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The Summer School
Frank L. Wright, A.M., Ed.D., Director
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CALENDAR
1948-49

Registration for second-half year, Monday, January 31, 1949
Third Trimester begins Monday, March 14, 1949; ends Saturday, June 4, 1949.
Holidays, Good Friday, April 15 and Saturday, April 16, 1949.
Commencement, Tuesday, June 7, 1949.

1949-50

Registration for all new students, Wednesday, September 7, 1949.
Physical examinations for all former students, Friday, September 9, 1949.
Registration for all former students, Saturday, September 10, 1949.
Academic year (First Trimester) begins Monday, September 12, 1949; ends Saturday, December 3, 1949.
Second Trimester begins Monday, December 5, 1949; ends Saturday, March 11, 1950.
Christmas Recess, Wednesday, December 21, 1949, through Tuesday, January 3, 1950.
Registration for second half year, Monday, January 30, 1950.
Third Trimester begins Monday, March 13, 1950; ends Saturday, June 8, 1950.
Holidays, Good Friday, April 7 and Saturday, April 8, 1950.
Commencement, Tuesday, June 6, 1950.
THE CORPORATION

President
HARRY BROOKINGS WALLACE

First Vice-President
DANIEL KAYSER CATLIN

Second Vice-President
ETHAN ALLEN HITCHCOCK SHEPLEY

Directors

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<tr>
<th>Daniel Kaysers Catlin</th>
<th>Ben Moreell</th>
</tr>
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<tr>
<td>William Henry Danforth</td>
<td>Eugene Dutton Nims</td>
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<td>Adrian Wood Frazier</td>
<td>John Merrill Olin</td>
</tr>
<tr>
<td>Clifford Willard Gaylord</td>
<td>Alexander Wessel Shapleigh</td>
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<tr>
<td>Wilson Linn Hemingway</td>
<td>Ethan Allen Hitchcock Shepley</td>
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<tr>
<td>Roland Milton Hoerr</td>
<td>Ernest William Stix</td>
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<tr>
<td>John Stark Lehmann</td>
<td>Harry Brookings Wallace</td>
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<td>James Wesley McAfee</td>
<td>Howard Isaac Young</td>
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Alumni Directors

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<th>Walter Otto Bode</th>
<th>Dalton Keats Rose</th>
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<td>Arts and Sciences</td>
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<td>John Stevenson Voyles</td>
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Treasurer and Secretary of the Corporation
THOMAS EDWARD BLACKWELL

Office in Robert S. Brookings Hall
Skinker and Lindell Boulevards
Saint Louis 5, Missouri
OFFICERS OF THE UNIVERSITY ADMINISTRATION

THE CENTRAL ADMINISTRATION

Bridge Chancellor:
Arthur Holly Compton, Ph.D., Sc.D., LL.D., Office, 224 Brookings Hall

Vice Chancellor:
Charles Belknap, B.S., Office, 225 Brookings Hall

Dean of Faculties:
Edward Kidder Graham, Ph.D., Acting, Office, 223 Brookings Hall

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

GENERAL ADMINISTRATION

Vice Chancellor:
Charles Belknap, B.S., Office, 225 Brookings Hall

Secretary of the University:
Oliver Filley Richards, B.S., Office, 230 Brookings Hall

Director of Public Relations:
Douglas Vase 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

EDUCATIONAL ADMINISTRATION

Dean of Faculties:
Edward Kidder Graham, Ph.D., Acting, Office, 223 Brookings Hall

Dean of Admissions and Secretary of the Faculty:
William Glasgow Bowling, A.M., Office, 127 Brookings Hall

Admissions Counselors:
Eugene Emil Seubert, A.M., Office, 127 Brookings Hall
Oliver Wyatt Wagner, A.M., Office, 127 Brookings Hall

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

Dean of Men and Director of Student Affairs:
Arno John Haack, A.B., Office, Student Activities Building

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

Librarian:
Jerold Orne, Ph.D., Office, Ridgley Library

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

Director of Physical Education:
Burton Blair Guillion, M.A., Office, Francis Gymnasium
BULLETIN OF WASHINGTON UNIVERSITY

BUSINESS ADMINISTRATION

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

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

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

University Engineer:
Frederick Grant St. Clair, B.S.M.E., M.S.
Office, 113 Brookings Hall

Superintendent, Building and Grounds:
Donald Morrison
Office, 115 Brookings Hall

Manager of Dormitories and Dining Rooms:
Rose Fallenstein
Office, Lee Hall Cafeteria
### Officers of Government and Instruction of the School of Medicine

<table>
<thead>
<tr>
<th>Name</th>
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<th>Education</th>
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<tr>
<td>Robert Allan Moore</td>
<td>Dean</td>
<td>B.A., Ohio State University, 1921; M.S., 1927; M.D., 1928; Ph.D., Western Reserve University, 1930.</td>
</tr>
<tr>
<td>Samuel Burkantz</td>
<td>Assistant Dean</td>
<td>B.S., New York University, 1930; M.D., 1934.</td>
</tr>
<tr>
<td>Merl John Carson</td>
<td>Assistant Dean and Director of the Division of Postgraduate Studies</td>
<td>A.B., University of North Carolina, 1934; M.D., Vanderbilt University, 1939.</td>
</tr>
<tr>
<td>Thomas Harrison Hunter</td>
<td>Assistant Dean in Charge of Students</td>
<td>A.B., Harvard University, 1935; B.A., Cambridge University (England), 1937; M.D., Harvard University, 1940.</td>
</tr>
<tr>
<td>Robert Irving Watson</td>
<td>Assistant Dean</td>
<td>A.B., Dana College, 1923; A.M., Columbia University, 1925; Ph.D., 1938.</td>
</tr>
<tr>
<td>William Bahlmann Parker</td>
<td>Registrar</td>
<td>A.B., University of Missouri, 1921.</td>
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### Emeriti

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<thead>
<tr>
<th>Name</th>
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</tr>
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<tbody>
<tr>
<td>Willard Bartlett</td>
<td>Professor Emeritus of Clinical Surgery</td>
<td>A.B., Illinois College, 1892; A.M., 1898; D.Sc., 1926; M.D., Marion Sims College of Medicine, 1895.</td>
</tr>
<tr>
<td>Vilray Papin Blair</td>
<td>Professor Emeritus of Clinical Surgery</td>
<td>A.M., Christian Brothers College, 1890; M.D., Washington University, 1899.</td>
</tr>
<tr>
<td>Harry Sturgeon Crossen</td>
<td>Professor Emeritus of Clinical Obstetrics and Gynecology</td>
<td>M.D., Washington University, 1892.</td>
</tr>
<tr>
<td>Martin Feeney Engman</td>
<td>Professor Emeritus of Clinical Dermatology</td>
<td>M.D., University of New York, 1891.</td>
</tr>
<tr>
<td>Joseph Erlanger</td>
<td>Professor Emeritus of Physiology</td>
<td>B.S., University of California, 1895; M.D., Johns Hopkins University, 1899; M.D., University of California, 1932; Sc.D., University of Pennsylvania, 1936; Sc.D., University of Wisconsin, 1935; Sc.D., University of Michigan, 1937; Sc.D., Washington University, 1946; LL.D., Johns Hopkins University, 1947; Dr. (Hon.), Free University of Brussels, 1949.</td>
</tr>
<tr>
<td>Leo Loeb</td>
<td>Professor Emeritus of Pathology</td>
<td>M.D., University of Zurich, 1896.</td>
</tr>
<tr>
<td>Harry Webster Lyman</td>
<td>Professor Emeritus of Clinical Otolaryngology</td>
<td>M.D., St. Louis College of Physicians and Surgeons, 1895.</td>
</tr>
<tr>
<td>Sherwood Moore</td>
<td>Professor Emeritus of Radiology</td>
<td>M.D., Washington University, 1905.</td>
</tr>
<tr>
<td>Ernest Sachs</td>
<td>Professor Emeritus of Clinical Neurological Surgery</td>
<td>A.B., Harvard University, 1900; M.D., Johns Hopkins University, 1904.</td>
</tr>
<tr>
<td>Major Gabriel Seelig</td>
<td>Professor Emeritus of Clinical Surgery</td>
<td>A.B., Harvard University, 1896; M.D., Columbia University, 1900.</td>
</tr>
<tr>
<td>Robert James Terry</td>
<td>Professor Emeritus of Anatomy</td>
<td>M.D., Missouri Medical College, 1895; A.B., Washington University, 1901.</td>
</tr>
<tr>
<td>Meyer Wiener</td>
<td>Professor Emeritus of Clinical Ophthalmology</td>
<td>M.D., Missouri Medical College, 1896.</td>
</tr>
<tr>
<td>Adrien Bleyer</td>
<td>Associate Professor Emeritus of Clinical Pediatrics</td>
<td>M.D., Missouri Medical College, 1899.</td>
</tr>
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</table>

1 Appointments as of May 1, 1949.
Warren Philo Elmer . . . . Associate Professor Emeritus of Clinical Medicine
M.D., University of Michigan, 1903; B.S., St. Louis University, 1906.
(1949-50)

Walter Fischel . Associate Professor Emeritus of Clinical Medicine
A.B., Harvard University, 1892; M.D., Washington University, 1905.
(1949-50)

William Frederic Hardy 1 . Associate Professor Emeritus of Clinical Ophthalmology
M.D., Washington University, 1901.

Earl H. Perry . Associate Professor Emeritus of Military Science and Tactics
M.D., University of Pennsylvania (MC), 1903.

Frederic Eno Woodruff . Associate Professor Emeritus of Clinical Ophthalmology
M.D., Missouri Medical College, 1897; A.B., Washington University, 1923.

Frank Henry Ewerhardt 2 . Assistant Professor Emeritus of Physical Therapeutics
M.D., Washington University, 1910.

Adolph George Schlossstein . . . . Assistant Professor Emeritus of Clinical Obstetrics and Gynecology
M.D., St. Louis Medical College, 1894.

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

Thomas E. 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.

Warren Andrew 3 . . . . Visiting Professor of Anatomy
B.A., Carleton College, 1922; M.S., Brown University, 1933; Ph.D., University of Illinois, 1936; M.D., Baylor University, 1943.

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.

1 Deceased, May 4, 1949.
2 Deceased, October 16, 1948.
3 September 13, 1948 to March 13, 1949.
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.

GERTY T. CORI . . . . . Professor of Biological Chemistry
M.D., University of Prague, 1920; Sc.D., Boston University, 1948.

EDMUND VINCENT COWDRY . Professor of Anatomy and Head of the Department
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.

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.

SUE HURT . . . . . Director of the Department of Occupational Therapy
B.S., Richmond Institute of the College of William and Mary, 1945.

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.

SHERWOOD MOORE . Professor of Radiology and Head of the Department, Consultant in Radiology to the Department of Anatomy
M.D., Washington University, 1908.

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.

Professor Emeritus of Radiology, effective July 1, 1949.
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.

GRANDISON DELANEY ROYSTON . Professor of Clinical Obstetrics and Gynecology
M.D., Washington University, 1907.

HENRY GERARD SCHWARTZ . . . . Professor of Neurological Surgery
A.B., Princeton University, 1928; M.D., Johns Hopkins University, 1932.

OTTO HENRY SCHWARZ . Professor of Clinical 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, 1923.

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.

MILDRED TROTTER1 . 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.

BOBEN SMITH VEEDER . . . . Professor of Clinical Pediatrics

THEODORE EDWIN WALSH . Professor of Otolaryngology and Head of the Department

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 WILSON2 . . . . Professor of Radiology and Head of the Department

WILLIAM BARKEY 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, 1816; M.D., 1918.

1 On leave of absence, 1948-49.
2 Effective July 1, 1949.
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.

ADRIEN BLEYER1 . Associate Professor of Clinical Pediatrics
M.D., Missouri Medical College, 1899 (1948-49)

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, 1929; A.M., 1927; Ph.D., Washington University, 1930; M.D., 1933.

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

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, 1924; M.D., 1928.
(Assistant Professor, 1948-49)

WARREN PHILO ELMER2 . Associate Professor of Clinical Medicine
M.D., University of Michigan, 1902; B.S., St. Louis University, 1906.
(1948-49)

JOHN CHARLES FINERTY . Associate Professor of Anatomy
A.B., Kalamazoo College, 1937; M.S., Kansas State College, 1939; Ph.D., University of Wisconsin, 1942.
(Assistant Professor, 1948-49)

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.

HELEN TREDWAY GRAHAM . Associate Professor of Pharmacology
A.B., Bryn Mawr College, 1911; A.M., 1912; Ph.D., University of Chicago, 1915.

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

FRENCH KELLER HANSEL . Associate Professor of Otolaryngology
M.D., St. Louis University, 1918; M.S., University of Minnesota, 1922.

CARL GAYLER HARFORD . Associate Professor of Medicine
A.B., Amherst College, 1928; M.D., Washington University, 1933.
(Assistant Professor, 1948-49)

LOUIS HENRY HEMPELMANN, JR.2 Associate Professor of Biophysics
A.B., Washington University, 1934; M.D., 1938.

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

JOHN E. HOBBS . Associate Professor of Clinical Obstetrics and Gynecology
A.B., Southwest Missouri State Teachers' College, 1923; M.D., Washington University, 1927.
(Assistant Professor of Clinical Obstetrics and Gynecology, 1948-49)

1 Associate Professor Emeritus of Clinical Pediatrics, effective July 1, 1949.
2 Associate Professor Emeritus of Clinical Medicine, effective July 1, 1949.
3 On leave with the Atomic Energy Commission.
MARTIN KAMEN  .  Chemist to the Mallinckrodt Radiological Institute
B.S., University of Chicago, 1930; Ph.D., 1936.

ISAAC DEE KELLEY, Jr.  Associate Professor of Clinical Otolaryngology
B.S., St. Louis University, 1905; M.D., 1908.
(1940-50)

MAURICE EDWARD KRAHL  .  Associate Professor of Biological Chemistry
A.B., De Pauw University, 1929; Ph.D., Johns Hopkins University, 1932.
(Assistant Professor of Pharmacology, 1948-49)

ALBERT INGRAM LANSING  .  Associate Professor of Anatomy
A.B., University of Pennsylvania, 1937; Ph.D., Indiana University, 1941.
(Assistant Professor, 1948-49)

JOSEPH WILLIAM LARIMORE  .  Associate Professor of Clinical Medicine
A.B., De Pauw University, 1908; M.D., Washington University, 1913.

DREW WILLIAM LUTEN  .  Associate Professor of Clinical Medicine
A.B., University of Kentucky, 1901; M.D., Johns Hopkins University, 1911.

CYRIL MITCHELL MACBRYDE  .  Associate Professor of Clinical Medicine
A.B., Washington University, 1926; M.D., Harvard University, 1930.

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

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
A.B., Washington University, 1925; M.D., 1929.
(Assistant Professor of Medicine and of Radiology, 1948-49)

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, 1919.

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.
(Assistant Professor, 1948-49)

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. AYL  .  Assistant Professor of Bacteriology and Immunology
B.A., Brooklyn College, 1945; Ph.D., Iowa State College, 1949.
(1948-50)

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.

2 Resigned December 31, 1948.
2 Effective January 1, 1949.
ROBERT WILSON BARTLETT . . . Assistant Professor of Clinical Surgery
B.S., University of Michigan, 1926; M.D., 1930.

PARKER R. BEAMER1 . . . Assistant Professor of Pathology
A.B., University of Illinois, 1933; M.S., 1937; Ph.D., 1940; M.D., Washington University, 1943.

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
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.
(Instructor in Clinical Medicine, 1948-49)

SAMUEL BUKANTZ . . . Assistant Professor of Medicine
B.S., New York University, 1930; M.D., 1934.
(Instructor, 1948-49)

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

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

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, 1906.

JUSTIN JOSEPH CORDONNIER . . . Assistant Professor of Clinical Genitourinary Surgery
B.S., Washington University, 1926; M.D., 1928.

CLARENCE HARRISON CREGO, JR. . . Assistant Professor of Clinical Orthopedic Surgery
B.S., Union University, 1921; M.D., University of Michigan, 1928.

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

ROGERS DEAKIN Assistant Professor of Clinical Genitourinary Surgery
M.D., Washington University, 1922.

HERBERT R. DOMKE . . . Assistant Professor of Public Health
B.S., University of Chicago, 1939; M.D., 1942; M.P.H., Harvard University, 1948.
(1949-50)

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.

1 Resigned June 30, 1949.
HYMAN HERSCHEL FINGERT  Assistant Professor of Clinical Psychiatry
B.A., State University of Iowa, 1931; M.D., 1934.

WALTER FISCHEL  Assistant Professor of Clinical Medicine
A.B., Harvard University, 1902; M.D., Washington University, 1905.
(1948-49)

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

GILBERT BURNETT FORBES  Assistant Professor of Pediatrics
A.B., University of Rochester, 1938; M.D., 1940.

MARGARET CRANE-LILLIE GILDEA  Assistant Professor of Clinical Psychiatry
B.S., University of Chicago, 1923; M.D., Yale University, 1936.
(Instructor in Clinical Psychiatry, 1948-49)

JOSEPH GITT  Assistant Professor of Clinical Neurology
M.D., Washington University, 1930.
(Instructor in Clinical Psychiatry, 1948-49)

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

ALFRED GOLDMAN  Assistant Professor of Clinical Medicine

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.

THOMAS HARRISON HUNTER  Assistant Professor of Medicine
M.D., Washington University, 1918; M.D., 1920.

FRANCIS EDMUND HUNTER  Assistant Professor of Pharmacology
E.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.

ISAAC DEE KELLEY, JR.  Assistant Professor of Clinical Otolaryngology
B.S., St. Louis University, 1905; M.D., 1908.
(1948-49)

BRUCE DELOZIER KENAMORE  Assistant Professor of Clinical Medicine
A.B., Washington University, 1935; M.D., 1935.
(Instructor in Clinical Medicine, 1948-49)

1 Associate Professor Emeritus of Clinical Medicine, effective July 1, 1949.
THE SCHOOL OF MEDICINE

George David Kettelkamp. Assistant Professor of Clinical Medicine. A.B., Central Wesleyan College, 1910; M.D., Washington University, 1914.

Esbek Kirk. Assistant Professor of Medicine and Director of Research in the Division of Gerontology. M.A.M.S., University of Copenhagen, 1923; M.Philos., 1924; M.D., 1926.


Otto St. Clair Krebs. Assistant Professor of Clinical Obstetrics and Gynecology. B.S., Washington University, 1917; M.D., 1919.

J. Oliver Lampen. Assistant Professor of Biological Chemistry. A.B., Hope College, 1939; Ph.D., University of Wisconsin, 1943.

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.


