 Roesler, Paul Jay, B.S.—St. Louis City Hospital, St. Louis, Missouri
 Rokaw, Stanley Nathaniel, B.B.A.—Barnes Hospital, St. Louis, Missouri
 Rosecan, Marvin—Barnes Hospital, St. Louis, Missouri.

Sargent, Harold John—Paterson General Hospital, Paterson, New Jersey
 Schiele, Herbert Sigmund, Jr.—Robert Packer Hospital, Sayre, Pennsylvania
 Schulz, Dale Metherd, A.B., M.S.—Barnes Hospital, St. Louis, Missouri
 Settle, Beatrice Janet, A.B.—Colorado General Hospital, Denver, Colorado
 Shelden, Russell Dallmeyer, A.B., B.S.—Kansas City General Hospital, Kansas City, Missouri

Sievers, Maurice Lathan, B.S.—United States Public Health Service, Norfolk, Virginia

Sizemore, Hiram, Jr., B.S.—Walter Reed Hospital, Washington, D. C.
 Smith, Kathleen, B.S.—St. Louis City Hospital, St. Louis, Missouri
 Smith, Sidney—Jewish Hospital, St. Louis, Missouri
 Stein, Marvin—St. Louis City Hospital, St. Louis, Missouri
 Stull, Fred Edward, Jr., B.S.—Oliver General Hospital, Augusta, Georgia
 Sugioka, Kenneth, B.S.—University Hospital, Iowa City, Iowa
 Sultzman, Lorraine Carl, B.S.—St. Louis City Hospital, St. Louis, Missouri

Thomasson, David Delzell, B.S.—St. Paul's Hospital, Dallas, Texas

Vandergon, Keith Gordon—Minneapolis General Hospital, Minneapolis, Minnesota

NAME — INTERNSHIP

- Walsh, Thomas Joseph, B.S.—Barnes Hospital, St. Louis, Missouri
Wesselius, Lewis Frank, B.S.—Highland-Alameda County Hospital, Oakland, California
White, Laurens Park—Massachusetts General Hospital, Boston, Massachusetts
Whitmore, J. Stewart—Pittsburgh University Medical Center, Pittsburgh, Pennsylvania
Williams, Frank Richard, B.S.—Kansas City General Hospital, Kansas City, Missouri
Wood, James Albion—University Hospital, Ann Arbor, Michigan
Woodard, George Sawyer, Jr., B.S.—Letterman General Hospital, San Francisco, California
Yost, Paul Wesley, B.S.—Wesley Memorial Hospital, Chicago, Illinois

BACHELOR OF SCIENCE IN MEDICAL SCIENCE

- Felton, Warren Locker II—Bartlesville, Oklahoma
Lipschitz, Ervin—St. Louis, Missouri
Rokaw, Stanley Nathaniel—Brooklyn, New York
Rosecan, Marvin—University City, Missouri
Stein, Marvin—St. Louis, Missouri

PRIZES AWARDED, 1948-49

Gill Prize in Anatomy

Peter Paul Rowell, B.S.

Gill Prize in Pediatrics

John Edward Hult

The Alpha Omega Alpha Book Prize

Stanley Nathaniel Rokaw, B.B.A.

The Borden Undergraduate Research Award

Milo Lawrence Heideman, Jr., A.B.

Sidney I. Schwab Book Prize in Psychiatry

Bertram Jay Oppenheimer, A.B.

Prize of the Medical Fund Society in Medicine

Stanley Nathaniel Rokaw, B.B.A.

Prize of the Medical Fund Society in Surgery

Man Hing Au, B.S., M.S.

Jackson Johnson Regional Scholarships

David Edward Davidoff

Laverne S. Erickson, B.S.

Bruce Dwight Fallis, A.B.

Charles F. Humphreys, B.S.

Lawrence Kahana, S.B.

Sidney F. Kahn

John M. Kissane, B.S.

Mary C. Langston, B.S., M.S.

Jule P. Miller, Jr., A.B.

Peter Paul Rowell, B.S.

Ronald Le Roy Scott

Jessie Ternberg, A.B.

Harvey Walker, Jr., B.S., Ph.D.

Doris Evelyn Wilson, B.S.

REGISTER OF STUDENTS

FOURTH-YEAR CLASS (1949-50)

- 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, Melvin Harry A.B., Washington University, '44; B.S., University of Missouri, '48—St. Louis, Missouri
 Bierman, Joseph Smith, A.B., Washington Univ., '45—St. Louis, Missouri
 Bock, Charlotte Elizabeth, A.B., Washington Univ., '47—St. Louis, Missouri
 Borenstein, Milton Kelter, A.B., '41; M.A., '47, University of South Dakota—Vermillion, South Dakota
 Brennan, Patricia Anne, B.A., 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
 Burcham, Thomas Addison, Jr., B.A., Drake Univ., '47—Des Moines, Iowa
 Burchiel, Robert Danner—San Jose, California
 Caldwell, Fred Thomas, Jr., B.S., Baylor Univ., '46—Ashdown, Arkansas
 Cariss, Margaret Loraine, B.S., University of Missouri, '48—Granite City, Illinois
 Catanzaro, Rudolph Edward, A.B., Washington Univ., '49—St. Louis, Missouri
 Chambers, William Norman—San Antonio, Texas
 Comens, Ruth Cerf, B.S., University of Missouri, '48—St. Louis, Missouri
 Davis, Edwin, B.S., University of Texas, '40—Fort Worth, Texas
 Dunshee, Robert Edward, B.S., University of Missouri, '48—Stanberry, Missouri
 Eagleton, Mark David, A.B., Amherst Coll., '46—St. Louis, Missouri
 Eberlin, Eugene William, A.B., '47; B.S., '48, University of Missouri—Hermann, Missouri
 Echols, Robert Bruce, Maplewood, Missouri
 Emura, Edward Takeichi, B.S., Univ. of Hawaii, '45—Honolulu, T. H.
 Engelking, David Frederick, A.B., Cornell Univ., '46—Lanark, Illinois
 Epp, Milferd J.—Henderson, Nebraska
 Feldaker, Mauri, A.B., Washington Univ., '49—St. Louis, Missouri
 Finger, Donald Harvey, A.B., Washington Univ., '49—St. Louis, Missouri
 Fuller, Roger Lee, B.S., Murray State Teachers Coll., '42—Louisville, Kentucky
 Gabrio, Wesley F., B.A., Pacific Lutheran Coll., '40; M.S., Univ. of Mich., '46—Tacoma, Washington
 Goldstein, Albert, S.B., Univ. of Chicago, '42—Chicago, Illinois
 Gray, Helen Marie, A.B., Vassar Coll., '46—Clayton, Missouri
 Hastings, Charles Myrt, Jr., B.S., Washington State Coll., '46—Pasco, Washington
 Hebert, William M., A.B., Fresno State Coll., '45—Fresno, California
 Heinrichsmeyer, Ann Marie, A.B., Washington Univ., '49—St. Louis, Missouri
 Henry, John Kelly, B.S., Mississippi Coll., '47—Magee, Mississippi
 Henry, Louie Crum—Water Valley, Mississippi
 Hillman, Frederick Joseph, A.B., Harvard Coll., '46—Ottawa, Illinois
 Howard, Frank Albert, B.A., University of Kansas, '47—Enid, Oklahoma
 Hurst, Peter Leopold—Orange, New Jersey
 Iwano, Joseph Hifuo, A.B., Washington Univ., '46—Honolulu, T. H.
 James, Norman Alva, B.S., Central Mo. St. Teachers Coll., '43—Vienna, Missouri
 King, Thomas Lee, B.A., Trinity Univ., '48—San Antonio, Texas
 Kiser, John Remy, A.B., Univ. of California, '47; B.S., Univ. of Missouri, '48—Imola, California
 Krahenbuhl, Marcella May, A.B., Univ. of Kansas City, '46—Kansas City, Mo.
 Lederer, Charles Marshall, B.S., Central Mo. St. Coll., '47—Fort Lupton, Colorado
 Livingston, Harriette Lutz, B.A., Univ. of Colo., '46—Augusta, Kansas
 Livingston, Shields Osco, B.S., Central Mo. St. Teachers Coll., '46—Pleasant Hill, Missouri