Edward Massie. Assistant Professor of Clinical Medicine. A.B., Washington University, 1931; M.D., 1933.

William H. Masters. Assistant Professor of Obstetrics and Gynecology. B.S., Hamilton College, 1938; M.D., University of Rochester, 1948. (Instructor, 1948-49)


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. (1949-50)

Ivan Norman Mensh. Assistant Professor of Medical Psychology. A.B., George Washington University, 1940; A.M., 1942; Ph.D., Northwestern University, 1948. (Instructor, 1948-49)

Hans Barso Molholm. Assistant Professor of Clinical Psychiatry. A.B., Harvard University, 1926, M.D., 1931.
CHARLES DARRELL O’KEEFE . Assistant Professor of Clinical Obstetrics and Gynecology
A.B., University of Missouri, 1916; M.D., Washington University, 1918.

NORMAN STANLEY OLSEN . Assistant Professor of Biological Chemistry
B.S., College of the City of New York, 1935; Ph.D., University of Minnesota, 1942.

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

ERNEST HOLDEN PARSONS . Assistant Professor of Psychiatry
B.A., Vanderbilt University, 1927; M.D., 1930.

JOHN FRANKLIN PATTON . Assistant Professor of Clinical Genitourinary Surgery
M.D., Washington University, 1928.

PAUL WILLIAM PREISLER . Assistant Professor of Biological Chemistry
B.S., Washington University, 1923; M.S., 1925; Ph.D., 1937.

J. G. PROBSTAIN . Assistant Professor of Clinical Surgery
M.D., Loyola University, 1917.

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

LLEWELLYN SALE . Assistant Professor of Clinical Medicine
M.D., Washington University, 1907.

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.

GEORGE MURDOCH SAUNDERS Assistant Professor of Preventive Medicine
B.A., University of Wisconsin, 1923; M.D., Harvard University, 1925.

JOHN ALBION SAXTON . Assistant Professor of Pathology
A.B., Yale University, 1929; M.D., Washington University, 1934.

GORDON SCHOEPPLE . Assistant Professor of Physiology
A.B., De Pauw University, 1927; 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.

(1948-49)

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

CECIL AUGUSTUS ZACHARY SHARP1 Assistant Professor of Public Health
B.S.M., University of Geneva, 1922; M.D., 1923; M.S.P.H., University of Michigan, 1933.

WILLIAM WARNER SLEATOR, JR.2 Assistant Professor of Biophysics in Physiology
A.B., University of Michigan, 1938; M.S., 1939; Ph.D., 1946.

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

1 Resigned, November 30, 1948.
2 Effective November 1, 1948.
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  
B.S., Harvard University, 1912; M.D., 1917.

BARRETT LEARNED TAUSIG . 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, 1929; M.D., Johns Hopkins University, 1932.

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

HIROMU TSUCHIYA . . Assistant Professor of Parasitology  
A.B., University of Missouri, 1913; Sc.D., Johns Hopkins University, 1920.

LOUIS LEON TUREEN . . Assistant Professor of Clinical Neurology  
B.S., Washington University, 1925; M.D., 1927.

PHILIP LEONARD VARNEY . . Assistant Professor of Bacteriology and Immunology  
B.S., Oregon Agricultural College, 1923; M.S., Washington University, 1926; Ph.D., 1928.

SHEPPARD MATTHEW WALKER . . Assistant Professor of Physiology  
B.S., Western Kentucky State Teachers College, 1922; A.M., 1925; Ph.D., Louisiana State University, 1941.

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., Williams 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 Kolozsvar, 1914.

RESEARCH ASSOCIATES

CHRISTOPHER CARRUTHERS . . Research Associate in Cancer  
B.S., Syracuse University, 1933; M.S., 1935; Ph.D., State University of Iowa, 1938.

ANNA REUBENIA DUBACH . . Research Associate in Medicine  
A.B., Bryn Mawr College, 1919; M.S., University of Colorado, 1925; Ph.D., 1938.
VIRGINIA MINNICH . . . . Research Associate in Medicine
B.S., Ohio State University, 1937; M.S., Iowa State College, 1938.

MILDRED COHN PRIMAKOFF Research Associate in Biological Chemistry
B.A., Hunter College, 1931; Ph.D., Columbia University, 1937.

EUGENE ROBERTS . . . . Research Associate in Cancer
B.S., Wayne University, 1940; M.S., University of Michigan, 1942; Ph.D., 1945.

THEODORE ROSENTHAL Research Associate in Cancer and in Physiology
B.S., Yale University, 1936; Ph.D., 1941.

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 SUNTZEF Research Associate in Cancer
M.D., Women's Medical Institute, Petrograd, Russia, 1917.

LLOYD E. THOMAS . . . . Research Associate in Cancer
Ph.D., Stanford University. (July 1 to July 31, 1948)

THEODORE EDWIN WEICHSELBAUM Research Associate in Surgery
B.S., Emory University, 1930; Ph.D., University of Edinburgh (Scotland), 1936.

ANITA ZORZOLI . . . . Research Associate in Pharmacology
A.B., Hunter College, 1938; M.A., Columbia University, 1940; Ph.D., New York University, 1945.

INSTRUCTORS

HARRY AGRESS . . . . Instructor in Clinical Medicine
B.S., Washington University, 1922; M.D., 1922.

LOUIS F. AITKEN . . . . Instructor in Clinical Medicine
B.S., University of Illinois, 1923; M.D., Washington University, 1927.

EDMUND B. ALVIS . . . . Instructor in Clinical Ophthalmology
M.D., Washington University, 1934.

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.

FRANK L. BECKEL Instructor in Pathology
(1949-50)

ROBERT MALCOLM BELL Instructor in Clinical Psychiatry
M.D., St. Louis University, 1928.

GRACE ELIZABETH BERGNER Instructor in Clinical Medicine
A.B., Washington University, 1939; M.D., 1943.

DAVID BISHOessor in Clinical Ophthalmology
A.B., University of Wisconsin, 1927; M.D., Johns Hopkins University, 1931.

LOREN FRANCIS BLANEY Instructor in Clinical Medicine
A.B., Washington University, 1934; M.D., 1938.

1 In residence at Los Alamos, New Mexico.
ARTHUR ROBERT BORTNICK . . . Instructor in Clinical Obstetrics and Gynecology
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.

JOSEPH FRANCIS BREDECK1 . . . Instructor in Clinical Medicine and Lecturer in Public Health
A.B., Christian Brothers College, 1910; M.D., Washington University, 1914; D.P.H., University of Pennsylvania, 1917.

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

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 Social Service in Neuropsychiatry
A.B., Elmhurst College, 1931.

ANTHONY KARL BUSCH . . . . . . Instructor in Clinical Psychiatry
M.B., St. Louis University, 1937.

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

DOROTHY MILDRED CASE Instructor in Pediatrics and in Child Psychiatry and Assistant Director of the Child Guidance Clinic
M.D., Washington University, 1943.

BENJAMIN HYNES CHARLES . . . . . Instructor in Clinical Medicine
M.B., Ch.B., University of Edinburgh, 1934.
(Assistant in Clinical Medicine, 1948-49)

WILLIAM GOODWIN COLEMAN . . . . Instructor in Clinical Dermatology
B.S., Washington University, 1917; M.D., 1919.

ADOLPH HENRY CONRAD, JR. . . . . Instructor in Clinical Dermatology
A.B., Washington University, 1934; M.D., 1938.
(Assistant in Clinical Medicine, 1948-49)

CYRIL JOSEPH COSTELLO . . . . . . Instructor in Clinical Surgery
B.S., University of Texas, 1936; M.D., 1939.

JAY CRAWFORD . . . . . . Instructor in Ophthalmology
A.B., Mifflintown Academy, 1902; B.S., Spring Garden Institute, 1905; M.D., Temple Medical College, 1906.
(Instruction in Clinical Medicine, 1948-49)

HAROLD CUTLER . . . . . . Instructor in Clinical Otolaryngology
M.D., Tufts College, 1937.

DEAN FLETCHER DAVIES . . . . . . Instructor in Medicine
A.B., College of Wooster, 1939; Ph.D., Western Reserve University, 1943; M.D., 1945.

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

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

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

1 Deceased, October 4, 1948.
ELIZABETH BRYAN DEISHER . . . . . . . Instructor in Pediatrics
A.B., Western Reserve University, 1933; M.D., 1937.

(March 1, 1949 to June 30, 1949)

MAX DEUTCH . . . . . . . Instructor in Clinical Pediatrics
M.D., Washington University, 1926.

FRANK J. DIXON, JR. . . . . . . . Instructor in Pathology
A.B., E.B., University of Minnesota, 1941; M.D., 1943; M.D., 1944.

TRUMAN GUTHRED DRAKE, JR. . . . . . . . Instructor in Clinical Medicine
A.B., Washington University, 1929; M.D., 1933.

JOSEPH CASTRO EDWARDS . . . . . . . Instructor in Clinical Medicine
A.B., University of Oklahoma, 1930; M.D., Harvard University, 1934.

ROBERT WILLIAM ELLIOTT . . . . . . . Instructor in Clinical Medicine
A.B., Washington University, 1932; M.D., 1936.

JULIUS ELSOZ . . . . . . . Instructor in Clinical Medicine
M.D., Washington University, 1928.

FELICE EMERY . . . . . . . Instructor in Clinical Psychiatry
A.B., Bryn Mawr College, 1924; M.D., Columbia University, 1927.

MARTIN PENNEY 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.

ISRAEL JEROME FLANCE . . . . . . . Instructor in Clinical Medicine
A.B., Washington University, 1931; M.D., 1933.

(Due in Clinical Medicine, 1948-49)

DOROTHY L. FLINT . . . . . . . Instructor in Occupational Therapy

ADA WELLS FORD . . . . . . . Instructor in Occupational Therapy

JOHN BALL FREIRICH . . . . . . . Instructor in Pathology
A.B., Washington University, 1934; 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.

RUTH BARKER GERSTUNG . . . . . . . Instructor in Bacteriology in Pediatrics
B.A., Washington University, 1917.

ROBERT JOY GLASER . . . . . . . Instructor in Medicine
S.B., Harvard University, 1940; M.D., 1943.

(Jean Fellow in Medicine, 1948-49)

JAMES S. GLOTTERTY . . . . . . . Instructor in Clinical Psychology
M.D., State University of Iowa, 1934.

DAVID GOLDRING . . . . . . . Instructor in Pediatrics
A.B., Washington University, 1936; M.D., 1940.

JAMES GOODFRIEND . . . . . . . Instructor in Pediatrics
B.A., University of Missouri, 1934; Ph.D., Oxford University, 1935; M.D., Northwestern University, 1940.

1 Effective October 1, 1948.
2 Effective September 1, 1948.
3 Effective January 1, 1949.
4 Deceased, July 5, 1948.
SAMUEL GRANICK . . . . . . Instructor in Medical Psychology  
B.S., College of the City of New York, 1937; M.S., 1941.

OTTO HENRY WILLIAM GRUNOW . . . . . . Instructor in Radiology  
A.B., University of California, 1936; M.D., Washington University, 1940.

HEINZ HAPFFNER . . . . . . 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, 1938; M.D., 1939.

RAYMOND FRANCIS HOLDEN, JR. . . . . . . Instructor in Clinical Medicine  
B.A., Washington University, 1933; M.D., 1933.

EDWARD C. HOLSCHER . . . . . . Instructor in Clinical Orthopedic Surgery  
A.B., University of Missouri, 1933; B.S., 1935; M.D., Harvard University, 1935.

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

FREDERICK AUGUST JACOBS . . . . . . Instructor in Clinical Pediatrics  
B.S., Washington University, 1927; M.D., 1928.

SYDNEY EVANS JAYNES . . . . . . Dentist to the Department of Pediatrics  
D.M.D., University of Louisville, 1946. (1948-49)

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

RICHARD JOHNSON . . . . . . Assistant 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.

MILTON KANNERSTEIN . . . . . . Instructor in Pathology  
A.B., Temple University, 1932; M.D., 1936.

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.

ROBERT WILSON KELLEY . . . . . . Instructor in Clinical Medicine  
A.B., Southwestern College, 1932; M.D., Washington University, 1936.

DAVID NAPE KERR . . . . . . Instructor in Clinical Medicine  
A.B., University of Colorado, 1936; M.D., Washington University, 1941.

ROBERT C. KINGSLAND . . . . . . Instructor in Clinical Medicine  
A.B., Washington University, 1933; M.D., 1937.

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, 1942.

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, 1945; M.D., 1947.  
(Assistant in Anatomy, 1948-49)

Franz Leidler . . . . . . . . Instructor in Pathology  
M.D., University of Vienna, 1928; M.S., Kansas State College, 1941.  
(Assistant in Pathology, 1948-49)

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  
A.B., Real-Gymnasium, Cassel, Germany, 1910; M.D., University of Heidelberg, 1918.

Hiram Shaw Liggett . . . . . . . . Instructor in Clinical Medicine  
M.D., Washington University, 1920.

Carl Edward Lischer . . . . . . . . Instructor in Clinical Surgery  
A.B., University of California, 1932; M.D., Washington University, 1937.

Sol Londe . . . . . . . . Instructor in Clinical Pediatrics  
B.S., Washington University, 1926; M.D., 1927.

Maurice Julius Lonsway . . . . . . . . Instructor in Clinical Pediatrics  
B.S., Valparaiso University, 1910; M.D., St. Louis University, 1914.  
(Assistant in Clinical Pediatrics, 1948-49)

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.  
(Assistant in Clinical Dermatology, 1948-49)

Robert Dean Mattis . . . . . . . . Instructor in Clinical Ophthalmology  
B.S., St. Louis University, 1935; M.D., 1937.

Richard Wesley Maxwell . . . . . . . . Instructor in Clinical Medicine and in Clinical Radiology  
A.B., Greenville College, 1923; M.D., University of Chicago, 1927.

William Henry Meinberg, Jr. . Instructor in Clinical Ophthalmology  
B.S., in Medical Science, Washington University, 1932; M.D., 1932.

Milton Herman Meyerhardt . Instructor in Clinical Obstetrics and Gynecology  
A.B., University of Missouri, 1927; M.D., St. Louis University, 1929.

Benjamin Mildor . . . . . . . . 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.  
(Instructor in Obstetrics and Gynecology, July 1 to December 31, 1948)

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. (Assistant in Clinical Medicine, 1948-49)


JOSEPH H. OUGRA . . . . . . Instructor in Otolaryngology A.B., University of California, 1937; M.D., 1941.

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

ROBERT PAINE . . . . . . . . . . . . Instructor in Medicine M.D., Harvard University, 1944. (Research Fellow in Medicine, 1948-49)

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 A.B., William Jewell College, 1916; M.D., St. Louis University, 1924.

G. O'NEIL PROUD . . . . . . Instructor in Otolaryngology A.B., University of Missouri, 1936; M.D., Washington University, 1939.


ANNE M. RITTER . . . . . . . . . . . Instructor in Medical Psychology B.A., George Washington University, 1944; M.A., Columbia University, 1946; Ph.D., 1948.

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

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

WILLIAM J. ROBINSON . . . . . Instructor in Clinical Psychiatry M.D., Medical College of Virginia, 1939.

MAURICE BERNARD ROCHE . . . . . Instructor in Clinical Orthopedic Surgery M.D., St. Louis University, 1933.

EDWIN HENRY ROHLING . . . . . . Instructor in Clinical Pediatrics M.D., Washington University, 1919.

ALBERT ROOS . . . . . . . . . . . Instructor in Physiology and in Surgery M.D., University of Groningen (Holland), 1940.

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

HARRY DAVID ROSENFELD . . . . . . Instructor in Clinical Ophthalmology M.D., Washington University, 1934.

HERMAN JOHN ROSENFELD . . . . . . Instructor in Clinical Medicine M.D., University of Munich (Germany), 1923.


GEORGE E. ROUTH . . . . . . Instructor in Neurological Surgery M.D., Vanderbilt University, 1933.

ERNEST T. ROUSE, JR. . . . . . . Instructor in Clinical Medicine B.S., Alabama Polytechnic Institute, 1939; M.D., Washington University, 1943. (Assistant in Medicine, 1948-49)

GEORGE ROWE . . . . . . . . . . . . Instructor in Anatomy M.D., University of Wisconsin, 1945.
WAYNE ARTHUR RUFE . . . . . . . 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, 1938; M.D., 1949.  
(1949-50)

LEWELLYN 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, 1905.

M. H. SCHEELE . . . . . . . Instructor in Clinical Dermatology  
M.D., University of Toronto, 1931.

BEATRICE SCHULZ . . . . . . . Instructor in Physical Therapy  
B.S., Washington University, 1949.  
(1949-50)

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

WILLARD CALVIN SCRIVNER . . Instructor in Clinical Obstetrics and Gynecology  
B.S., Washington University, 1925; M.D., 1930.

WILLIAM BERNARD SEAMEN . . . . . . . Instructor in Radiology  
M.D., Harvard University, 1941.

JOHN WICKHAM SEDDON . . . . . . . Instructor in Clinical Medicine  
Ph.B., Yale University, 1931; M.D., Washington University, 1933.

PHILIP T. SHAHAN . . . . . . . Instructor in 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.  
(Fellow in Psychiatry, 1948-49)

MARTIN SILBERBERG . . . . . . . Instructor in Pathology  
M.D., University of Breslau, 1920.

RUTH M. SILBERBERG . . . . . . . Instructor in Pathology  
M.D., University of Breslau, 1921.

DAVID MILLER SKILLING, JR . . . . . . . Instructor in Clinical Medicine  
B.S., Washington and Jefferson College, 1928; M.D., Washington University, 1938.

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.  
(Assistant in Clinical Medicine, 1948-49)

ROBERT MOORE SMITH . . . . . . . Instructor in Clinical Medicine  
A.B., Washington University, 1936; M.D., 1940.  
(Assistant in Clinical Medicine, 1948-49)

FRANZ ULRICH STEINBERG . . . . . . . Instructor in Clinical Medicine  
M.D., University of Berne (Switzerland), 1938.  
(assistant in Clinical Medicine, 1948-49)

CARLISSE 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 SURTSHIN1 . . . . . . . Instructor in Physiology  
A.B., Columbia University, 1936; M.D., St. Louis University, 1941.

1 Effective February 1, 1949.
THE SCHOOL OF MEDICINE

EARL SUTHERLAND . . . . . . . Instructor in Biological Chemistry
B.S., Washburn College, 1937; M.D., Washington University, 1942.

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

DONALD LIONELL THURSTON . . . . Instructor in Pediatrics
B.S., Vanderbilt University, 1934; M.D., 1937.

SIDNEY UDENFRIEND . . . . . . Instructor in Biological Chemistry
B.S., New York University, 1939; Ph.D., 1948.

FREDERICK R. VEEDER . . . . . . Instructor in Hospital Administration and
Assistant Director of the Course in Hospital Administration
B.A., University of Montana, 1931; M.A., University of Chicago, 1938.

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., 1932.

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., 1932.

JOHN HARRISON WEDIG . . . . . . . Instructor in Clinical Medicine
M.D., Washington University, 1928.
(Assistant in Clinical Medicine, 1948-49)

HARRY WILLIAM WIESE . . . . Instructor in Clinical Medicine
B.S., Washington University, 1929; M.D., 1922.

ARNOLD H. WILLIAMS . . . . . . . Instructor in Physiology in Medicine
B.S., Harvard University, 1939; M.D., Western Reserve University, 1943.
(Research Assistant in Medicine, 1948-49)

RALPH BENSON WOOLF . . . . . . Instructor in Obstetrics and Gynecology
B.S., Massachusetts Institute of Technology, 1935; M.D., University of Rochester, 1939.
(Assistant in Obstetrics and Gynecology, 1948-49)

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

THOMAS LACLEDE YOUNG . . . . . . . Instructor in Pathology
A.B., Washington University, 1937; M.D., Harvard University, 1941.
(Asistant in Pathology, 1948-49)

OSCAR CHARLES ZINK . . . . . . . . Instructor in Clinical Radiology
M.D., Washington University, 1924.

ASSISTANTS

OLIVER ABEL, JR. . . . . . . . Assistant in Clinical Medicine
B.S., Washington University, 1922; M.D., 1923.

PHILIP ACKERMAN . . . . . . . Research Assistant (assigned to the Division of
Gerontology)
B.S., University of Oregon, 1931; Ph.D., Johns Hopkins University, 1936.

LOUIS ERNEST ADIN, JR. . . . . Assistant in Otolaryngology
B.A., Southern Methodist University, 1939; M.D., Baylor University, 1943.
(July 1 to December 31, 1949)

FRANK L. ADLER1 . . . . . . . Assistant in Bacteriology and Immunology
M.S., University of Kentucky, 1949.

1 Effective September 1, 1949.
HELEN MARGARET APP  . . . . . . . Assistant in Clinical Pediatrics  
B.S., Washington University, 1934; M.D., 1934. 

MORRIS ALEX  . . . . . . . Research Assistant in Anatomy  
B.S. in Medicine, University of Missouri, 1942; M.D., Washington University, 1945.  
(July 1 to December 31, 1949)  

HUBERT LEE ALLEN  . Assistant in Clinical Obstetrics and Gynecology  
A.B., University of Kansas, 1932; M.D., Tulane University, 1936.  

JERRY H. ALLEN, JR  . . . . . . . Assistant in Surgery  
A.B., University of North Carolina, 1938; M.A., 1940; M.D., Washington University, 1943.  
(1948-49)  

CARL JACOB ALTHAUS  . Assistant in Clinical Genitourinary Surgery  
M.D., St. Louis University, 1917.  

ENOR GILBERT ANDERSON  . . . . . . . Assistant in Radiology  
B.A., Macalester College, 1924; M.D., Washington University, 1928.  
(July 1 to October 31, 1948)  

WILLIAM FREDRICK ANDREW  . . . . . . . Assistant in Otolaryngology  
B.S. in Medicine, University of Missouri, 1943; M.D., Washington University, 1945.  
(1949-50)  

ROBERT ANSCHUETZ  . . . . . . . Assistant in Surgery  
M.D., Washington University, 1940.  
(1948-49)  

DALLAS DEAN ANTHONY  . . . . . . . Assistant in Radiology  
B.S., Drury College, 1939; M.D., Washington University, 1943.  

AUGUST C. ARMININI, JR  . . . . . . . Assistant in Pathology  
A.B., San Jose State College, 1942; M.D., Stanford University, 1945.  
(1948-49)  

BRUCE FRANKLIN AVERY  . . . . . . . Assistant in Pathology  
M.D., Northwestern University, 1941.  

ADOLPH A. BALUKA  . . . . . . . Assistant in Clinical Occupational Therapy  

MAX BALDRIDGE  . . . . . . . Assistant in Ophthalmology  
B.S., University of Arkansas, 1938; M.D., 1938.  

JOHN WASHINGTON BASSETT  . . . . . . . Assistant in Surgery  
B.S., University of Arkansas, 1942; M.D., Tulane University, 1944.  

J. BYRON BEARE1  . . . . . . . Assistant in Clinical Genitourinary Surgery  
M.D., St. Louis University, 1939.  

CLIFTON HAROLD BEASLEY  . . . . . . . Assistant in Clinical Ophthalmology  
B.S., University of Arkansas, 1938; M.D., 1941.  
(1949-50)  

JOSE BELLO  . . . . . . . Assistant in Otolaryngology  
M.D., University of Buenos Aires, 1947.  
(1949-50)  

BERNARD ARAN BERCU  . . . . . . . Assistant in Medicine  
M.D., Washington University, 1944.  
(1948-49)  

RALPH BERC, JR  . . . . . . . Assistant in Surgery  
B.S., State College of Washington, 1943; M.D., Washington University, 1945.  

MARGUERITE BICK  . . . . . . . Assistant in Clinical Occupational Therapy  

IRVIN MYRON BIRENBOIM  . . . . . . . Assistant in Otolaryngology  
A.B., Washington University, 1942; M.D., 1944.  
(1948-49)  

HOMER C. BISHOP  . . . . . . . Assistant in Occupational Therapy  
A.B., De Pauw University, 1935; M.S.W., Washington University, 1948.  

1 Effective December 1, 1948.
VILRAY PAPIN BLAIR, JR.  Assistant in Clinical Orthopedic Surgery  
M.D., Washington University, 1939.

DAVID BLANCHET  . . . .  Assistant in Obstetrics and Gynecology  
B.S., St. Lawrence University, 1945; M.D., University of Rochester, 1948.

CLIFFORD READ BOLES  . . . .  Assistant in Clinical Pediatrics  
A.B., Washington University, 1940; M.D., 1943.  (Assistant in Pediatrics, July 1 to December 31, 1948)

LOYCE BONNER  . . . .  Assistant in Psychiatric Social Work  
(1949-50)

HENRY WILLIAM BOFF, JR.  . . . .  Assistant in Surgery  
M.D., Washington University, 1945.

ROBERT DUNLAP BROOKE  . . . .  Assistant in Clinical Neurology  
A.B., De Pauw University, 1934; M.D., Washington University, 1938.

HARVEY RAYMOND BUTCHER  . . . .  Assistant in Surgery  
A.B., Central College, 1941; M.D., Harvard University, 1944.

WILSON JEWETT BERWINER, JR.  . . . .  Assistant in Otolaryngology  
A.B., University of Cincinnati, 1942; M.D., 1944.  (1948-49)

MARGUERITE CANNON  . . . .  Assistant in Psychiatric Social Work  
M.S.W., Washington University, 1947.  (1949-50)

BETTY CARLIN  . . . .  Research Assistant in Pathology  
(1948-49)

JOHN LACKIE PATRICK CARNEY  . . . .  Assistant in Otolaryngology  
B.S., University of North Dakota, 1935; M.D., Rush Medical College, 1937.  
(July 1 to December 31, 1948)

MARGARET ANN CARTER  . . . .  Assistant in Pathology  
A.B., Washington University, 1934; M.D., 1938.  
(Fellow in Pathology, 1948-49)

WILLIAM ROBERT CATE, JR.  . . . .  Assistant in Surgery  
B.A., Vanderbilt University, 1943; M.D., 1945.

ARTHUR HARRY CHAPMAN  . . . .  Assistant in Neuropsychiatry  
B.S., Yale University, 1944; M.D., 1947

LEWIS S. CHASE  . . . .  Assistant in Pathology  
B.A., University of Virginia, 1942; M.D., 1948.  
(1948-49)

AMOZ I. CHERNOFF  . . . .  Assistant in Medicine  
B.S., Yale University, 1943; M.D., 1947.  
(1948-49)

MARGARET CHIEFFI  . Research Assistant (assigned to the Division of  
Gerontology)  
M.D., University of New Zealand, 1937.

DAVID SANFORD CITRON  . . . .  Assistant in Medicine  
A.B., University of North Carolina, 1941; M.D., Washington University, 1944.  
(1948-49)

MARGARET HELEN CLARE  . Research Assistant in Neurophysiology and  
Physical Medicine  
B.S. in Education, Southwest Missouri State College, 1940.

1 Effective January 1, 1949.
2 Effective July 22, 1948.
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Institution(s)</th>
<th>Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Helen Estelle Clark</td>
<td>Assistant in Medicine</td>
<td>B.S., University of Wyoming, 1944; M.D., Washington University, 1948.</td>
<td>1949-50</td>
</tr>
<tr>
<td>William Addison Clay</td>
<td>Assistant in Medicine</td>
<td>A.B., American University, 1941; M.D., University of Rochester, 1946.</td>
<td>1948-49</td>
</tr>
<tr>
<td>John Lloyd Cockrell</td>
<td>Assistant in Obstetrics and Gynecology</td>
<td>A.B., University of Missouri, 1939; B.S. in Medicine, 1941; M.A., 1941; M.D., Washington University, 1943.</td>
<td>1948-49</td>
</tr>
<tr>
<td>Rosellen Cornberg</td>
<td>Assistant in Pediatrics</td>
<td>A.B., Washington University, 1944; M.D., 1947.</td>
<td>1949-50</td>
</tr>
<tr>
<td>Carl L. Cook, Jr.</td>
<td>Assistant in Medicine</td>
<td>M.D., Yale University, 1946.</td>
<td></td>
</tr>
<tr>
<td>Marvin Cornblath</td>
<td>Assistant in Pediatrics</td>
<td>M.D., Washington University, 1947.</td>
<td></td>
</tr>
<tr>
<td>Robert Milton Counts</td>
<td>Assistant in Neuropsychiatry</td>
<td>M.D., Washington University, 1947.</td>
<td></td>
</tr>
<tr>
<td>James Hewitt Crayens</td>
<td>Assistant in Pediatrics</td>
<td>B.S., University of Illinois, 1941; M.D., Washington University, 1942.</td>
<td></td>
</tr>
<tr>
<td>John Lee Crites</td>
<td>Assistant in Obstetrics and Gynecology</td>
<td>A.B., Denison University, 1939; B.S., West Virginia University, 1941; M.D., Washington University, 1943.</td>
<td></td>
</tr>
<tr>
<td>Harry Cutler</td>
<td>Assistant in Clinical Genitourinary Surgery</td>
<td>M.D., St. Louis University, 1930.</td>
<td></td>
</tr>
<tr>
<td>Charles William Daeschner, Jr.</td>
<td>Assistant in Pediatrics</td>
<td>B.A., Rice Institute, 1942; M.D., University of Texas, 1946.</td>
<td>1949-50</td>
</tr>
<tr>
<td>William Monroe Daily</td>
<td>Assistant in Medicine</td>
<td>A.B., Ouachita College, 1937; M.D., University of Arkansas, 1941.</td>
<td>1948-49</td>
</tr>
<tr>
<td>Morris Davidson</td>
<td>Assistant in Clinical Otolaryngology</td>
<td>B.S., Indiana University, 1926; M.D., 1938.</td>
<td></td>
</tr>
<tr>
<td>Oliver Francis Deen, Jr.</td>
<td>Assistant in Pediatrics</td>
<td>M.D., University of Georgia, 1944.</td>
<td>(January 1 to June 30, 1949)</td>
</tr>
<tr>
<td>Robert William Deisher</td>
<td>Assistant in Pediatrics</td>
<td>M.D., Washington University, 1944.</td>
<td>(February 1 to June 30, 1949)</td>
</tr>
<tr>
<td>Charlton de Saussure</td>
<td>Assistant in Medicine</td>
<td>A.B., Princeton University, 1912; M.D., Johns Hopkins University, 1945.</td>
<td></td>
</tr>
<tr>
<td>Sanford Roy Dietrich</td>
<td>Assistant in Surgery</td>
<td>A.B., Yale University, 1941; M.D., 1944.</td>
<td></td>
</tr>
<tr>
<td>Norman Walter Drey</td>
<td>Assistant in Clinical Medicine</td>
<td>A.B., Princeton University, 1932; M.D., Washington University, 1936.</td>
<td></td>
</tr>
<tr>
<td>Oliver H. Duggins</td>
<td>Research Assistant in Anatomy</td>
<td>B.S., Northwestern University, 1934; M.S., 1936.</td>
<td></td>
</tr>
<tr>
<td>Ancel Earp, Jr.</td>
<td>Assistant in Pathology</td>
<td>M.D., University of Oklahoma, 1947.</td>
<td>(1948-49)</td>
</tr>
<tr>
<td>Frank R. L. Eggloff</td>
<td>Assistant in Neuropsychiatry</td>
<td>M.D., Harvard University, 1947.</td>
<td>(1949-50)</td>
</tr>
</tbody>
</table>

1 Resigned September 30, 1948.
2 Effective May 1, 1949.
BEN EISEMAN  Assistant in Surgery
A.B., Yale University, 1939; M.D., Harvard University, 1948.

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.

ALONZA LEWIS FARR  Research Assistant in Pharmacology
B.S., Millsaps College, 1941; M.D., Washington University, 1947.
(Asst. in Medicine, 1948-49)

WESLEY STREET FEE  Assistant in Radiology
A.B., University of Arizona, 1941; M.D., Washington University, 1944.
(1949-50)

HARRY WILLIAM FISCHER  Assistant in Surgery
B.S., University of Chicago, 1943; M.D., 1945.
(Fellow in General Surgery, April 1 to December 31, 1949)

WIRGIL OTTO FISH  Assistant in Clinical Surgery
M.D., Washington University, 1939.

ALFRED FLEISHMAN  Assistant in Clinical Medicine
B.S., Washington University, 1933; M.D., 1935.

LEE T. FORD, JR.  Assistant in Clinical Orthopedic Surgery
M.D., University of Tennessee, 1940.
(Fellow in Orthopedic Surgery, July 1 to December 31, 1948)

BRUCE TODD FORSYTH  Assistant in Medicine
M.D., Washington University, 1947.
(1948-49)

LEON J. FOX  Assistant in Clinical Orthopedic Surgery
B.S. in M.S., Washington University, 1933; M.D., 1939.

CECIL SHEFFIELD FRANKS  Assistant in Otolaryngology
M.D., University of Tennessee, 1945.
(1949-50)

HAROLD E. FREEDMAN  Assistant in Clinical Medicine
Ph.B., Yale University, 1939; M.D., Washington University, 1938.

RUTH SCHREIBER FREEDMAN  Assistant in Clinical Ophthalmology
A.B., Washington University, 1938; M.D., 1942.

DAVID MERRILL FREEMAN  Assistant in Ophthalmology
A.B., University of Missouri, 1940; B.S. in Medicine, 1941; M.D., Washington
University, 1943.
(From July 1, 1948 to February 25, 1950)

HERBERT CARL FRITZ  Assistant in Medicine
A.B., Washington University, 1940; M.D., 1943.
(1948-49)

HELEN GAGE  Assistant in Clinical Otolaryngology
B.S., University of Michigan, 1916; M.D., 1918.

ROBERT CARLYLE GARNER  Assistant in Pediatrics
(1949-50)

GEORGE CHARLES GAY  Assistant in Otolaryngology
M.D., College of Medical Evangelists, 1944.
(1948-49)

HOWARD GEST  Research Assistant in Radiology
A.B., University of California at Los Angeles, 1942.

RALPH VICTOR GIESELMAN  Assistant in Medicine
M.D., Washington University, 1947.

1 Effective March 1, 1949.
BERTRAND YOUNKER GLASSBERG  .  .  .  .  .  Assistant in Clinical Medicine
B.S., Washington University, 1923; M.D., 1925.

VERNE FREDRICK GOERGER  .  .  .  .  .  Assistant in Clinical Medicine
A.B., Washington University, 1936; M.D., 1940.

JANET GOLDEN  .  .  .  .  .  .  .  .  .  .  .  .  .  Assistant in Psychiatric Social Work
A.B., Washington University, 1924.

MELVIN GOLDMAN  .  .  .  .  .  .  .  .  .  .  .  .  .  Assistant in Clinical Medicine
A.B., Washington University, 1929; M.D., 1942.
(Research Assistant in Medicine, July 1 to December 31, 1948)

SAMUEL WALTER GOLLUB  .  .  .  .  .  .  .  .  Assistant in Clinical Pediatrics
B.S., in Med. Sci., Washington University, 1941; M.D., 1941.

JAMES TUCKER GOOD  .  .  .  .  .  .  .  .  .  .  .  Assistant in Medicine
A.B., University of Kansas, 1942; M.D., Washington University, 1945.
(1948-49)

DONALD WELLS GOODRICH  .  .  .  .  .  .  .  .  Assistant in Neuropsychiatry
M.D., Harvard University, 1947.
(1948-49)

BERNARD S. GORDON  .  .  .  .  .  .  .  .  .  .  .  Assistant in Neuropsychiatry
A.B., University of Michigan, 1937; M.D., University of Louisville, 1942.
(July 1 to 31, 1948)

LEO FRANCIS GOWEN  .  .  .  .  .  .  .  .  .  .  .  Assistant in Clinical Pediatrics
A.B., Overbrook College, 1934; M.D., Temple University, 1938.

GENE GRABAU  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  Assistant in Clinical Pediatrics
B.S., in Pharmacy, St. Louis College of Pharmacy, 1937; M.D., Washington University, 1942.

ARTHUR S. GREDITZER  .  .  .  .  .  .  .  .  .  .  Assistant in Neuropsychiatry
M.D., Washington University, 1948.
(1949-50)

JACK ADELL GREGORY, JR.  .  .  .  .  Assistant in Pathology
A.B., University of Kansas City, 1944; B.S. in Medicine, University of Missouri, 1945; M.D., Washington University, 1947.

KENDALL DECATUR GREGORY  .  .  .  Assistant in Clinical Medicine
M.D., Washington University, 1940.

AXEL REINHOLD GRONAU  .  .  .  .  .  .  .  .  Assistant in Clinical Medicine
M.D., University of Naples, 1935.

GERHARD ELIAS GRUENFELD  .  .  .  .  .  .  .  .  .  Assistant in Clinical Surgery
M.D., Friedrich-Wilhelmine University, 1923.

CHARLES RUSSELL GULICK  .  .  .  .  .  Assistant in Obstetrics and Gynecology
A.B., Central College, 1940; M.D., St. Louis University, 1943.

SAMUEL B. GUIZE  .  .  .  .  .  .  .  .  .  .  .  .  .  Assistant in Medicine
M.D., Washington University, 1945.
(1948-49)

ANDY HALL, JR.  .  .  .  .  .  .  .  .  .  .  .  .  Assistant in Clinical Genitourinary Surgery
M.D., Washington University, 1926.