- Lonsway, Maurice Julius, Jr., A.B., Washington Univ., '46—Richmond Heights, Missouri
- Lowrey, Daniel Bernard, B.S., Howard College, '44—Birmingham, Alabama
- March, Jack Franklin—Chattanooga, Tennessee
- Margetts, Lester Harold, Jr., A.B., Univ. of Mont. '46—Missoula, Montana
- Meyer, Walter L.—Jacksonville, Illinois
- Mills, James DeWitt, Jr.—St. Louis, Missouri
- Obourn, Robert Lyle, A.B., Washington Univ., '41—St. Louis, Missouri
- O'Keefe, Joseph Damon, 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, Meredith, Jorstad, A.B., Washington Univ., '47—St. Louis, Missouri
- Payne, William Spencer—St. Louis, Missouri
- Pfeffer, Robert I.—White Plains, New York
- Puls, Richard John, B.A., University of Texas, '47—Fort Worth, Texas
- Ramsey, Lloyd Hamilton, B.S., Univ. of Kentucky, '42—Lexington, Kentucky
- Reid, Newton Howard, A.B., Washington Univ., '49—Oswego, New York
- Reister, Dorothy Dailey, B.A., DePauw Univ., '47—Charlotte, Michigan
- Reister, Philip Douglas, B.S., Michigan St. Coll., '42—Charlotte, Michigan
- Rochman, Robert, A.B., Washington Univ., '42—St. Louis, Missouri
- Rodgers, Dorothy Llewellyn, A.B., West Virginia Univ., '43—Morgantown, West Virginia
- Rukes, Junior Max, A.B., '40; M.A., '42, Ind. St. Teachers Coll.—Rosedale, Indiana
- Sharrotta, Joseph Vincent, B.S., Western Reserve Univ., '47—Cleveland, Ohio
- Skerbeck, Frank Joseph, B.S., State Teachers Coll., '48 (Wisconsin)—Spooner, Wisconsin
- Stewart, Robert Bell, A.B., Univ. of Mo., '41—Springfield, Missouri
- Streeter, Ralph Thomas—Superior, Wisconsin
- Swarm, Richard Lee, A.B., Washington Univ., '49—Belleville, Illinois
- Thomasson, Robert Edgar, B.S., Drury Coll., '42—Bolivar, Missouri
- Vineyard, William R.—Nevada, Missouri
- Wagner, Robert Harris, A.B., '47; B.S., '48, University of Missouri—St. Louis, Missouri
- Wallace, John Milton, A.B., Washington Univ., '46—Maplewood, Missouri
- Walters, John H.—St. Louis, Missouri
- Warner, John Ketchum—St. Louis, Missouri
- Weible, David Murray, B.S., University of North Dakota, '48—Fargo, North Dakota
- Wells, James Moncrief, Jr.—Leakesville, Mississippi
- Wetzel, Gloria Jean, B.S., State Coll. of Washington, '46—Moxee City, Washington
- Wibbels, Howard Lawrence, A.B., Univ. of Mo., '41—St. Louis, Missouri
- Wynder, Ernest Ludwig, B.A., New York Univ., '43—Irvington, New Jersey
- Yaeger, Gerald A., B.S., Northwestern Univ., '45—St. Louis, Missouri

Total, 85

THIRD-YEAR CLASS (1949-50)

- Alexander, Pauline K., A.B., Baylor University, '47—Mulberry, Arkansas
- Anderson, John B., Jr.—Vincennes, Indiana
- Bahn, Charles Frederick, B.S., S. E. Missouri State Coll., '47—Cape Girardeau, Missouri
- Bass, Billy J.—Jadwin, Missouri
- Blakeney, Herschel J.—Crystal Springs, Mississippi
- Burnside, Charles R.—Festus, Missouri
- Cady, Lee D., Jr., A.B., Washington University, '47—Dallas, Texas
- Casebolt, Buford T., A.B., William Jewell, '47; B.S., Univ. of Mo., '49—Kansas City, Missouri
- Cavaness, John D., B.S., University of Illinois, '47—Eldorado, Illinois
- Cheek, William R., A.B., Southwest Missouri State Coll., '47—Springfield, Missouri
- Chinsky, Murray, B.S., Univ. of Missouri, '49—St. Louis, Missouri