JOE BILL HALL  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  Assistant in Medicine
M.D., Washington University, 1948.
(1949-50)

LAWRENCE KEATS HALFERN  .  .  .  .  .  Assistant in Clinical Dermatology
M.D., University of Colorado, 1937.

NORMAN MERLIN HANKIN  .  .  .  .  .  .  .  Assistant in Clinical Pediatrics
A.B., University of Wisconsin, 1940; M.D., 1943.
(1949-50)

BOYCE L. HANKS  .  .  .  .  .  .  .  .  .  .  .  .  Assistant in Surgery
A.B., University of Alabama, 1942; M.D., Harvard University, 1944.
(1948-49)

1 Resigned April 1, 1949.
2 Effective October 1, 1948.
MARY N. HARA Research Assistant in Medicine
A.B., University of California, 1939.

HELEN HARKNESS Assistant in Clinical Occupational Therapy

LEE BULLEN HARRISON Assistant in Clinical Medicine
A.B., University of Utah, 1925; M.D., Washington University, 1927.

RALPH THOMAS HABSH Assistant in Obstetrics and Gynecology
A.B., University of Missouri, 1936; B.S. in Medicine, 1938; A.M., 1938; M.D., Washington University, 1941.

PAUL TUPPER HARTMAN Assistant in Clinical Psychiatry
A.B., Washington University, 1934; M.D., 1938.

ARTHUR L. HASKINS Assistant in Obstetrics and Gynecology
B.S., University of Rochester, 1938; M.D., 1942.
(Fellow in Obstetrics and Gynecology, 1948-49)

WILLIAM DAVIS HAWKER Assistant in Clinical Obstetrics and Gynecology
B.S., Shurtleff College, 1933; M.D., Washington University, 1938.

ROBERT MELVILLE HAZEN Assistant in Otolaryngology
M.D., University of Kansas, 1947.
(1949-50)

CARL J. HEIFETZ Assistant in Clinical Surgery
B.S., Washington University, 1925; M.D., 1929.

ALBERT EARL HENSEL Assistant in Pediatrics
A.B., University of Missouri, 1941; M.D., Washington University, 1944.
(1948-49)

DAVID FLOYD HERSEY Assistant in Bacteriology and Immunology
B.S., Trinity University, 1947; M.S., University of Illinois, 1948.

HARRIET D. HERSHEY Research Assistant in Bacteriology and Immunology
B.A., Wellesley College, 1941
(1948-49)

JOHN COURTRIGHT HERRWG Assistant in Pediatrics
B.S., Drury College, 1943; M.D., Washington University, 1945.

GEORGE THOMAS HODGES Assistant in Otolaryngology
M.D., St. Louis University, 1946.
(1949-50)

HELEN LOUISE HOPFOMMER Assistant in Pediatrics
B.S. in Medical Science, Washington University, 1947; M.D., 1947.
(1949-50)

LILLI HOFSTATTER Research Assistant in Gerontology
University of Vienna.
(1949-50)

BERNARD HILBERT Assistant in Clinical Medicine
A.B., 1938; M.D., 1941, University of Wisconsin.

WILLIAM EDWARD HUNT Assistant in Surgery
B.A., Ohio State University, 1943; M.D., 1946.
(1949-50)

1 Effective December 1, 1948.
2 Effective January 1, 1949.
3 Effective April 1, 1949.
HERMAN HUTTO . . . Assistant in Clinical Obstetrics and Gynecology
A.B., University of Alabama, 1932; M.D., Washington University, 1935.

MENARD IHNEN . . . . . . . . . . . . Assistant in Pathology
M.D., University of Illinois, 1946.
(1949-50)

CHARLES C. JACOBS, JR. . . . Assistant in Otolaryngology
A.B., Washington University, 1942; M.D., 1945.
(1949-50)

EDGAR PLEASANT JAYNE . . . Research Assistant in Anatomy
A.B., University of Kentucky, 1936; M.S., 1940.
(1948-49)

MARY CHAPMAN JOHNSON . . . Research Assistant in Medicine
A.B., Washington University, 1938.

MILLARD FILLMORE JONES . . . Assistant in Otolaryngology
B.S., Wake Forest College, 1936; M.D., Temple University, 1940.
(1948-49 and January 1 to June 30, 1950)

THOMAS KEELY, JR. . . . . . . . . Assistant in Radiology
(1949-50)

FRANK GOULDING KELLER . . . Assistant in Pediatrics
B.S., Alabama Polytechnic Institute, 1934; M.D., Washington University, 1942.
(July 1 to December 31, 1948)

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

BARBARA STANDISH KENDALL . . . Assistant in Medical Psychology
A.B., Radcliffe College, 1913; Ed.M., Harvard University, 1925.

JOHN KENNEDY . . . . . . . . . . . . . Assistant in Clinical Medicine
M.D., McGill University, 1945.

DANIEL DAVID KLASS . . . . . . . . Assistant in Clinical Otolaryngology
B.S., University of Virginia, 1933; M.D., 1936.

FREDERICK WILLIAM KLINGE . . . Assistant in Surgery
A.B., University of Missouri, 1938; M.D., Washington University, 1942.
(July 1 to October 31, 1948)

NORMAN E. KNOWLTON . . . . . . . . Assistant in Medicine
B.S., Harvard University, 1942; M.D., 1945.
(1949-50)

ROBERT EUGENE KOCH . . . . . . . . Assistant in Clinical Medicine
A.B., Washington University, 1938; M.D., 1940.

KENNETH ALBERT KOERNER . . . Assistant in Clinical Pediatrics
A.B., Washington University, 1935; M.D., 1941.

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.

CLEATUS L. KRAUS . . . . . . . . . . . . Research Assistant in Gerontology
B.A., Stanford University, 1945; M.D., Boston University, 1947.

MARIANNE KUTTNER . . . . . . . . . . . . Assistant in Clinical Pediatrics
M.D., Johann Wolfgang Goethe University (Frankfurt on Main), 1931.

LORRAINE LAKE1 . . . . . . . . . . . . . . Assistant in Physical Therapy
WANDA MARIE LAMB . . . . . . . . . . . . Assistant in Neuropsychiatry
B.S. in Medicine, University of Missouri, 1946; M.D., Washington University, 1948.
(1949-50)

ROBERT DALE LANGE2 . . . . . . . . . . . . . . Assistant in Medicine
A.B., Macalester College, 1941; M.D., Washington University, 1944.

1 Effective February 1, 1949.
2 Effective October 1, 1948.
WATSON B. LARKIN . . . . . . . Assistant in Otolaryngology
M.D., University of Tennessee, 1940. (1948-49)

HARRY JAMES LAWLER . . . . . . Assistant in Clinical Pediatrics
B.S. University of Illinois, 1936; D.Sc., Johns Hopkins University, 1940; M.D., Washington University, 1943.

GORDON SPARKS LETTERMAN . . . . Assistant in Clinical Surgery
A.B., Washington University, 1937; B.S., 1940; M.D., 1941. (July 1, 1948 to February 1, 1949)

RICHARD R. LININGER . . . . . . Assistant in Neuropsychiatry
A.B., University of California, 1944; M.D., 1947. (1948-49)

THURID K. LININGER . . . . . . Research Assistant in Psychiatry
A.B., University of California, 1944; M.D., 1948. (July 1 to September 15, 1948)

ROBERT OSCAR LIPE . . . . . . . Assistant in Pathology
M.D., Duke University, 1947. (1948-49)

STUART PETER LIPPERT . . . . . Assistant in Radiology
A.B., Illinois College, 1939; M.D., Washington University, 1943. (July 1 to December 31, 1948)

JOSEPH JEROME LITTELL, JR. . . Assistant in Otolaryngology
B.S., Indiana University, 1943; M.D., 1945. (1949-50)

JAMES WILLIAM LITTLE . . . . . Assistant in Radiology
A.B., University of Michigan, 1932; M.D., 1935. (1948-49)

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. (1949-50)

WILLIAM DE LOSSE LOVE, IV . . . . Assistant in Medicine
M.D., Washington University, 1947.

H. O. LOYD . . . . . . . . . . Assistant in Medicine
A.B., University of Kansas, 1936; M.D., 1940. (October 20, 1948 to June 30, 1949)

RALPH RAYMOND LUCE1 . . . . Assistant in Pediatrics
B.S., University of Idaho, 1941; M.S., 1942; M.D., Washington University, 1946.

LAWRENCE KIDDER MACDANIELS . . . . Assistant in Medicine
A.B., Reed College, 1937; M.D., University of Oregon, 1941. (1948-49)

KURT MANSBACHER . . . . . . . Assistant in Clinical Medicine
M.D., Friedrich-Wilhelms University, 1919.

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

PAUL FRANKLIN MAX Assistant in Clinical Obstetrics and Gynecology
B.S., Washington University, 1932; M.D., 1932.

HERBERT ARTHUR MAZUR . . . . Assistant in Pediatrics
M.D., Washington University, 1943. (1948-49)

WARREN BENJAMIN MILLS . . . . Assistant in Neuropsychiatry
B.S. in Med. Sci., Washington University, 1941; M.D., 1942.

1 Effective January 1, 1949.
ESTHER LEE MIRMOW1 Research Assistant in Clinical Psychiatry
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.

MORRIS MOORE . . . . . . Mycologist to the Department of Dermatology
B.S., Boston University, 1928; A.M., Harvard University, 1929; Ph.D., Washington University, 1933.

VICTOR REUBEN MOORMAN . . . . . . Assistant in Otolaryngology
A.B., University of Kansas, 1937; M.D., 1940.

JOSEPH I. MORSELAND Assistant in Clinical Ophthalmology
M.D., Washington University, 1941.

CHARLES BARBER MUELLER . . . . . . Assistant in Surgery
A.B., University of Illinois, 1938; M.D., Washington University, 1942.

ROBERT JOHN MUELLER . . . . . . Assistant in Clinical Neuropsychiatry
M.D., Washington University, 1930; M.S., University of Michigan, 1942.

DARRELL D. MUNRO . . . . . . Assistant in Surgery
M.D., McGill University, 1944.

DAVID N. MCCLURE . . . . . . Assistant in Clinical Pediatrics
M.D., University of Tennessee, 1949.

JAMES L. McNEIL . . . . . . Assistant in Pediatrics

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 Neuropsychiatry
A.B., Washington University, 1938; B.S. in Med. Sci., 1942; M.D., 1942.

JOHN FRANCIS NEVILLE, JR.2 Assistant in Surgery
B.S., Yale University, 1944; M.D., 1946.

GEORGE NOEL . . . . . . Assistant in Ophthalmology
M.D., Jefferson Medical College, 1938.

FRANK BARNES NORBURY . . . . . . Assistant in Medicine
M.D., Washington University, 1948.

JOSEPH ANDREW NORTON . . . . . . Assistant in Radiology
M.D., University of Arkansas, 1942.

FRANCIS EDWARD O'NEILL . . . . . . Assistant in Radiology
A.B., University of Kansas, 1935; M.D., 1939.

1 Effective January 1, 1949.
2 On leave of absence for military service.
THE SCHOOL OF MEDICINE

MARVIN D. OBRAHOOD . . . . . Assistant in Pathology
A.B., West Virginia University, 1944; M.D., Harvard University, 1947.
(1948-49)

JAMES GRIFFITH OWEN . Assistant in Surgery
B.S., Monmouth College, 1940; M.D., Washington University, 1943.
(1948-49)

LESLIE ENDICOTT PATTON Assistant in Clinical Obstetrics and Gynecology
B.S., St. Louis University, 1921; M.D., 1924.

JAMES RICHARD PAUL . . . Assistant in Neuropsychiatry
A.B., University of Nebraska, 1938; M.D., 1942.
(July 1 to November 15, 1948)

JOSEPH C. PEDEN, JR. Assistant in Surgery
B.S., Harvard University, 1940; M.D., 1943.
(1948-49)

JAMES PENNOYER . Assistant in Clinical Obstetrics and Gynecology
B.S., Hobart College, 1932; M.D., University of Rochester, 1935.
(1948-49)

MIRIAM M. PENNOYER . . . . . . Assistant in Pediatrics
B.S., Carnegie Institute, 1935; M.D., University of Rochester, 1939.
(October 1, 1948 to June 30, 1949)

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.

RICHARD MORSE PETERS . . Assistant in Surgery
B.S., Yale University, 1943; M.D., 1945.

MATHER PFEIFFENBERGER, JR. Assistant in Surgery
A.B., Yale University, 1941; M.D., Harvard University, 1944.
(1948-49)

CLARENCE M. PICKARD . . . . . Assistant in Pathology
M.D., Johns Hopkins University, 1948.
(1948-49)

EDWIN F. PRICE, JR. Assistant in Neuropsychiatry
A.B., University of Kansas, 1942; M.D., 1945.

WALTER A. QUEBEDEAUX, JR. Research Assistant in Physiology
B.A., Southwestern University, 1935; B.S., 1936; M.A., University of Texas, 1939; Ph.D., 1940; B.S. in Chem. Eng., 1940.

ROBERT HENRY RAMSEY . . . Assistant in Surgery
B.S., University of Arkansas, 1943; M.D., Washington University, 1945.

MARVIN G. RAPE . . . . . Assistant in Surgery
B.A., University of Texas, 1939; M.D., 1942.

ALBERT PAUL RAUBER . . . Assistant in Pediatrics
B.S., Capital University, 1945; M.D., Washington University, 1946.
(1948-49)

HAROLD RAWSON REAMES . . . Assistant in Pediatrics
A.B., Olivet College, 1955; Ph.D., University of Chicago, 1940; M.D., 1943.
(1948-49)

WALLACE RINDSKOFF, JR. . . . Assistant in Pathology
M.D., Washington University, 1940.
(1948-49)

JAMES C. ROBERTS, JR. . . . . Assistant in Pathology
A.B., Washington University, 1945; M.D., University of Rochester, 1949.
(1949-50)

KATHLEEN ROETTO Research Assistant in Preventive Medicine
B.S., Fontbonne College, 1948.

DORIS ROLF . . . . . Research Assistant in Physiology
A.B., Harris Teachers' College, 1946.

1 Effective November 5, 1948.
ROBERT WRIGHT ROSS  Assistant in Obstetrics and Gynecology  
B.A., Hendrix College, 1938; M.D., University of Arkansas, 1942.  
(1948-49)

ELSIE SHAW ROUSH  Assistant in Anatomy  
B.S. in Education, Madison College, 1943; M.S., University of Wisconsin, 1947.

ROBERT KILLIAN ROYCE  Assistant in Surgery  
B.S., University of Mississippi, 1939; M.D., Washington University, 1942.  
(1948-49)

ROBERT CUNNINGHAM RUTLEDGE, JR.  Assistant in Pediatrics  
A.B., Rice Institute, 1942; B.S. in Medicine, Washington University, 1946;  
M.D., 1949.  (1948-49)

HENRY ZODOC SABLE  Assistant in Biological Chemistry and National  
Institute of Health Fellow in Biological Chemistry  
A.B., University of Toronto, 1939; M.D., 1943; M.S., University of Illinois,  
1947.  
(1948-49)

LEO A. SACHAR  Assistant in Clinical Surgery  
A.B., Washington University, 1936; M.D., 1940.  
(1948-49)

SAMUEL ELY SCHECHTER  Assistant in Clinical Medicine  
M.D., Washington University, 1941

MARSHALL DAVID SCHECHTER  Assistant in Neuropsychiatry  
B.S., University of Wisconsin, 1942; M.D., University of Cincinnati, 1944.  
(1948-49)

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  
A.B., Miami University, 1940; M.S., Washington University, 1942; M.D., 1949.  
(1949-50)

BERNARD SCHWARTZMAN  Assistant in Clinical Pediatrics  
A.B., Washington University, 1931; M.D., 1935.

HENRY SCHWARZ II  Assistant in Surgery  
B.S. in Med. Sci., Washington University, 1941; M.D., 1941.

ROBERT McKAY SCOTT  Assistant in Pediatrics  
A.B., Washington University, 1941; M.D., 1944.  
(October 1 to December 31, 1948)

JAMES HARRY SCRUGGS, JR.  Assistant in Ophthalmology  
B.A., University of Texas, 1943; M.D., 1945.

CHARLES LEON SHAFER  Assistant in Medicine  
A.B., University of Missouri, 1941; B.S. in Med., 1944; M.D., Harvard University, 1946.

BURTON ALBERT SHATZ  Assistant in Medicine  
A.B., Washington University, 1940; M.D., 1943.  
(1948-49)

ALFRED I. SHERMAN  Assistant in Obstetrics and Gynecology  
M.D., University of Toronto, 1944.  
(Fellow in Medicine, 1948-49)

BARBARA SANDERSON SHIER  Assistant in Clinical Neuropsychiatry  
A.B., Oklahoma College for Women, 1937; M.D., Washington University, 1944.  
(1948-49)

1 On leave of absence, effective January 1, 1949.
2 Effective October 1, 1948.
3 In residence at Los Alamos.
HARRISON H. SHOULDERS, JR. . Assistant in Surgery
A.B., Vanderbilt University, 1943; M.D., 1946.
(1949-50)

WAYNE ALVIN SIMRIL . Assistant in Radiology
A.B., Culver-Stockton College, 1941; M.D., Washington University, 1944.

JOHN SPALDING SKINNER . Assistant in Clinical Medicine
M.D., Washington University, 1940.

JUSTIN SLEIGHT . Assistant in Ophthalmology
A.B., Northwestern University, 1943; M.D., 1945.
(June 1, 1949 to June 30, 1950)

MILTON WILBUR SLEIN . Research Assistant in Biological Chemistry
A.B., Washington University, 1940; M.S., 1943.
(1948-49)

CATHERINE A. SMITH . Research Assistant in Otolaryngology
A.B., Washington University, 1935; M.S., 1948.

WILLIAM SNODELEY . Assistant in Pathology
M.D., University of Oklahoma, 1944.
(1949-50)

JOHN K. SPITZNADEL . Assistant in Medicine
A.B., Columbia University, 1943; M.D., 1946.
(1949-50)

WALLACE RAYMOND STACEY . Assistant in Obstetrics and Gynecology
B.S., Southwest Missouri State Teachers College, 1938; B.S. in Medicine, University of Missouri, 1943; M.D., Washington University, 1945.
(1949-50)

A. JACKSON STACY, JR. . Assistant in Radiology
B.A., University of Mississippi, 1941; M.D., Washington University, 1947.
(1949-50)

HUGH EDWARD STEPHENSON, JR. . Assistant in Surgery
B.S. in Medicine, University of Missouri, 1943; M.D., Washington University, 1946.
(1949-50)

FRANCES H. STEWART . Assistant in Clinical Obstetrics and Gynecology
M.D., Washington University, 1927.

ARTHUR STICKLE, JR. . Assistant in Ophthalmology
M.D., University of Oklahoma, 1943.

GEORGE T. STINE . Assistant in Ophthalmology
B.A., Ohio State University, 1936; M.D., 1939.
(July 1 to November 30, 1948)

STERLING SUDDARTH . Assistant in Pediatrics
(1949-50)

JAMES FREDRICK TAGGE . Assistant in Medicine
A.B., University of Oklahoma, 1941; M.D., Washington University, 1943.
(1948-49)

DAVID WILSON TALMAGE . Assistant in Medicine
B.S., Davidson College, 1941; M.D., Washington University, 1944.
(1949-50)

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

RICHARD LOUIS THOMAS . Assistant in Ophthalmology
A.B., University of Nebraska, 1939; B.S. in Medicine, 1943; M.D., 1943.
(January 1, 1949 to February 28, 1950)

ALFRED AMOS THRLOW, JR. . Assistant in Surgery
A.B., Pomona College, 1939; M.D., Washington University, 1943.
(July 1, 1948 to January 31, 1949)

CLIFFORD TILLMAN . Assistant in Medicine
B.A., Vanderbilt University, 1941; M.D., 1944.
(1949-50)

* Effective October 1, 1949.
VICTOR E. TINDERHOLT . . . . Research Assistant in Pathology
A.B., Luther College, 1944; M.S., Washington University, 1947.

STANLEY TRUHLSEN . . . . Assistant in Ophthalmology
A.B., University of Nebraska, 1941; M.D., 1944.
(December 1, 1948 to June 30, 1950)

STANLEY TURKEL . . . . Assistant in Neuropsychiatry
B.S. in Medicine, University of Nebraska, 1944; M.D., 1944.
(July 1 to December 31, 1948.

DANIEL C. TWEEDALL . . . . Assistant in Clinical Dermatology

PEARL CAROLYN ULETT . . . . Research Assistant in Psychiatry
B.S., University of Washington, 1941; M.D., University of Oregon, 1945.

ELLIS JACKSON VAN SLYCK . . . . Assistant in Pathology
B.S., Yale University, 1945; M.D., 1947.
(1948-49)

DOMINIC JOSEPH VERDA . . . . Assistant in Clinical Surgery
A.B., University of Illinois, 1924; M.A., 1920; M.D., Johns Hopkins University, 1925.

CROFFORD OLIVER VERMILLION . Assistant in Hospital Administration
A.B., DePauw University, 1939; M.D., Washington University, 1942.

WILLIAM B. WALL, JR. . . . . Assistant in Surgery
B.S., University of Georgia, 1942; M.D., 1946.
(1949-50)

BAILEY WEBB . . . . Assistant in Pediatrics
M.D., Duke University, 1946.
(1948-49)

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 LOEVENGER WEISSMAN Research Assistant in Medical Psychology
A.B., University of Minnesota, 1937; M.S., 1938; Ph.D., University of California, 1944.

JOSEPH WARREN WEST . . . . Assistant in Otolaryngology
M.D., Duke University, 1944.
(1949-50)

RICHARD ALLEN WESTSMITH . Assistant in Clinical Ophthalmology
A.B., Stanford University, 1931; M.D., University of Southern California, 1936.
(July 1 to August 31, 1946)

HERBERT CHARLES WIEGAND . . . . Assistant in Medicine
A.B., Washington University, 1940; M.D., 1943.

GERALD LINCOLN WINOKUR . . . . Assistant in Surgery
A.B., Vanderbilt University, 1940; M.D., 1943.
(Fellow in Neurosurgery, 1948-49)

FRANK SUM WISSMATH . . . . Assistant in Clinical Pediatrics
A.B., Washington University, 1939; M.D., 1943.
(1949-50)

MARTIN SANFORD WITHERS . . . . Assistant in Pediatrics
A.B., University of Kansas, 1938; M.D., Washington University, 1942.
(1948-49)

WILFRED E. WOODRIDGE . . . . Research Assistant in Dermatology
B.S., Drake College, 1939; M.D., Washington University, 1943.
(1948-49)

CARL T. WOOLEY . . . . Assistant in Obstetrics and Gynecology
A.B., University of Utah, 1940; M.D., Washington University, 1943.

3 Resigned March 31, 1949.
4 In residence at Los Alamos.
THE SCHOOL OF MEDICINE

DORIS SURLES WOOLSEY . . . . . . . Assistant in Otolaryngology
B.S., Duke University, 1938; M.D., 1939.
(1948-49)

RICHARD WILLIAM YORE . . . . . . . Assistant in Surgery
A.B., Washington University, 1939; M.D., 1943.
(Fellow in Surgery, 1948-49)

CLAUDE CURTIS YOUNG, JR. . . . . Assistant in Obstetrics and Gynecology
A.B., Evansville College, 1938; M.D., University of Louisville, 1941.
(1948-49)

GARLAND GUS ZEDLER . . . . . . . Assistant in Radiology
B.A., University of Texas, 1934; M.D., 1938.
(July 1, 1948 to January 31, 1949)

LECTURERS

WILLIAM ANDERSON . . . . . . . Lecturer in Hospital Administration

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

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

WILLIAM W. CROWDUS . . . . . . . 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.

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

MARY L. HEMMY . . . . . . . Lecturer in Medical Social Work
B.S., University of Minnesota, 1936; M.A., 1941.

FLORENCE ELLEN KING . . . . . . . Lecturer in Hospital Administration

JESSE B. LASATER . . . . . . . Lecturer in Vital Statistics
(1949-50)

THURID LININGER . . . . . . . Lecturer in Public Health
A.B., University of California, 1944; M.D., 1948.
(December 1, 1948 to June 30, 1949)

CURTIS H. LOHR . . . . . . . Lecturer in Hospital Administration
E.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, 1936.

HARRY J. MOHLER . . . . . . . Lecturer in Hospital Administration

LOUIS WILLIAM PICKLES . . . . . . . Lecturer in Public Health
B.S.C.E., Missouri School of Mines, 1930; M.P.H., University of Michigan.
(October 1 to December 15, 1948)

PAUL I. ROBINSON . . . . . . . Lecturer in Hospital Administration
B.S., Washington University, 1926; M.D., 1928.
(1948-49)

SOL RICHARD SILVERMAN . . . . . . . Lecturer in Audiometry
A.B., Cornell University, 1933; M.S., Washington University, 1938; PhD., 1942.

MARION SIELOVE . . . . . . . Lecturer in Dietetics
B.S., Iowa State College, 1942; M.S., Michigan State College, 1947.

GRAHAM F. STEPHENS . . . . . . . Lecturer in Hospital Administration and
Associate Director of the Department of Hospital Administration
B.A., University of Manitoba, 1928; M.B.A., University of Chicago, 1935.
(October 1 to August 31, 1948)

RAYMOND C. SUNDERMAN . . . . . . . Lecturer in Industrial Health
M.D., Washington University, 1932.
(1948-49)
ELMER P. WHEELER . . . . . . Lecturer in Industrial Hygiene  
B.S. in Chemistry, University of New Hampshire, 1936.  
(1949-50)

WILLIAM C. WHITE  
Lecturer in Hospital Administration  
(1948-49)

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

FELLOWS

SETH BARNES . . . . . . Fellow in Dermatology  
M.D., University of Tennessee, 1935.

TADEUS BARONOWSKI  
Research Fellow in Biological Chemistry  
M.D., University of Wilno (Poland), 1936.  
(July 1 to September 30, 1948)

JACK BARROW . . . . . . Clinical Fellow in General Medicine  
M.D., Washington University, 1946.  
(1949-50)

HARVEY ROLLAND BERNARD . . . . . . Fellow in General Surgery  
M.D., Washington University, 1947.  
(1949-50)

JOHN W. BERRY . . . . . . Clinical Fellow in General Medicine  
B.S., University of Toledo, 1943; M.D., St. Louis University, 1946.  
(1949-50)

F. BERTOLI Fellow in Pathology (United States Public Health Service)  
M.D., University of Parma (Italy), 1943.  
(1948-49)

EDWARD J. BISHOP . . . . . . Fellow in General Surgery  
M.D., University of Cincinnati, 1947.  
(1949-50)

BOYD KEOUGH BLACK . Fellow in Pathology (United States Navy)  
B.S., University of Vermont, 1939; M.D., 1943.

HARRISON BLACK . . . . . . Fellow in Thoracic Surgery  
A.B., Princeton University, 1940; M.D., Harvard University, 1943.

BRYCE HAROLD BONDURANT Fellow in Obstetrics and Gynecology  
(July 1 to December 31, 1948)

MCDONALD BONEBRAKE Fellow in Obstetrics and Gynecology  
B.S., Drury College, 1943; M.D., Washington University, 1946.  
(1948-50)

LEWIS H. BOSHER, JR. Fellow in Thoracic Surgery  
B.S., University of Virginia, 1935; M.D., Harvard University, 1940.

DAVID H. BROWN  Merck Post Doctoral Fellow in Biological Chemistry  
B.S., California Institute of Technology, 1942; Ph.D., 1945.  
(October 1, 1948 to July 30, 1949)

PERIHAN CAMBEL Fellow in Cancer Research  
B.A., American College for Girls (Istanbul), 1938; M.D., Istanbul University, 1954.  
(1948-49)

M. RICHARD CARLIN Fellow in General Surgery  
B.A., Dartmouth College, 1945; M.D., Yale University, 1947.  
(1949-50)

WEN-YING CHAO Fellow in Thoracic Surgery  
M.D., Mukden Medical College (China), 1941.  
(July 1 to December 31, 1948)

WILLIAM CHAMBERS Fellow in Obstetrics and Gynecology  
B.S., University of Illinois, 1940; M.D., 1942.

1 In residence at Los Alamos.
THE SCHOOL OF MEDICINE

JAMES THOMAS CHAMNESS . . . . Fellow in Plastic Surgery
M.D., University of Pennsylvania, 1944. (Assistant in Surgery, 1948-49)

CARL CHISM . . . . . . . . Fellow in Plastic Surgery
B.S., University of Nebraska, 1936; M.D., 1941.

WILLIAM F. COLLINS, JR. . . . Fellow in General Surgery
B.S., Yale University, 1945; M.D., 1947. (1949-50)

WILLIAM DAUGHADAY . . . . Research Fellow in Metabolism
A.B., Harvard University, 1940; M.D., 1943. (1948-49)

SAMUEL S. DAUN . . . . Visiting Fellow in Surgery
B.S., St. Johns University, Shanghai, 1939; M.D., 1942
(July 1 to November 10, 1948)

BANYEN DAVIBHADHANA . . . Fellow in Anatomy
M.B., Chulalongkorn University (Siam), 1929.
(January 1 to June 30, 1949)

ALFRED MILLS DECKER, JR. . Exchange Fellow in Surgery with the
University of Toronto
A.B., University of Rochester, 1940; M.D., 1943. (Assistant in Surgery, 1948-49)

FLURRY MCCARTHY DEMERE . Fellow in Plastic Surgery
B.S., Southwestern College, 1939; M.D., University of Tennessee, 1942.
(1948-49)

CHARLES BERNARD DUNAIF . . Research Fellow in Anatomy
A.B., Syracuse University, 1947.

JOHANN L. EHRENHAFT . . . Fellow in Thoracic Surgery
M.D., State University of Iowa, 1938.
(September 1, 1948 to May 1, 1949)

ALBERT EISENSTEIN . . . . Clinical Fellow in General Medicine
A.B., University of Rochester, 1941; M.D., Washington University, 1944.
(Assistant in Medicine, July 1 to August 31, 1948)

JAMES O. ELAM . . . . Fellow in Anesthesiology
A.B., University of Texas, 1942; M.D., Johns Hopkins University, 1945.
(Instructor in Anesthesiology, July 1 to December 31, 1948)

GLADDEN V. ELLIOTT . . . . Fellow in Gastroenterology
A.B., Central College, 1943; M.D., Washington University, 1946.
(Assistant in Medicine, 1948-49)

CESAR FERNANDEZ . . . . Kellogg Foundation Fellow in Otolaryngology
M.D., University of Chile, 1936.
(March 1, 1949 to April 30, 1950)

WILLIAM S. FIELDS . . . . Fellow in Neuropsychiatry
A.B., Harvard University, 1934; M.D., 1938.
(1948-49)

SAM FRANKEL . . . . Fellow in Cancer Research
B.S., Southern Illinois University, 1946.
(1948-49)

MOISES GRINSTEIN . . . . Research Fellow in Hematology
Ph.D., University of Buenos Aires, 1934.
(July 1 to August 31, 1948)

ARTHUR L. GROPPER . . . . Fellow in Hypertension
(United States Public Health Service)
M.D., University of Rochester, 1946.
(1949-50)

RAYMOND F. HAIN . . . . Fellow in Pathology
(National Cancer Institute)
M.D., Jefferson Medical College, 1947.
(1949-50)
ALEX HAREL. . . . . . . . . . . . Fellow in Orthopedic Surgery
M.D., Washington University, 1942.
(December 1, 1948 to November 30, 1949)

THOMAS R. HINCHLEY . . . . . . Fellow in Neurosurgery
A.B., Boston College, 1942; M.D., Tufts.
(Assistant in Surgery, 1948-49)

LEOPOLD HOFFSTATTER . . . . . . Research Fellow in Neuropsychiatry
M.D., University of Vienna, 1926.

EARL P. HOLT, JR. . . . . . . . . . Fellow in Orthopedic Surgery
A.B., Duke University, 1942; M.D., 1945.
(Assistant in Surgery, 1948-49)

ANNE FULCHER HUNTER . . . . . . Fellow in Pediatric Psychiatry
B.A., University of Wisconsin, 1937; M.D., Johns Hopkins University, 1941.
(October 1, 1948 to June 30, 1949)

ELIZABETH M. INNES . . . . . . . . Research Fellow in Medicine
M.B.C.P., Edinburgh University, 1945.
(July 1 to September 30, 1948)

JAMES INNES . . . . . . . . . . . . Research Fellow in Medicine
M.D., Edinburgh University, 1946.
(July 1 to September 30, 1948)

HOWARD R. JACKSON1 . . . . . Fellow in Anatomy
M.A., Vanderbilt University, 1948.

HAL B. JENNINGS . . . . . . . . . Fellow in Plastic Surgery
M.D., University of Michigan, 1941.
(1949-50)

DONALD COOPER JOHNSTON . . . Fellow in Orthopedic Surgery
M.D., University of Alberta, 1944.
(1948-49)

R. LEONARD KEMLER . . . . . Assistant in Surgery
A.B., Yale University, 1939; M.D., 1943.
(1948-49)

ROBERT B. KING2 . . . . . . . Fellow in Neurological Surgery
M.D., University of Rochester, 1946.

SVEN A. KVORNING . . . . . Research Fellow in Gerontology
M.D., University of Copenhagen.
(July 1, 1948 to January 31, 1949)

ROBERT L. LAM . . . . . . . . . Fellow in Neurology
A.B., University of Michigan, 1941; M.D., 1944.
(1949-50)

JOSEPH VICTOR LAND . Fellow in Dermatology (United States Navy)
M.D., University of Arkansas, 1938.

K. T. LEE . . . . . . . . . . . Fellow in Medicine
M.D., Severance University Medical School, Seoul, Korea, 1942.
(1948-49)

RICHARD A. LEMMER . . . . . Fellow in General Surgery
A.B., Kalamazoo College, 1941; M.D., Johns Hopkins University, 1944.
(July 1, 1948 to April 30, 1949)

C. T. LI . . . . . . . . . . . Fellow in Anatomy
B.S., Yenching University, 1936; M.S., 1946.
(1945-46)

BERNARD S. LIPMAN . . . . . Fellow in Clinical Cardiology
A.B., Washington University, 1941; M.D., 1944.
(1949-50)

LOUIS T. LITGOW . . . . . . . Fellow in Surgical Pathology
M.D., Marquette University, 1942.
(July 1 to December 31, 1949)

1 Deceased November 1, 1948.
2 On leave of absence, 1949-50.
VIRGIL LOEB, JR. Fellow in Clinical Hematology
M.D., Washington University, 1944.
(1949-50)

JOHN PHILIP LOGE Research Fellow in Medicine
A.B., University of Redlands, 1939; M.D., Yale University, 1943.

JAMES O. LOTTES Fellow in Orthopedic Surgery
B.S. in Medicine, University of Missouri, 1933; M.D., University of Louisville, 1937.

CHUNG-KUEI MA Fellow in Cancer Research
Peiping Union Medical College.
(1948-49)

SIU-CHOUN MA Fellow in Cancer Research
M.S., Washington University, 1948.
(1948-49)

DOROTHY T. MAGALLON Fellow in Obstetrics and Gynecology
M.D., Washington University, 1946.

LIONEL A. MANSON National Institute of Health Fellow in Biological Chemistry
B.A., University of Toronto, 1945.
(July 1, 1948 to April 30, 1949)

FRANK F. MARTIN Clinical Fellow in General Medicine
B.A., State University of Iowa, 1940; M.D., Cornell University, 1943.
(1949-50)

DONALD MELTZER Fellow in Psychiatry
M.D., New York University, 1946.
(Assistant in Neuropsychiatry, 1948-49)

WILLIAM BROWNSON MIZE Fellow in Obstetrics and Gynecology
A.B., Washington and Lee University, 1941; M.D., Washington University, 1944.
(July 1 to November 1, 1948)

THOMAS W. MOFFATT Fellow in Dermatology
M.D., State University of Iowa, 1940.

FERDINANDO MORIN Rockefeller Foundation Fellow in Neurology
M.D., University of Padova (Italy), 1937.
(January 23 to October 22, 1949)

CHARLES BARRER MUELLER Fellow in Surgery (Markle Scholar)
A.B., University of Illinois, 1938; M.D., Washington University, 1942.
(1949-50)

ELI M. NADEL Fellow in Pathology (United States Public Health Service)
B.S., College of the City of New York, 1937; M.S., 1939; M.D., Long Island College of Medicine, 1945.

JOHN A. NUETZEL Research Fellow in Hypertension
M.D., Washington University, 1947.
(1948-49)

DONALD L. ODPYKE Research Fellow in Anatomy
M.A., University of Colorado, 1940.
(1949-50)

THOMAS G. OTTO Fellow in Orthopedic Surgery
M.D., University of Alberta, 1943.
(1949-50)

CHARLES R. PARK National Institute of Health Fellow in Biological Chemistry
A.B., Harvard University, 1937; M.D., Johns Hopkins University, 1941.
(July 1, 1948 to September 30, 1949)

HERBERT E. PEDERSEN National Research Council Fellow in Orthopedic Surgery
M.D., University of Michigan, 1941.