- Chou, Yen-ping—Kunming, China
 Comens, Phillip, B.S., Univ. of Missouri, '49—St. Louis, Missouri
 Cunningham, James B., A.B., University of Southern California, '47—Amarillo, Texas
 Cutter, James A.—Webster Groves, Missouri
 Defler, Kathryn M., B.A., University of Colorado, '45—La Porte, Colorado
 Dickerman, Joseph A., A.B., Culver-Stockton Coll., '40; B.S., Univ. of Mo., '49—St. Louis, Missouri
 Dorrough, Robert L.—Birmingham, Alabama
 Dorsett, John Dewey, Jr., A.B., Univ. of N. C., '47—Ridgewood, New Jersey
 Dunlevy, James H., A.B., State University of Iowa, '47—Fargo, North Dakota
 Evenson, Edward S.—Sherman, South Dakota
 Faw, Melvin L.—Topeka, Kansas
 Feierabend, Theodore C.—St. Louis, Missouri
 Foster, Eugene A., A.B., Washington University, '47—New York, New York
 Fulkerson, Wilbur E.—St. Louis, Missouri
 Gay, Elizabeth Kirkbride, B.S., '39; M.S., '41, University of Oklahoma—St. Louis, Missouri
 Gaylor, Walter R., A.B., Washington University, '47—Cape Girardeau, Missouri
 German, Walter A., Jr., A.B., Washington University, '47—Jefferson Barracks, Missouri
 Gess, Lowell A., B.A., Macalester Coll., '42—Nerstrand, Minnesota
 Gissen, Harold, A.B., Washington University, '47—New York, New York
 Goldstein, Marcy A.—St. Louis, Missouri
 Goto, George—Makaweli, Kauai, T.H.
 Gratz, Raymond Joseph—Jefferson City, Missouri
 Grunwaldt, Edgar—Buenos Aires, Argentina
 Guze, Lucien B.—Bronx, New York
 Haddox, Austin W.—Pawnee, Oklahoma
 Haley, Jack A., B.S., Univ. of Missouri, '49—Sedalia, Missouri
 Harris, Forest D.—Overland, Missouri
 Hartmann, Alexis F., Jr.—University City, Missouri
 Hendrix, Charles E.—Petersburg, Indiana
 Hetlage, Louis P., A.B., De Pauw Univ., '47; B.S., Univ. of Missouri, '49—St. Louis, Missouri
 Holmes, David Reed, B.S., Southwest Missouri State Teachers Coll., '42—Springfield, Missouri
 Holtz, Alan S., A.B., '47; B.S., '49, Univ. of Missouri—Kirkwood, Missouri
 Hosford, Henry C.—Las Vegas, New Mexico
 Hunt, Margaret Ann, A.B., Washington University, '47—De Witt, Arkansas
 Izmirlian, Grant—Pasadena, California
 Jannings, Charles J., III., A.B., Washington University, '47—Union, Missouri
 Johnson, Walfred W., B.A., Montana State University, '47—Missoula, Montana
 Kahn, Sidney F.—Memphis, Tennessee
 Kappesser, Roland C., A.B., Washington University, '47—University City, Missouri
 Kirkpatrick, Wendell C.—Madison, Wisconsin
 Knowles, John H., A.B., Harvard University, '47—West Los Angeles, California
 Krietmeyer, George R.—Normandy, Missouri
 Leong, James Tim—Honolulu, T. H.
 Levin, Marvin E.—St. Louis, Missouri
 Mason, Arthur D., Jr.—Tulsa, Oklahoma
 Mason, James C., B.S., U. S. Naval Academy, '43—Trinidad, Colorado
 McGavran, Elizabeth J.—Chapel Hill, North Carolina
 McNalley, Michael, A.B., Washington University, '47—Clayton, Missouri
 Mendenhall, Max, B.S., University of California, '41—Upper Lake, California
 Morgan, Jack N., B.S., Southern Methodist University, '47—Dallas, Texas
 Morgan, Volney C., B.A., Pacific Union College, '46—Los Angeles, California
 Mullen, Jack, B.S., University of Missouri, '49—Jefferson City, Missouri
 Neuenschwander, John R.—East St. Louis, Illinois
 Nichols, Charles Edward—St. Louis, Missouri