1 Effective September 1, 1948.
MANUEL D. PENAS . . . . . Fellow in Pathology
M.D., University of Santo Tomas (Philippines), 1935.
(1948-49)

HELEN K. PORTER . . Traveling Fellow of the British Agricultural Research Council in Biological Chemistry
Ph.D., University of London, 1932.
(July 1 to September 30, 1948)

THEODORE Z. POSTERNAK . . Research Fellow in Biological Chemistry (Rockefeller Foundation)
(July 1, 1948 to August 31, 1949)

E. PRAETORIUS . . . . . Fellow in Gerontology
M.D., University of Copenhagen, 1937.
(1949-50)

SEYMOUR REICHLIN . . Fellow in Clinical Metabolism
A.B., Antioch College, 1945; M.D., Washington University, 1948.
(1949-50)

JESSE F. RICHARDSON . Fellow in Urology
M.D., University of Virginia, 1937.

J. S. RIESCO . . . . . Fellow in Otolaryngology
M.D., University of Chile, 1933.
(July 1, 1948 to February 28, 1949)

ELI ROBINS United States Public Health Service Fellow in Psychiatry and in Pharmacology
B.A., Rice Institute, 1940; M.D., Harvard University, 1943.
(1949-50)

DONALD W. ROBINSON Fellow in Obstetrics and Gynecology
M.D., Washington University, 1939.
(1949-50)

CHARLES AUGUSTUS ROSS . Fellow in Surgery
M.D., Columbia University, 1946.

SHIRLEY J. SCHAFFER Fellow in Psychiatry
B.A., University of Wisconsin, 1943; M.D., Washington University, 1947.

JAMES LOUIS SCHRICKER, JR. Fellow in Neurosurgery
A.B., University of Utah, 1939; M.D., Washington University, 1948.
(1949-50)

JOHN BLASDEL SHAPLEIGH, II Fellow in Clinical Hematology
M.D., Washington University, 1946.
(1949-50)

RALPH O. SMITH Research Fellow in Medicine (Markle Scholar)
B.S., University of Chicago, 1940; M.D., 1943.

PHILIP H. STARR Fellow in Child Psychiatry
M.D., University of Toronto, 1944.

FRANK G. STEPHENS Fellow in Pathology (United States Army)
M.D., University of Oklahoma, 1934.

ROBERT W. STEVENS Fellow in Obstetrics and Gynecology
M.D., St. Louis University, 1936.

DONALD STEWART Fellow in Chest Diseases
M.D., Washington University, 1947.
(1949-50)

ARTHUR W. STICKLE, JR. Fellow in Ophthalmology
M.D., University of Oklahoma, 1943.
(September 1, 1948 to August 31, 1949)

JACK L. STROMINGER Fellow in Pharmacology
American College of Physicians Research Fellow in Pharmacology
(1949-50)

1 Effective October 1, 1948.
2 Effective September 1, 1949.
3 On leave of absence.
4 Effective January 1, 1949.
ALFRED SUDHOLT, JR.  .  .  .  .  .  Fellow in Obstetrics and Gynecology
A.B., University of Missouri, 1940; B.S. in Medicine, 1942; M.D., Washington University, 1945.

HUNG CHUAN SUN  .  .  .  .  .  .  .  Fellow in Otolaryngology
M.D., Chefoo University (China), 1938.
(September 1, 1948 to August 31, 1949)

JOSEPH ALBERT SYSLO  .  .  .  .  .  Fellow in Urology
B.S., Loyola University, 1932; M.D., 1933.
(July 1 to September 30, 1948)

FREDERICK HARVEY TAYLOR  .  .  .  .  Fellow in Thoracic Surgery
M.D., Duke University, 1945.
(1949-50)

WILLIAM L. TOMLINSON, JR.  .  .  .  .  Fellow in Plastic Surgery
A.B., Southeast Missouri State College, 1935; M.D., Washington University, 1940.
(1948-49)

ALVA C. TRUEBLOOD, JR.  .  .  .  .  .  Fellow in Obstetrics and Gynecology
A.B., Washington University, 1940; M.D., 1943.
(1948-49)

SPENCER ALLEN TRUEK1  .  .  .  .  .  Fellow in Obstetrics and Gynecology
A.B., Union University, 1937; M.D., Vanderbilt University, 1942.

SAMUEL A. TRUFANT, III  .  .  .  .  United States Public Health Service
M.D., Tulane University, 1943.
Fellow in Neurology

GEORGE ANDREW ULETT  .  .  .  .  .  .  Fellow in Psychiatry
Ph.D., University of Oregon, 1944; M.D., 1944.
(Asistant in Neuropsychiatry, July 1, 1948 to April 30, 1949)

WINSTON H. VAUGHAN, JR.  .  .  .  .  Fellow in Orthopedic Surgery
M.D., Vanderbilt University, 1936.
(July 1 to October 1, 1948)

ANTONIO VILLASANA  .  .  .  .  .  .  Fellow in Pathology
M.D., University of Mexico, 1945.
(July 1, 1948 to January 31, 1949)

EVA G. WALAAS  .  .  .  .  .  .  .  .  .  Fellow of the University of Oslo in Biological Chemistry
M.D., University of Oslo (Norway), 1940.
(April 1, 1949 to March 31, 1950)

OTTO WALAAS  .  .  .  .  .  .  .  .  Fellow of the Royal Norwegian Ministry of Education in Biological Chemistry
M.D., University of Oslo (Norway), 1940.
(April 1, 1949 to March 31, 1950)

HUGH R. WATERS  .  .  .  .  .  .  Clinical Fellow in General Medicine
B.S., Northwestern University, 1942; M.D., 1945.
(1949-50)

JAMES WEAVER2  .  .  .  .  .  .  Fellow in Cancer Research (United States Public Health Service)
B.S., Northwestern University, 1945; M.D., 1948.

SETH E. WISSNER  .  .  .  .  .  .  Fellow in Obstetrics and Gynecology
A.B., Washington University, 1942; M.D., 1945.
(1948-49)

FRANK GLOVER WITHERSPOON  .  .  .  .  .  Fellow in Dermatology
B.A., Vanderbilt University, 1940; M.D., University of Tennessee, 1944.

JU-KANG WOO  .  .  .  .  .  .  .  .  .  Fellow in Anatomy
M.S., Washington University, 1948.
(1948-49)

BART FRANKLIN WOOLDRIDGE  .  .  .  .  Fellow in General Surgery
B.S., Texas Christian University, 1942; M.D., Vanderbilt University, 1947.
(1949-50)

GUNG-LIANG WU  .  .  .  .  .  .  .  .  Visiting Fellow in Chest Surgery
Peiping National Medical College.
(July 1 to November 10, 1948)

1 Effective January 1, 1949.
2 Effective October 1, 1948.
OFFICERS AND COMMITTEES OF THE FACULTY OF THE SCHOOL OF MEDICINE

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

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PROMOTIONS

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

OSCAR JOHNSON INSTITUTE


1 The Dean is ex officio a member of all standing committees.
OTHER OFFICERS OF THE SCHOOL OF MEDICINE

LEO WADE, M.D. . . Physician-in-Charge of Student Health Service (1948-49)

ALBERT I. MENDELOFF, M.D., M.P.H. . Physician in Charge of Student Health Service at the Medical Center (1949-50)

MARION A. MURPHY, B.A., B.S. . . Librarian (School of Medicine)

HELEN KAISER . . . . Administrative Assistant to the Dean

LOUISE JACOBY, A.B. . . . Administrative Secretary to the Dean

BETTYE JO CASE, B.J. . . . Administrative Secretary to the Dean
STAFF OF AFFILIATED HOSPITALS

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Maternity Hospital, and McMillan Hospital

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Howard Lehwald, B.Ed.
Crofford Vermillion, M.D.
E. H. Perry, M.D.
Mildred Bradbury, R.N.
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Executive Assistant—Barnes
Executive Assistant—Barnes
Executive Assistant—Barnes
Executive Assistant—Barnes
Executive Assistant—McMillan
Executive Assistant—Barnes

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Robert Shank

Physician-in-Chief
Associate Physician
Associate Physician
Associate Physician

Medicine
Assistant Physicians

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WARREN P. ELMER
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ARTHUR E. STRAUSS
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OLIVER ABEL, JR.
HARRY W. WIESE
WILLIAM B. KOUNTZ
C. MALONE STRoud
CHARLES DUDEN
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LOUIS F. AITKEN
JOSEPH BREDECK
KARL KOENIG
LEE B. HARRISON
MILTON SMITH
CECIL M. CHARLES
LEON BROMBERG
EDWARD CANNADY
BARRETT CANNADY
LEO GOTTLEY
DAVID SKILLING
B. Y. GLASSBERG
KEITH WILSON
PAUL HAGEMANN
HARRY AGRESS
TRUMAN DRAKE
CARL HARFORD
BRUCE KENAMORE
BEN H. CHARLES

SIM BEAM
JOHN SEDDON
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JOSEPH C. EDWARDS
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RICHARD MAXWELL
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ESBEN KIRK
ALFRED FLEISHMAN
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JOSEPH NOAH
I. J. FLANCE
JULIUS ELSON
FRANZ U. STEINBERG
GRACE BERGNER

SAMUEL BUKANTZ
Voluntary Assistants (Fellows)

ROBERT J. GLASER
RALPH SMITH
MELVIN L. GOLDMAN
T. K. LEE
FRANK WITHERSPOON
H. O. LOYD
HERBERT C. WIEGAND
HERBERT FRITZ
SAMUEL GUZE
LAWRENCE MACDANIELS
J. PHILIP LOGE
ALBERT EISENSTEIN
BURTON A. SCHATZ
JAMES F. TAGGE
BERNARD BERCU
JAMES T. GOOD
WILLIAM DAUGHADAY
JOHN SKINNER

JOHN KENNEDY
SAMUEL SCHECHTER
VERNE F. GOERGER
ROBERT PAINE
ROBERT LANGE
JACK BARROW
HUGH WATERS
FRANK F. MARTIN
J. W. BERRY
BERNARD S. LIPMAN
DONALD STEWART
GLADDEN V. ELLIOTT
VIRGIL LOEB, JR.
JOHN SHAPLEIGH
ARTHUR L. GROPPER
SEYMOUR REICHLIN
CHARLES R. PARK
EDWARD F. EDINGER

Robert P. McInerney

House Staff—1948-49

Resident on Ward Service

ERNEST T. ROUSE

Assistant Residents on Ward Service

AMOZ I. CHERNOFF
WILLIAM A. CLAY
WILLIAM M. DAILY

CHARLTON DE SAUSSURE
A. LEWIS FARR
WILLIAM D. PERRY

Interns on Ward Service

HELEN E. CLARK
BERNARD GARFINKEL
FRANK B. LONG
DANIEL MORGAN
JAMES F. NICKEL

FEVZI RENDA
JACK STROMINGER
DAVID TALMAGE
LEWIS R. WHATLEY

Resident on Private Service

DAVID S. CITRON

Assistant Residents on Private Service

CARL L. COOK
GLADDEN V. ELLIOTT
R. TODD FORSYTH

RALPH GIESELMAN
WILLIAM D. LOVE, IV

Interns on Private Service

MURRAY S. JAFFE
HENRY E. MENDELL
JAMES H. SWEIGER
WILLIAM W. TEVIS

CLAY F. BARRITT
WILLIAM D. GAUNT
JOE BILL HALL
ALLEN H. HOLT
THE SCHOOL OF MEDICINE

House Staff—1949-50

Resident on Ward Service
CHARLTON DE SAUSSURE

Assistant Residents on Ward Service

WILLIAM D. PERRY
WILLIAM D. LOVE, IV
JOHN K. SPITZNAGEL

CLIFFORD TILLMAN
HELEN E. CLARK
NORMAN P. KNOWLTON, JR.

Interns on Ward Service

LEONARD BERT
BRADLEY BIGELOW
DAVID M. LIEBERMAN
WILLIAM P. MCCANN
SAMUEL O. POOLE

FEVZI RENDA
STANLEY N. ROKAW
ROSS B. SOMMER
THOMAS J. WALSH, JR.

Resident on Private Service
CARL L. COOK, JR.

Assistant Residents on Private Service

RALPH V. GIESELMAN
BRUCE T. FORSYTH
JOE BILL HALL

DAVID W. TALMAGE
FRANK B. NORBURY

Interns on Private Service

NANETTE DICE
RALPH H. FORRESTER
MARY JANE GRAY
ALBERT LIEBMANN

ERVIN LIPSCHITZ
MARVIN ROSECAN
CHARLES M. ROSS
RICHARD B. TOBIN

Surgery

EVARTS A. GRAHAM . Surgeon-in-Chief
J. ALBERT KEY . Associate Surgeon
DALTON K. ROSE . Associate Surgeon
HENRY G. SCHWARTZ . Associate Surgeon
J. BARRETT BROWN . Associate Surgeon
ERNEST SACHS . Associate Surgeon
VILRAY P. BLAIR . Associate Surgeon

Assistant Surgeons

ARTHUR O. FISHER
GLOVER H. CIPHER
J. HOY SANFORD
ROGERS DEAKIN
DUFF T. ALLEN
FREDERICK A. JOSTES
THEODORE P. BROOKES
ROBERT ELMAN

HENRY S. BROOKES
CLARENCE H. CREGO
FRANKLIN E. WALTON
PETER HEINBECKER
LEONARD T. FURLOW
JOHN PATTON
ROBERT W. BARTLETT
LOUIS T. BYARS
BULLETIN OF WASHINGTON UNIVERSITY

H. R. McCarrill
Eugene Bricker
Maurice B. Roche
O. P. Hampton
H. L. Thieme
Stanley Leydig
Justin Cordonnier
Frank McDowell
J. G. Probststein
Carl Wattenberg

Heinz Haffner
Carl Lischer
Charles Eckert
Leon Fox
Thomas Burford
Cyril J. Costello
Fred Reynolds
George Roulliac
Richard T. Odell
Minot P. Fryer

Voluntary Assistant G. U. Surgeons

Carl J. Althaus
Harry Cutler
Harold Feller
Jules H. Kopp

K. O. Wilson
William H. West
J. Byron Beare
Jesse F. Richardson

Voluntary Assistant Orthopedic Surgeons

Lee T. Ford

Ernest Holscher

Voluntary Assistants (Fellows)

Robert B. King .................. Neurophysiology (1948-49)
Mathier Pfeifferberger .......... General Surgery (1948-49)
Harrison Black ................... General Surgery (1948-50)
R. Leonard Kemler ............... Thoracic Surgery (1948-49)
Lewis H. Bosher .................. Thoracic Surgery (1948-50)
D. Cooper Johnston .............. Orthopedic Surgery (1948-49)
Herbert E. Pederson ............. Orthopedic Surgery (1948-50)
Gerald Winokur .................. Neurosurgery (1948-49)
J. W. Batch ...................... Orthopedic Surgery (1948-49)
James O. Lottes ................. Orthopedic Surgery (1948-50)
Harvey R. Bernard ............... General Surgery (1949-50)
Edwin J. Bishop ................. General Surgery (1949-50)
M. Richard Carlin ............... General Surgery (1949-50)
William F. Collins .............. General Surgery (1949-50)
Fleming B. Harper .............. General Surgery (1949-50)
Bart F. Wooldridge .............. General Surgery (1949-50)
C. Barber Mueller ............... General Surgery (1949-50)
James T. Chamness .............. Plastic Surgery (1949-50)
Hall B. Jennings ................. Plastic Surgery (1949-50)
Carl Eugene Chism ............... Plastic Surgery (1949-50)
Thomas R. Hinchey .............. Neurological Surgery (1949-50)
James Schricker, Jr. ............ Neurological Surgery (1949-50)
Earl P. Holt, Jr. ............... Orthopedic Surgery (1949-50)
Alex Harell ...................... Orthopedic Surgery (12-1-48-12-1-49)
J. L. Ehrenhaft .................. Thoracic Surgery (1949-50)
**THE SCHOOL OF MEDICINE**

**House Staff—1948-49**

<table>
<thead>
<tr>
<th>Residents</th>
<th>Surgery</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROBERT ANSCHUETZ</td>
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<tr>
<td>HENRY SCHWARTZ, II</td>
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<td>ROBERT ROYCE</td>
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<td>GEORGE HAWKINS</td>
<td>Neurosurgery</td>
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<tr>
<td>DAVID R. OLIVER</td>
<td>Orthopedics</td>
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<tr>
<td>RALPH BERG</td>
<td>Thoracic Surgery</td>
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<tr>
<td>SANFORD DIETRICH</td>
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<tr>
<td>MARVIN G. RAPE</td>
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<tr>
<td>THOMAS HINCHEN</td>
<td>Neurosurgery</td>
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<td>HARVEY BUTCHER</td>
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<td>ALFRED DECKER</td>
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<td>Joseph Peden</td>
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<td>PAUL KELLER</td>
<td>Alfred Thurlow</td>
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<td>C. BARBER MUELLER</td>
<td>Watts Webb</td>
</tr>
<tr>
<td>LAWRENCE O. NEAL</td>
<td>Richard Yore</td>
</tr>
<tr>
<td>RICHARD PETERS</td>
<td>Robert King</td>
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<td>HARVEY R. BERNARD</td>
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<td>EDWARD J. BISHOP</td>
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<td>THEODORE J. CAPECI</td>
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<td>M. RICHARD CARLIN</td>
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<td>GILBERT CHAMBERLAIN</td>
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<tr>
<td>WILLIAM F. COLLINS, JR.</td>
<td>Surgery</td>
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**House Staff—1949-50**

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<td>BEN EISEMAN</td>
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<td>SANFORD R. DIETRICH</td>
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<td>WATTS R. WEBB</td>
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<td>MARVIN R. RAPE</td>
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<td>ROBERT H. RAMSEY</td>
<td>Orthopedics</td>
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<tr>
<td>WILLIAM E. WALL, JR.</td>
<td>Genitourinary</td>
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<td>Orthopedics</td>
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<tr>
<td>HARRY W. FISCHER</td>
<td>Thoracic Surgery</td>
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<td>(1-1-50—6-30-50)</td>
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</tr>
</tbody>
</table>
Pathology

Robert A. Moore . . . . . . . . . . Pathologist-in-Chief
Assistant Pathologists
Margaret Smith
David Smith

Voluntary Assistant Pathologists
Thomas Young (1948-49)  F. Bertoli (1948-49)
Ellis Van Slyck (1948-49)  Boyd K. Black (1948-50)
Robert Life (1948-49)  Raymond F. Hain (1949-50)
Ancel Earp (1948-49)  Dale M. Schulz (1949-50)
Antonio Villasana (1948-49)  Pradit Tansurat (1949-50)
Eliah Nadel (1948-50)  Frank G. Stephens (1949-50)

House Staff—1948-49
Resident
Thomas Young
Assistant Residents

Lewis Chase  Marvin Orrahood
(Clinical Pathology)

Interns

Clarence M. Pickard

House Staff—1949-50
Resident
Thomas Young
Assistant Residents

Calvin Wegner  William T. Snoddy
Margaret Carter  Menard C. Ihnen
(Clinical Pathology)

Interns

Dale M. Schulz  James C. Roberts
James C. Hawkins
THE SCHOOL OF MEDICINE

CENTRAL LABORATORIES
(Clinical Pathology)

GUSTAVE DAMMIN . . . . . . . . . . . . . . . . . . . . . . . . . Director
JOHN HOBBS

RADIOLOGY
SHERWOOD MOORE . . . . . . . Radiologist-in-Chief (1948-49)
HUGH WILSON . . . . . . . . Radiologist-in-Chief (1949-50)
JOSEPH W. LARIMORE . . . . Associate Radiologist
WENDELL G. SCOTT . . . . Associate Radiologist

Assistant Radiologists
OSCAR ZINK
DONALD BOTTOM
OTTO H. GRUNOW

House Staff—1948-49
Residents
JOSEPH NORTON
Assistant Residents
DALLAS ANTHONY
Interns
WESLEY FEE
THOMAS KEELY, JR.