Norman, Philip S., A.B., Kansas State Teachers College, '47—Pittsburg, Kansas
 Osoba, William G., B.S., University of Missouri, '49—St. Louis, Missouri
 Ostfeld, Adrian M.—St. Louis, Missouri
 Palcheff, Christ L., A.B., Washington University, '47—Madison, Illinois
 Pinsker, Oscar T., A.B., Washington University, '47—Kansas City, Missouri
 Pitts, Kenneth E.—Overland, Missouri
 Prater, Bill G.—Springfield, Missouri
 Proctor, Donald C., A.B. '47; B.S., '49, University of Missouri—Columbia, Missouri
 Rader, George B.—Kansas City, Mo.
 Riddell, Orin Joseph—Alhambra, California
 Roberts, Wayne E.—Kansas City, Missouri
 Roehrs, Marvin E., B.S. University of Missouri, '49—Alma, Missouri
 Roush, George, Jr.—Milwaukee, Wisconsin
 Russell, David M.—North Little Rock, Arkansas
 Sandven, Semon J., B.S., Drury College, '46—Los Angeles, California
 Schaper, Ernest H., B.S., University of Missouri, '49—Warrenton, Missouri
 Serkes, Kenneth D.—St. Louis, Missouri
 Sher, Sanford, A.B., Washington University, '47—Bronx, New York
 Simmons, John L.—Marshall, Missouri
 Smith, Gerald L., A.B., Southwestern University, '47—Long Island, New York
 Steele, James C., Jr., B.S., University of Missouri, '49—Miami, Florida
 Taylor, Helen L.—St. Louis, Missouri
 Thomasson, Mary Wahlert, A.B., Washington University, '46—St. Louis, Missouri
 Tibbs, William A., Jr., B.S., University of Missouri, '49—Macon, Missouri
 Tyler, Herman R., A.B., Syracuse University, '47—Brooklyn, New York
 Van Prooyen, Cornelia M., B.S., State College of Washington, '47—Vancouver,
 Washington
 Vaughn, Walter R.—Paducah, Kentucky
 Veit, Harvey W., A.B., Washington University, '47—Alton, Illinois
 Vester, James E.—St. Louis, Missouri
 Watkins, Tom K.—Farmington, Missouri
 Waughtal, Philip L., B.A., '48; B.S., '49, University of Missouri, Columbia, Missouri
 Weaver, William C., B.S., State College of Washington, '43—Leavenworth, Wash-
 ington
 Weltge, Wilfred H.—St. Louis, Missouri
 Wheat, Myron W., Jr.—Locust Grove, Oklahoma
 Wiles, Jack N., A.B., Southwest Missouri State College, '41; B.S., University of
 Missouri, '49—Bakersfield, Missouri
 Woolsey, John L., B.S., Southwestern University, '40—Galesburg, Illinois
 Wyatt, George M.—Mayfield, Kentucky
 Wynne, Buck J., Jr., B.A., University of Texas, '43—Wills Point, Texas
 Zimmerman, Herbert B.—University City, Missouri

Total, 104

SECOND-YEAR CLASS (1949-50)

Allbaugh, Robert Dean, B.S., Iowa State College, '48—Ames, Iowa
 Anderson, Eric Ion—Stroudsburg, Pennsylvania
 Auner, Cecil Ray, A.B., Southwest Missouri State College, '48—Springfield, Mis-
 souri
 Ballew, John William—Lincoln, Nebraska
 Blalock, Robert Wyatt, A.B., Culver-Stockton College, '48—Canton, Missouri
 Blalock, William Neal—Mayfield, Kentucky
 Bradley, Richard Vernon—St. Louis, Missouri
 Braverman, Abe Elliot, A.B., Washington University, '48—St. Louis, Missouri
 Brown, George Walter, A.B., University of California at Los Angeles, '45—Coolidge,
 Arizona
 Bunch, Rob Royce—Champaign, Illinois
 Cady, Gerald William—Mason City, Iowa
 Clippinger, Frank Warren II, A.B., Drury College, '48—Springfield, Missouri

- Cole, William Robert—St. Louis, Missouri
 Commons, Jerrold Page—Stockton, California
 Copp, Ralph, Jr., A.B., Washington University, '48—St. Louis, Missouri
 Davidoff, David Edward—Milwaukee, Wisconsin
 Davidson, John Dee, A.B., Washington University, '48—Ferguson, Missouri
 Dell'Aria, Salvatore A.—East Boston, Massachusetts
 Denman, John Laughlin, B.S., University of Oklahoma, '48—Oklahoma City, Oklahoma
 Enggas, John Thomas—Linden, Missouri
 Fallis, Bruce Dwight, A.B., Texas Christian University, '48—Ft. Worth, Texas
 Frederick, Raymond Oscar—St. Louis, Missouri
 Gilden, Jerome Julius, A.B., Washington University, '48—St. Louis, Missouri
 Hawkins, Lee Wyeth—St. Louis, Missouri
 Hess, Howard, A.B., Washington University, '48—Bronx, New York
 Holmberg, Arthur Eugene—Coeur d'Alene, Idaho
 Hook, Harry Nelson, B.S., Washington State College, '48—Spokane, Washington
 Hooper, William Dale—Moscow, Idaho
 Jonas, Harry Sig., Jr.—Kirksville, Missouri
 Karsh, Robert Stanley—St. Louis, Missouri
 Katims, Robert Bernard—Miami, Florida
 Katz, Marvin Alan, A.B., Washington University, '48—St. Louis, Missouri
 Kaufman, Leonard Allan, A.B., Washington University, '48—Brooklyn, New York
 King, Francis Craig, B.M.E., Cornell University, '45—Washington, D.C.
 Kissane, John Michael, A.B., University of Rochester, '48—Pocatello, Idaho
 Lansche, James McLaren, A.B., Washington University, '48—St. Louis, Missouri
 Lansche, Walter Edward, A.B., Washington University, '48—St. Louis, Missouri
 Larson, Paul Urban, A.B., Washington University, '48—St. Louis, Missouri
 Lau, Sun Hing, A.B., Washington University, '48—Wahiawa, Oahu, Hawaii
 Lewis, Malcolm Richard, A.B., Washington University, '48—Webster City, Iowa
 Lieberman, Amos Hiriam, A.B., Columbia University, '48—Brooklyn, New York
 Liese, Grover Julian—St. Louis, Missouri
 Liljedahl, Nancy, A.B., University of California at Los Angeles, '48—Los Angeles, California
 Luecke, Percy Edgar, Jr., B.S., Southern Methodist University, '48—Dallas, Texas
 Markowitz, Alfred Morris, A.B., New York University, '48—Brooklyn, New York
 McCaffrey, James David—Pawtucket, Rhode Island
 McGinnis, Albert Eugene, A.B., Miami University, '43—Covington, Kentucky
 Miller, Charles, Jr., B.S., Iowa State College, '48—Ames, Iowa
 Nambu, Albert Takeshi, B.A., University of California at Los Angeles, '48—Redondo Beach, California
 Oliver, George Allen—Richland, Missouri
 Parker, Brent Mershon—Webster Groves, Missouri
 Peterman, Albert Frederick, B.S., University of Wisconsin, '48—Milwaukee, Wisconsin
 Porter, John Hart, III, A.B., Harvard University, '48—St. Louis, Missouri
 Pronko, Robert Carrington, B.S., Drury College, '48—St. Louis, Missouri
 Rachlin, Bernard—Philadelphia, Pennsylvania
 Robins, Bernard, B.A., Rutgers University, '48—Newark, New Jersey
 Rowe, John Hayden—Bettsville, Ohio
 Rowell, Peter Paul, B.S., University of Idaho, '47—Moscow, Idaho
 Ryan, Dana Charles, Jr.—Pawnee, Oklahoma
 Salser, Harold Alden, A.B., University of Wichita, '48—Wichita, Kansas
 Schachter, Sherman Oliver, A.B., Washington University, '48—Miami Beach, Florida
 Schulte, John Walter—Curundu, Canal Zone
 Scott, Ronald LeRoy—Portland, Oregon
 Shapiro, Robert Sidney, A.B., Washington University, '48—New York, New York
 Siebert, Paul Edward, A.B., Washington University, '48—St. Louis, Missouri
 Starrett, David Edward—Seattle, Washington
 Stover, Wilbur Henry, A.B., Washburn University, '47—Mobridge, South Dakota