House Staff—1949-50
Residents
DALLAS ANTHONY
Assistant Residents
WESLEY FEE
A. JACK STACY, JR.
Interns
COLBY S. STEARNS
RICHARD W. EELLS
JESSE B. JOHNSON

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

Assistant Dermatologists
A. H. CONRAD, SR. CLINTON W. LANE
WILLIAM G. COLEMAN IRWIN ESKELES
MARTIN F. ENGMAN, JR. ADOPH H. CONRAD, JR.

Fellows
SETH BARNES
JOSEPH LAND
THOMAS MOFFATT
BULLETIN OF WASHINGTON UNIVERSITY

DENTISTRY

OTTO W. BRANDHORST . . . . . . . . . . . . . . . . . . . . . . . . . . Dentist-in-Chief
B. E. LISCHER . . . . . . . . . . . . . . . . . . . . . . . . . . . . Dentist-in-Chief Emeritus
JAMES A. BROWN . . . . . . . . . . . . . . . . . . . . . . . . . . Associate Dentist
WILLIAM B. SPOTTS . . . . . . . . . . . . . . . . . . . . . . . . Associate Dentist
EDWARD F. ALLEN . . . . . . . . . . . . . . . . . . . . . . . . . . Associate Dentist

Assistant Dentists

LESTER H. JASPER
E. C. BROOKS
WILLIAM E. KOCH, JR.
WEBB B. GURLEY

LEROY W. PETERSON
RUTH E. MARTIN
SIDNEY E. JAYNES
WOODROW O'BRIEN

House Staff

Assistant Resident
ROBERT G. HIRSCHI

PHYSICAL MEDICINE

SEDGWICK MEAD . . . . . . . . . . . . . . . . . . . . . . . . . . . . Chief of Physical Medicine

SPECIAL DEPARTMENTS

JOSEPH ERLANGER, M.D. . . . . . . . . . . . . . . . . . . . . . . . Physiologist Emeritus
H. L. WHITE, M.D. . . . . . . . . . . . . . . . . . . . . . . . . . . Physiologist
CARL CORI, M.D. . . . . . . . . . . . . . . . . . . . . . . . . . . Biochemist
PHILIP A. SHAFFER, PH.D. . . . . . . . . . . . . . . . . . . . Anthropologist Emeritus
ROBERT J. TERRY, M.D. . . . . . . . . . . . . . . . . . . . . . . Chemist
EDMUND V. COWDRY, PH.D. . . . . . . . . . . . . . . . . . . . Anthroplologist
HIROMU TSUCHIYA, SC.D. . . . . . . . . . . . . . . . . . . . . . . Parasitologist
MORRIS MOORE, PH.D. . . . . . . . . . . . . . . . . . . . . . . . . Mycologist
GEORGE H. BISHOP, PH.D. . . . . . . . . . . . . . . . . . . . . Bacteriologist
J. J. BRONFENBRENNER, PH.D., OLIVER LOWRY, PH.D., M.D. . Pharmacologist
W. B. PARKER, A.B.
LAUREN V. ACKERMAN, M.D. . . . . . . . . . . . . . . . . . Surgical Pathologist
THE SCHOOL OF MEDICINE
ST. LOUIS MATERNITY AND BARNES HOSPITAL

OBSTETRICS AND GYNECOLOGY

WILLARD ALLEN . . . . . . . Obstetrician and Gynecologist-in-Chief
HENRY S. CROSSEN . . . . . . Consultant in Obstetrics and Gynecology
OTTO H. SCHWAB . . . . . . Associate Obstetrician and Gynecologist
GRANDISON D. ROYSTON . . Associate Obstetrician and Gynecologist
T. K. BROWN . . . . . . . . Associate Obstetrician and Gynecologist
A. NORMAN ARNESON . . . . Associate Obstetrician and Gynecologist
JOHN E. HOBBS . . . . . . . . . Associate Obstetrician and Gynecologist

Assistant Obstetricians and Gynecologists
MYRON W. DAVIS
FRANZ ARZT
CARL WEGNER
SAMUEL D. SOULE
WILLARD SCHYNER
CHARLES O’KEEFE
FRANK P. MCNALLEY
ADOLPH C. SCHLOSSSTEIN
OTTO S. KREBS
RICHARD PADDOCK
ROBERT J. CROSSEN
GROVER B. LIEB
DUDLEY R. SMITH
MELVIN A. ROBBLE
JOHN B. O’NEILL
KEVIN C. MORRIN

FRANCES H. STEWART
FRANCIS CANEPA
HELMAN C. WASSERMAN
GEORGE J. L. WULFF
HERMAN HUTTO
ARTHUR BORTNICK
DAVID ROTHMAN
MILTON MEYERHARDET
LESLIE E. PATTON
PAUL MAX
ARTHUR T. ESSLINGER
WILLIAM D. HAWKER
SEYMOUR MONAT
WILLIAM H. MASTERS
CHARLES R. GULICK

Voluntary Assistants (Fellows)
DOROTHY MAGALLON (1948-50)
ALVA TRUEBLOOD (1948-49)
ALFRED SUDHOLT (1948-49)
WILLIAM CHAMBERS (1948-49)

Robert Stevens (1948-49)
Seth Wissner (1948-49)
Allen Truex (1948-49)
MacDonald Bonebrake (1949-50)

House Staff—1948-49
RALPH B. WOOLF . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . Resident, Gynecology

Associate Residents
DAVID BLANCHET
CLAUDRE YOUNG

Assistant Residents
JOHN L. CRITES
RALPH HARSH

Interns
JOHN L. COCKRELL
JOHN K. COX
HUGH S. RICHARDS, JR.
DONALD W. ROBINSON

JAMES PENNOYER

ROBERT W. ROSS
CARL T. WOOLSEY

ROBERT M. RUCH
WALLACE R. STACEY
CONRAD R. WALTERS
WILFRED B. WEISBROD
House Staff—1949-50

DAVID BLANCHET  
CARL T. WOOLSEY  

Resident Gynecologist  
Resident Obstetrician

Associate Residents
RALPH T. HARSH  
JOHN L. CRITES

ALFRED I. SHERMAN  
FRANK B. LONG

WALLACE R. STACEY  
JOHN L. COCKRELL

ARThUR L. HASKINS

Assistant Residents
ROBERT BURSTEIN  
MARVIN H. GRODY  
ELFRED H. LAMPE  
ARTHUR G. SARTORIUS

LAURENCE E. MAZE  
Seth E. Wissner  
ANDREW H.VELDHUIS  
WILL VULGARIS

Interns

CONSULTANTS IN PEDIATRICS TO OBSTETRICS
ALEXIS F. HARTMANN  
BORDEN S. VEEDER  
JEAN VALJEAN COOKE  
HELEN M. AFF  
JOSEPH A. BAUER  
ADRIEN BLEYER  
MERL J. CARSON  
MAX DEUTSCH  
GILBERT B. FORBES  
LEO GOWEN (courtesy)  
STANLEY HARRISON  
FREDERICK A. JACobs  
JOSEPH C. JAUDON  
DOROTHY J. JONES  
KENNETH KOERNER (courtesy)  
MARIANNE KUTTNER  
HARRY LAWLER (courtesy)  
SOL LONDE  
MAURICE J. LONSWAY

JOHN MARTH (courtesy)  
DAVID McCLURE (courtesy)  
EDWIN H. ROHLFING  
WAYNE A. RUPE  
ALFRED S. SCHWARTZ  
BERNARD SWARTZMAN  
DON THURSTON  
HARRY EWING WACHTER  
PARK J. WHITE  
PAUL J. ZENTAY  
SAMUEL GOLLUB  
WILLIAM KLINGBERG  
MARTIN CALODNEY (courtesy)  
GENE GRABAU  
DAVID GOLDRING  
NORMAN HANKIN (courtesy)  
C. READ BOLES (courtesy)  
FRANK WISSMATH (courtesy)
THE SCHOOL OF MEDICINE

McMILLAN HOSPITAL

MCMILLAN HOSPITAL AND OSCAR JOHNSON INSTITUTE

DR. FREDERICK E. WOODRUFF .................. President
MRS. ROYAL D. KERCHEVAL .................. Vice-President
MRS. HORTON WATKINS .................. Secretary to the Board

MRS. HENRY ELLIOT
MRS. JAMES LEE JOHNSON
MRS. OSCAR JOHNSON
MR. ERNEST STIX
MRS. RICHARD BALDWIN
MR. HENRY HITCHCOCK
MR. WALLACE RENARD

MRS. FRANK J. V. KREBS
MRS. E. D. NIMS
MR. GEORGE W. SPEAR
MRS. ARTHUR STOCKSTROM
DR. MARTIN HAYWARD POST
MR. HOWARD I. YOUNG

OPHTHALMOLOGY

WILLIAM E. SHAHAN .................. Associate Ophthalmologist

Assistant Ophthalmologists

WILLIAM F. HARDY
F. E. WOODRUFF
M. HAYWARD POST
FREDERICK O. SCHWARTZ
BENNETT Y. ALVIS
WILLIAM M. JAMES
H. R. HILDRETH
CARL C. BEISBARTH
ADOLPH C. LANGE
T. E. SANDERS
WILLIAM H. MEINBERG
BENJAMIN Milder

RUTH FREEDMAN
S. ALBERT HANSE
ROBERT D. MATTIS
PHILIP SHAHAN
DANIEL BISNO
E. B. ALVIS
HARRY ROSENBAUM
JAMES BRYAN
RICHARD G. SCOBEE
PAUL W. MILES
HAROLD BEASLEY

Voluntary Assistants

JOSEPH I. MORELAND (1948-49) ............ EDWARD MURPHY (1948-49)

House Staff—1948-49

Residents

MAX BALDRIDGE

Assistant Residents

DAVID FREEMAN
GEORGE NOEL
JAMES H. SCRUGGS

RICHARD L. THOMAS
STANLEY TRUHLSEN
SOURN CHARMICIAN

House Staff—1949-50

Residents

DAVID FREEMAN
GEORGE NOEL
BULLETIN OF WASHINGTON UNIVERSITY

Assistant Resident
JUSTIN SLEIGHT

OTOLOGY

ASSISTANT OTOLARYNGOLOGISTS

THEODORE E. WALSH . Otolaryngologist-in-Chief

Assistant Otolaryngologists

MILLARD ARBUCKLE
HARRY W. LYMAN
ARTHUR W. PROETZ
ARTHUR M. ALDEN
FRENCH K. HANSEL
JAMES B. COSTEN
ALLEN POTTER
ISAAC D. KELLEY
ALFRED J. CONE
ROBERT VOTAW
HARRY N. GLICK
HELEN GAGE
FRED W. SCHERRER

A. C. STUTSMAN
L. W. DEAN, JR.
H. M. SMIT
GUERDAN HARDY
WILLIAM T. K. BRYAN
BEN H. SENTRY
EDWARD H. LYMAN
G. O'NEIL PROUD
HAROLD CUTLER
MORRIS DAVIDSON
DANIEL KLAPP
JOSEPH OGURA

Fellow
CESAR FERNANDEZ

House Staff—1948-49

VICTOR MOORMAN . . . . . . . . . . . . . . . Resident

Assistant Residents

LOUIS E. ADIN
IRVIN Birenboim
WILSON J. BERWINGER
GEORGE C. GAY
THEODORE HARTRIDGE
MILLARD F. JONES
WATSON B. LARKIN
DORIS S. WOOLSEY

House Staff—1949-50

Residents

LOUIS E. ADIN

Assistant Residents

WILLIAM F. ANDREW
JOSE A. BELLO
CECIL S. FRANKS
ROBERT M. HAZEN

George T. Hodges
Charles C. Jacobs
Joseph J. LitteLL
Joseph W. West

Consultants in Pediatrics to Ophthalmology and Otolaryngology

ALEXIS F. HARTMANN
BORDEN S. VEEDER
JEAN VALJEAN COOKE
HELEN M. AFF
JOSEPH A. BAUER
ADRIEN BLEYER

MERL J. CARSON
MAX DEUTSCH
GILBERT B. FORRES
LEO GOWEN (courtesy)
STANLEY HARRISON
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Ann Fouch
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Lawrence Kahn
Jack Farber

Surgery

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

<table>
<thead>
<tr>
<th>Vilray P. Blair</th>
<th>J. Albert Key</th>
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<tr>
<td>James Barrett Brown</td>
<td>Dalton K. Rose</td>
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<td>Glover H. Gopher</td>
<td>Ernest Sachs</td>
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<td>Robert Elman</td>
<td>Henry G. Schwartz</td>
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<td>Peter Heinbecker</td>
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## Assistant Surgeons

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<tr>
<th>Duff S. Allen</th>
<th>Frederick A. Jostes</th>
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<tr>
<td>Robert W. Bartlett</td>
<td>Stanley M. Leydig</td>
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<td>Eugene Bricker</td>
<td>Carl Lischer</td>
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<td>Thomas Burbard</td>
<td>H. Retton McCarroll</td>
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<td>Louis T. Byars</td>
<td>Frank McDowell</td>
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<td>Cyril J. Costello</td>
<td>Richard Odell</td>
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<td>Clarence H. Creco, Jr.</td>
<td>Maurice B. Roche</td>
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<td>Rogers Deakin</td>
<td>J. Hoy Sanford</td>
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<td>Charles Eckert</td>
<td>Harry L. Thieme</td>
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<td>Arthur O. Fisher</td>
<td>Franklin E. Walton</td>
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<td>Leon Fox</td>
<td>Fred C. Reynolds</td>
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<td>Leonard T. Furlow</td>
<td>George E. Roulhac</td>
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<tr>
<td>Oscar P. Hampton, Jr.</td>
<td>Minot Fryer</td>
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## Voluntary Assistants

<table>
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<tr>
<th>Carl J. Althaus</th>
<th>(Genitourinary Surgery)</th>
<th>Harold Feller</th>
<th>(Genitourinary Surgery)</th>
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<tr>
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<td>Winston H. Vaughan</td>
<td>(Orthopedic Surgery)</td>
<td>Jules H. Kopp</td>
<td>(Genitourinary Surgery)</td>
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<td>Harry Cutler</td>
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<td>Kenneth O. Wilson</td>
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<td>Joseph A. Syslo</td>
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<td>William H. West</td>
<td>(Genitourinary Surgery)</td>
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<tr>
<td>Lee Ford, Jr.</td>
<td>(Orthopedic Surgery)</td>
<td>Edward C. Holscher</td>
<td>(Orthopedic Surgery)</td>
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## Otolaryngology

<table>
<thead>
<tr>
<th>Theodore E. Walsh</th>
<th>Associate Otolaryngologist</th>
</tr>
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<tr>
<td>Harry W. Lyman</td>
<td>Associate Otolaryngologist</td>
</tr>
<tr>
<td>Arthur W. Proetz</td>
<td>Associate Otolaryngologist</td>
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</table>

## Assistant Otolaryngologists

<table>
<thead>
<tr>
<th>Arthur M. Alden</th>
<th>Harry N. Glick</th>
</tr>
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<tbody>
<tr>
<td>Millard F. Arruckle</td>
<td>French K. Hansel</td>
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<td>William T. K. Bryan</td>
<td>Guerdan Hardy</td>
</tr>
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<td>Alfred J. Cone</td>
<td>I. Dee Kelley, Jr.</td>
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<td>James B. Costen</td>
<td>Edward H. Lyman</td>
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<td>Harold Cutler</td>
<td>Allen B. Potter</td>
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<tr>
<td>Lee Wallace Dean, Jr.</td>
<td>G. O'Neil Proud</td>
</tr>
<tr>
<td>Helen Gage</td>
<td>Frederick W. Schefeller, Jr.</td>
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</table>
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** Leave of absence.
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* Voluntary Assistant.