Strachan, James Boyd, Jr.—Hot Springs, Arkansas
 Susman, Noah—St. Louis, Missouri
 Talpey, William Blight—Auburn, New York
 Thorpe, John Donald—Twin Falls, Idaho
 Titus, Jack L., B.S., University of Notre Dame, '48—South Bend, Indiana
 Trunnell, Eugene Erle—Kirksville, Missouri
 Washburn, Stephen Louis—Waban, Massachusetts
 Weinreb, Herbert Leonard, A.B., New York University, '48—Brooklyn, New York
 Weiss, Richard Herbert—Saginaw, Michigan
 Wellhouse, James Lansing, A.B., State University of Iowa, '48—Ames, Iowa
 Wilson, Doris Evelyn, B.S., State College of Washington, '48—Wapato, Washington
 Windsor, Richard Browning, A.B., Princeton University, '48—Point Pleasant, West Virginia

Total, 80

FIRST-YEAR CLASS (1949-50)

Adler, Perugina, A.B., Radcliffe College, '42—New York, New York
 Allen, Duff S., Jr., A.B., Princeton University, '49—Clayton, Missouri
 Almond, Carl H.—Warrensburg, Missouri
 Blight, William C., B.A., Southwest Missouri State College, '49—Springfield, Missouri
 Boniface, William R., A.B., Washington University, '49—St. Louis, Missouri
 Bowles, Richard P., A.B., William Jewell College, '49—Liberty, Missouri
 Brachfeld, Norman, A.B., Columbia University, '49—Brooklyn, New York
 Brodine, Charles E., B.S., Iowa State College, '48—Sioux City, Iowa
 Burch, Lloyd V., B.S., University of Wyoming, '49—Glenrock, Wyoming
 Burris, Stanley A., A.B., Washington University, '49—Kirkwood, Missouri
 Butcher, Robert W., B.S., University of Missouri, '49—Lebanon, Missouri
 Chiles, David R., B.A., Central College, '49—Independence, Missouri
 Commerford, John F., B.S., University of Notre Dame, '49—Crystal City, Missouri
 Curtiss, Charles E., A.B., Washington University, '49—St. Louis, Missouri
 Dalies, Arthur J., Jr., B.A., University of Arizona, '47—Tucson, Arizona
 Denninghoff, James C., B.A., University of Wichita, '48—Wichita, Kansas
 Draper, Edgar, A.B., Washington University, '46; B.D., Garrett Biblical Institute, '49—St. Louis, Missouri
 Elam, William N., Jr., B.A., Duke University, '47—St. Louis, Missouri
 Endres, Beverly Jean, A.B., Washington University, '49—Kansas City, Missouri
 England, Robert G.—Albuquerque, New Mexico
 Erickson, LaVerne S., B.S., University of Idaho, '49—Moscow, Idaho
 Ernst, Richard E., A.B., Washington University, '49—Kirkwood, Missouri
 Eubank, William Y.—Kansas City, Missouri
 Flanigan, Stevenson, A.B., Washington University, '49—Carthage, Missouri
 Fuller, Theodore J.—Chehalis, Washington
 Garrett, Wayne E., A.B., San Diego State College, '49—Lemon Grove, California
 Green, H. D.—St. Louis, Missouri
 Hahn, Walter R., B.A., Knox College, '49—Geneva, Illinois
 Harrelson, Orvis A.—Tacoma, Washington
 Hash, Helen E., A.B., Washington University, '49—McFall, Missouri
 Hecht, Alan, A.B., Sarah Lawrence College, '49—Mt. Vernon, New York
 Hixon, Walter S., B.S., Iowa State College, '48—Ames, Iowa
 Hogancamp, Charles E., B.S., Murray State College, '49—Bardwell, Kentucky
 Holland, Robert A., B.A., Drury College, '49—Springfield, Missouri
 Hoyt, Charles J., A.B., University of Michigan, '49—Poland, Ohio
 Humphreys, Charles F., B.S., State College of Washington, '49—Shoshoni, Wyoming
 Kahana, Lawrence, S.B., University of Florida, '47—Tampa, Florida
 Kelly, Roy O., Jr.—Bristow, Oklahoma
 Langston, Mary C., B.S., '46; M.S., '49, Florida State University—Lakeland, Florida
 Malette, William G.—Fresno, California
 Marks, Ansel R., A.B., Washington University, '49—Brooklyn, New York

McClure, Jere P.—Dyersburg, Tennessee
 Michael, James D.—Peoria, Illinois
 Miller, Glenn C., B.A., Oregon State College, '49—Klamath Falls, Oregon
 Miller, Jule P., Jr., A.B., Washington University, '49—Chesterfield, Missouri
 Mills, Eldon G.—Tucson, Arizona
 Moore, Tillman M., Jr., B.S., Iowa State College, '49—St. Louis, Missouri
 Nelson, John R., A.B., Washington University, '49—University City, Missouri
 Newport, Gerald, A.B., Washington University, '49—St. Louis, Missouri
 Oda, Ruth E., A.B., Washington University, '49—Hilo, T. H.
 Oetter, Donald Lee, A.B., Washington University, '48—St. Louis, Missouri
 Oishi, Norboru, A.B., Washington University, '49—Honolulu, T. H.
 Pace, Mary G., B.A., Stanford University, '49—Oakdale, California
 Parker, Charles W.—Webster Groves, Missouri
 Preble, Charles R., B.A., University of Maine, '49—Bar Harbor, Maine
 Reaume, Ralph B.—Junction City, Kansas
 Reed, Elizabeth B., A.B., University of California, '49—San Francisco, California
 Reitman, Stanley—University City, Missouri
 Repp, Theodore J., Jr.—St. Louis, Missouri
 Salzman, Edwin W.—Springfield, Missouri
 Sandson, John I.—Irwin, Pennsylvania
 Schaan, Robert C., A.B., Washington University, '49—St. Louis, Missouri
 Scheiner, Albert P., A.B., Washington University, '49—Bronx, New York
 Schloemann, Carl Theodor, A.B., Washington University, '48—St. Louis, Missouri
 Segall, Shirley E.—Tampa, Florida
 Shieber, William—St. Louis, Missouri
 Shealy, Edward M., B.S., '35; LL.B., '39, University of Wisconsin—Tomah, Wisconsin
 Shmagranoff, George L., A.B., Washington University, '48—St. Louis, Missouri
 Siner, Joel L., B.A., Swarthmore College, '49—New York, New York
 Spaulding, John B., B.A., Montana State University, '49—Missoula, Montana
 Taylor, Charles E., Jr., A.B., Swarthmore College, '49—Oil City, Pennsylvania
 Taylor, Ellis R.—Henderson, Kentucky
 Taylor, I. Thomas—Odebolt, Iowa
 Ternberg, Jessie L., A.B., Grinnell College, '46—Austin, Texas
 Thompson, James A., B.A., Montana State University, '49—Missoula, Montana
 Tippet, Jack C., A.B., Washington University, '49—Collinsville, Illinois
 Turner, James K., A.B., Washington University, '49—University City, Missouri
 Van Ravenswaay, Theodore, A.B., University of Missouri, '49—Boonville, Missouri
 Walker, Harvey, Jr., B.S., '44; Ph.D., '49, Ohio State University—Columbus, Ohio
 Wenneker, Alvin S., A.B., Washington University, '49—St. Louis, Missouri
 Williams, Neville A., Jr.—Grangeville, Idaho
 Williams, Rhys A., A.B., Westminster College, '49—Mexico, Missouri
 Winn, Harold—Atlantic City, New Jersey
 Winograd, Herbert L., A.B., Western Reserve University, '49—Cleveland, Ohio
 Winship, Robert D., A.B., Stanford University, '49—Yuba City, California
 Wright, Thomas L.—Fowler, Indiana
 Zuckerman, Bernard D., A.B., New York University, '49—Brooklyn, New York
 Total, 87

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