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* Voluntary Assistant.
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FREDERICK A. JACOBS
DOROTHY JONES
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SOL LONDE
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JOHN MARTZ
DAVID McCLURE
BERNARD SCHWARTZMAN
DONALD THURSTON
FRANK S. WISSMATH
PAUL ZENTAY
HARRY E. WACHTER

NEUROPSYCHIATRIC CLINIC

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NEUROPSYCHIATRY

Assistant Psychiatrists

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Chief of Clinic
ALFRED K. BAUR
ROBERT M. BELL
MARGARET C-L. GILDEA
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JACKSON C. NEAVLES
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CONRAD SOMMER
SAMUEL R. WARSON
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VETERANS MENTAL HYGIENE

Assistant Psychiatrists

ROBERT M. BELL
SYDNEY B. MAUGHS
HANS B. MOLHOLM
ERNEST H. PARSONS

THOMAS THALE
LOUIS L. TUREEN
SAMUEL R. WARSON

NEUROLOGY

Assistant Neurologists

ROBERT D. BROOKES
ANDREW B. JONES
ROBERT L. LAM

ROBERT J. MUELLER
SAMUEL A. TRUFANT, III

PSYCHOLOGY

Assistant Psychologists

ROBERT WATSON . . . . . . . Psychologist-in-Chief

SAMUEL GRANICK

CHILD GUIDANCE CLINIC
SAUL ROSENZWEIG, Ph.D. . . . . . . . . Chief Psychologist
ESTHER LEE MIRMOW . . . . . . . . Psychological Assistant
BETTY McD. CALDWELL . . . . . . . . Psychologist
LOYCE BONNER . . . . . . . . . Psychiatric Social Worker
MARGUERITE CANNON . . . . . . . . Psychiatric Social Worker

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ST. LOUIS STATE HOSPITAL

LOUIS KOHLER, M.D. . . . . . . . . Superintendent of State Sanitarium

CITY HOSPITAL (MAX STARKLOFF MEMORIAL)

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LEO GOTTLIEB  
CARL G. HARFORD  
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CARL G. HARFORD ........................................ Infectious Diseases
CARL V. MOORE ........................................ Hematology
I. J. FLANCE ........................................ Chest
KEITH S. WILSON ........................................ Allergy
ROBERT W. KELLEY ...................................... Gastroenterology
GRACE BERGNER ........................................ Metabolic Diseases
VIRGIL SCOTT ........................................ Venereal Diseases
PAUL O. HAGEMANN .................................. Arthritis
A. FLEISHMAN ........................................ Gastroscopist
GEORGE SAUNDERS .................................... Tropical Diseases
LEO GOTTLIEB ........................................ Cardiology

DERMATOLOGY

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NEUROLOGY

JAMES L. O'LEARY ....................................... Section Head

Consultants

JOSEPH GITT  
ROBERT MUELLER

PSYCHIATRY

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Visiting Obstetricians and Gynecologists

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WILLIAM D. HAWKER

Consultants

WILLARD M. ALLEN  
Otto H. SCHWARZ  
SEYMOUR MONAT (Nurses Health Service)

Carl R. WEGNER (Toxemias of Pregnancy)
THE SCHOOL OF MEDICINE

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Consultant

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UROLOGY

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DALTON K. ROSE........................................ Neurosurgery

GEORGE E. ROULHAC.................................. Visiting Surgeon

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LEONARD KEMLER ...................................... (11-1-48 to 1-1-49)

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NEUROLOGY AND PSYCHIATRY

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Consultants

KEITH S. WILSON ..................................... Allergy

PAUL O. HAGEMANN .................................. Arthritis

JOHN R. SMITH ........................................ Cardiology

ALFRED GOLDMAN ..................................... Chest Diseases

IRWIN H. ESKELES .................................. Dermatology

HAROLD SCHEFF ....................................... Gastroenterology

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VIRGIL SCOTT ......................................... Venereal Diseases

GEORGE SAUNDERS .................................... Tropical Diseases
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LOUIS L. TUREEN (Neurology)  H. H. FINGERT (Psychiatry)

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KEVIN C. MERRIN  Section Head

Visiting Obstetricians and Gynecologists

ARTHUR R. BORTNICK  GEORGE J. L. WULFF, JR.

HELMAN C. WASSERMAN

Consultants

WILLARD M. ALLEN  OTTO H. SCHWARZ

T. K. BROWN  CARL R. WEGNER (Toxemias of Pregnancy)

OPHTHALMOLOGY

Visiting Surgeons

E. B. ALVIS  LAWRENCE T. POST

JAMES BRYAN  M. HAYWARD POST

RUTH FREEDMAN  HARRY ROSENBAUM

S. ALBERT HANSEN  FREDERICK O. SCHWARTZ

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PAUL W. MILES  PHILIP T. SHAHAN

LEE W. DEAN  Section Head

OTOLARYNGOLOGY

Visiting Surgeon

MORRIS DAVIDSON

THEODORE E. WALSH  Consultant

PARK J. WHITE  Section Head

PEDiatrics

Visiting Physicians

H. EWING WACHTER  GENE GRABAU

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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 a 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 Radiological Institute, the gift of Mr. Mallinckrodt and his son, was erected in 1931 and has since provided the X-ray services for the whole group. The St. Louis School of Occupational Therapy became a department in the School of Medicine in November, 1945.

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 teach-
ing purposes integral parts of the School of Medicine. Each hospital contains class rooms and laboratories used by the students and staffs.

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

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

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

The Maternity Hospital has quarters for 100 mothers and corresponding facilities for the new-born, the latter under the charge of the department of pediatrics. In addition there are 87 beds for gynecology. The Hospital provides also the headquarters and laboratories of the department of obstetrics and gynecology.

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

The Mallinckrodt Radiological Institute, built adjacent to and connected on each floor with the Barnes Hospital, is owned by the University and is operated as the department of radiology of the Medical School. It provides excellent facilities for X-ray examination and therapy which are utilized by all of the affiliated Hospitals and affords exceptional opportunities for both undergraduate and graduate teaching. By a special endowment the Staff of the Radiological Institute is enabled to carry on researches in both clinical and experimental subjects, independently and in collaboration with other departments. The staff includes residencies for the training of graduate physician radiologists.

The McMillan Hospital for Eye, Ear, Nose and Throat has been conducted until recently only for out-patients in the McMillan Clinics, located on two lower floors of the building; services for bed-patients having been provided in the Barnes and Children's Hospitals. During 1943, the unfinished floors of McMillan Hospital were completed and equipped with the aid of a Government grant made for an expansion of hospital
facilities in St. Louis. The hospital was opened on October 15, 1943 and is conducted for the University and the McMillan Board as a division of the Barnes Hospital. The McMillan Hospital provides about 150 beds with appropriate treatment and operating rooms for the services of Ophthalmology and Otolaryngology and also a separate section for neuropsychiatric and medical patients requiring special forms of treatment.

The Oscar Johnson Institute, which occupies the five upper floors of the McMillan Hospital-Institute Building, is primarily the research and teaching laboratories for the departments of ophthalmology and 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 investigation—will be extended as joint institutional responsibilities to all classes of ambulant as well as hospitalized patients.

The St. Louis City Hospitals are also utilized for both undergraduate and graduate teaching. The Medical School nominates the staffs for one division of the City Hospital, of the Bliss 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, 1948) 68,093 bound volumes and receives 743 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
THE SCHOOL OF MEDICINE

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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, Emeritus Professor 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 satisfactory performance of certain scholastic work.

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

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

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

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

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

d. A knowledge of the principles of general biology, afforded by a course or courses with laboratory work.

As a general rule, the Committee on Admissions interprets the minimum subject requirements as follows:

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

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

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

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

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

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

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

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

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

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

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

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

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

ADMISSION OF GRADUATES IN MEDICINE

Applicants who hold the M.D. degree are not accepted as candidates for that degree except under unusual circumstances.

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

STANDING AND PROMOTION

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

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

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

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

Major Subjects.

First year: Morphology, Neurology, Biochemistry, Physiology.

Second Year: Bacteriology, Pathology, Pharmacology, Medicine, Sur-
gery (½).

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

Fourth Year: Medicine, Obstetrics and Gynecology, Pediatrics, Sur-
gery, Ophthalmology (½), Otolaryngology (½).

(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 with-
draw 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 Scholar-
ships that a student be allowed to repeat certain courses as a special
student or to repeat the work of the entire year as a member of the
next class.

The registration of a student may be canceled at any time if in the
opinion of the faculty his further attendance is deemed undesirable. A
pro rata refund of the tuition will be made in such cases.

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 indebted-
ness 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 UniversitySchool 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 students confer with the Assistant Dean, concerning the character of the services offered by various hospitals and the selection of the hospital of his choice. The Assistant Dean also advises the hospitals concerning the qualifications of students who apply for appointment. Virtually every graduate of the School is placed in a suitable internship.

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

PRIZES

GEORGE F. GILL PRIZES:
1. One prize of fifty dollars is awarded at the end of the first year to the member of the class who has 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:

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<thead>
<tr>
<th>Western</th>
<th>Rocky Mountain</th>
<th>North Central</th>
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<tbody>
<tr>
<td>California</td>
<td>Arizona</td>
<td>Illinois</td>
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<td>Nevada</td>
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<td>Oregon</td>
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<td>Washington</td>
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<td>Alaska</td>
<td>New Mexico</td>
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<td>Pacific Islands</td>
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<table>
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<tr>
<th>South Central</th>
<th>Southeastern</th>
<th>Northeastern</th>
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<td>Alabama</td>
<td>Delaware</td>
<td>Indiana</td>
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<td>Arkansas</td>
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<td>Kentucky</td>
<td>Georgia</td>
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<td>Louisiana</td>
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<tr>
<td>Oklahoma</td>
<td>South Carolina</td>
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<td>Tennessee</td>
<td>Virginia</td>
<td>New England</td>
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<tr>
<td>Texas</td>
<td>West Virginia</td>
<td>Connecticut</td>
</tr>
<tr>
<td>Canal Zone</td>
<td>Washington, D. C.</td>
<td>Maine</td>
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<td></td>
<td>Puerto Rico</td>
<td>Massachusetts</td>
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<td></td>
<td>Virgin Islands</td>
<td>New Hampshire</td>
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<td>Rhode Island</td>
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<td></td>
<td></td>
<td>Vermont</td>
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</tbody>
</table>

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

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

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

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

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

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

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

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

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

Renewal. Awards may be renewed with the same or different stipends for not to exceed, in all, three years, provided the achievements of the fellow justify continued study.
Application. All applications should be completed by March 1 for the period beginning the following July or September. Awards will be announced about April 1.

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

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

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

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

The Dr. John B. Shapleigh Scholarship. From a bequest of the late Dr. John B. Shapleigh, supplemented by contributions by the late Mrs. Shapleigh and Miss Margaret Shapleigh, a fund has been established, the income of which is used to pay the tuition of students in need of assistance.

The Eliza McMillan Student Aid Fund. The annual income from a bequest of the late Mrs. Eliza McMillan provides a scholarship of about $200 for a deserving woman student in the School of Medicine.

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

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

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

Andrew Rankin Fleming and Susie Fleming Fund. Through the bequest of the late Mrs. Susie Fleming, $150.00 from the income of this Fund is available annually for scholarships for worthy and needy students in the School of Medicine.
THE ALINE RIXMAN LOAN FUND. Provided through the gift of Mr. William Rixman the fund is used to alleviate unexpected financial emergencies that arise among medical students during the academic year. The fund is available to any student who in the judgment of the Dean gives promise of becoming a competent physician. It is expected that loans will be repaid within a reasonable time after the student has finished his training. The loans are granted by the Chancellor on the recommendation of the Dean.

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

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

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, 1949-50 is scheduled for Wednesday, September 7 (new students) and Saturday morning, September 10 (former students); for the second half year, Monday, January 30, 1950.

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.

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.

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 $664.00, payable in two equal installments, at the beginning of the first and second semesters. Tuition will be $764.00 beginning in September, 1950.

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, flashlights, head mirrors and skin pencils as the need for them arises.

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

ESTIMATE OF EXPENSES

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
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<tbody>
<tr>
<td>Tuition</td>
<td>$664.00</td>
</tr>
<tr>
<td>Matriculation Fee (payable once)</td>
<td>5.00</td>
</tr>
<tr>
<td>Health Service Fee</td>
<td>36.00</td>
</tr>
<tr>
<td>Books and Instruments</td>
<td>$75.00 to 150.00</td>
</tr>
<tr>
<td>Room and Board (from $15.00 to $20.00 a week)</td>
<td>540.00 to 720.00</td>
</tr>
</tbody>
</table>

$1315.00 to $1575.00

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 characterize the basic professional course in medicine.

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

FIRST YEAR

NEUROLOGY

A laboratory course in gross and microscopical anatomy and in physiology of the nervous system. 168 hours.

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

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 and Pediatrics. Lectures in "Applied Pathologic Physiology" are correlated, as far as possible, with the subject matter being considered in Clinical Diagnosis and Clinical Chemistry and Microscopy. The number of hours allotted to each department in the conjoint courses is included in the listing of courses under the respective departmental headings. The following courses are included in this arrangement:

Medicine: 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

JOHN HOBS
GILBERT FORBES

WILLIAM JAMES
L. W. DEAN, JR.

GEORGE SASLOW
PETER HEINBECKER
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, Finerty, Rowe)

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. Cowdry, Lansing, Kuff)

**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.)

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*Note—The numbers in parentheses 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

Alfred D. Hershey, Ph.D.
Associate Professor of Bacteriology and Immunology

Samuel J. Ajl, Ph.D.*
Assistant Professor of Bacteriology and Immunology

Hiromu Tsuchiya, Sc.D. Assistant Professor of Parasitology

Philip L. Varney, M.S., Ph.D.
Assistant Professor of Bacteriology and Immunology

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

David Hershey, M.S. Assistant in Bacteriology and Immunology

Harriet D. Hershey, B.A.†
Research 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, Hershey, 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. Serum therapy. Hypersensitiveness. Two lectures and six hours of laboratory work each week during half of the first trimester, 44 hours.

(Drs. Bronfenbrenner, Hershey, Varney)

22. (533). PARASITOLOGY. The course is designed to present brief discussion of protozoan and metazoan parasites of medical importance, as

† 1948-49.
* 1948-50.
1 Effective November 1, 1948.
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. Krahl, Ph.D.* .................................. Associate Professor of Biological Chemistry
J. Oliver Lampen, Ph.D.† .................................. Assistant Professor of Biological Chemistry
Norman S. Olsen, Ph.D. .................................. Assistant Professor of Biological Chemistry

(Partly assigned to the Department of Medicine)

Paul W. Preisler, Ph.D. .................................. Assistant Professor of Biological Chemistry

Ethel Ronzoni-Bishop, Ph.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. .................................. Assistant Professor of Biological Chemistry

Earl Sutherland, M.D. .................................. Instructor in Biological Chemistry
Sidney I. Udenfriend, Ph.D. .................................. Instructor in Biological Chemistry
Graham T. Webster, M.D. .................................. Instructor in Biological Chemistry
Robert Loeffel, B.S. .................................. Research Assistant in Biological Chemistry
Henry Z. Sable, M.D. .................................. Assistant in Biological Chemistry

Milton Slein, M.S.† .................................. Research Associate in Biological Chemistry

Tadeus Baranowski, M.D. .................................. Fellow in Biological Chemistry

David H. Brown, Ph.D. 2 .................................. Meck Post Doctoral Fellow in Biological Chemistry

Lionel A. Manson, B.A. 3 .................................. National Institute of Health Fellow in Biological Chemistry

Charles R. Park, M.D. 4 .................................. National Institute of Health Fellow in Biological Chemistry

Theodore Z. Posternak 5 .................................. Research Fellow in Biological Chemistry

Eva G. Walaaas, M.D. 5 .................................. Research Fellow in Biological Chemistry

Otto Walaaas, M.D. 5 .................................. Fellow of the Royal Norwegian Ministry of

Education 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, Krahl, Olsen, Preisler, Taylor, Velick, Sutherland, Udenfriend, 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.

* 1948-49.
† 1949-50.
2 July 1 to September 30, 1948.
3 October 1, 1948 to September 30, 1949.
4 July 1, 1948 to April 30, 1949.
5 July 1, 1948 to September 30, 1949.
6 April 1, 1949 to March 31, 1950.
7 July 1, 1948 to August 31, 1949.
The JOHN T. MILLIKEN DEPARTMENT OF MEDICINE
(The Department of Medicine includes Internal Medicine and Dermatology)

WILLIAM BARRY WOOD, JR., M.D. .................. Busch Professor of Medicine
CARL V. MOORE, M.D. ................................. Professor of Medicine
ROBERT E. SHANK, M.D. ............................. Professor of Preventive Medicine
HARRY L. ALEXANDER, M.D. .......................... Professor of Clinical Medicine
WARREN P. ELMER, M.D.* ............................. Associate Professor Emeritus of Clinical Medicine
WALTER FISCHEL, M.D.* ............................. Associate Professor Emeritus of Clinical Medicine

GUSTAVE DAMMIN, M.D.* ............................. Associate Professor of Medicine
WARREN P. ELMER, M.D.† ............................. Associate Professor of Clinical Medicine
CARL G. HARFORD, M.D.* ............................. Associate Professor of Medicine
JOSEPH W. LARimore, M.D. .......................... Associate Professor of Clinical Medicine
DREW W. LUTEN, M.D. ................................. Associate Professor of Clinical Medicine
CYRIL M. MACBRYDE, M.D. .......................... Associate Professor of Clinical Medicine
WILLIAM H. OLmSTED, M.D. ........................ Associate Professor of Clinical Medicine
EDWARD REINHARD, M.D.* ........................ Associate Professor of Medicine
HENRY A. SCHROEDER, M.D. ........................ Associate Professor of Medicine
JOHN R. SMITH, M.D.* ............................... Associate Professor of Medicine
LEON BROMBERG, M.D. ............................... Associate Professor of Clinical Medicine
ARTHUR C. BROOKS, M.D.* .......................... Associate Professor of Clinical Medicine
SAMUEL C. BUKANTZ, M.D.* ........................ Associate Professor of Medicine
HAROLD A. BULGER, M.D. ............................ Assistant Professor of Clinical Medicine
JEROME E. COOK, M.D. ............................... Assistant Professor of Clinical Medicine
GUSTAVE DAMMIN, M.D.† .............................. Assistant Professor of Medicine
CHARLES W. DUDEN, M.D. ............................ Assistant Professor of Clinical Medicine
CHARLES H. EYERMANN, M.D. ........................ Assistant Professor of Medical Science
WALTER FISCHEL, M.D.† ............................... Assistant Professor of Clinical Medicine
ALFRED GOLDMAN, M.D. .............................. Assistant Professor of Clinical Medicine
LEO GOTTLIEBER, M.D. ............................... Assistant Professor of Clinical Medicine
SAMUEL B. GRANT, M.D. ............................. Assistant Professor of Clinical Medicine
PAUL O. HAGEMANN, M.D. ............................ Assistant Professor of Clinical Medicine
CARL G. HARFORD, M.D.† ............................. Assistant Professor of Medicine
THOMAS HUNTER, M.D. ............................... Assistant Professor of Medicine
BRUCE D. KENAMORE, M.D.* ........................ Assistant Professor of Clinical Medicine
GEORGE D. KETTELKAMP, M.D. ........................ Assistant Professor of Clinical Medicine
ESBEN KIRK, M.D. ...................................... Assistant Professor of Medicine
WILLIAM B. KOUNTZ, M.D. .......................... Assistant Professor of Clinical Medicine
JOHN V. LAWRENCE, M.D. ............................ Assistant Professor of Clinical Medicine
EDWARD MASSIE, M.D. ............................... Assistant Professor of Clinical Medicine
SEDGWICK MEAD, M.D. ............................... Assistant Professor of Physical Medicine
ALBERT I. MENDELOFF, M.D., M.P.H.* .............. Assistant Professor of Medicine
NORMAN S. OLSEN, Ph.D. ............................ Assistant Professor of Biological Chemistry
EDWARD REINHARD, M.D.† ............................ Assistant Professor of Medicine
LLEWELLYN SALE, M.D. ............................... Assistant Professor of Clinical Medicine
VIRGIL SCOTT, M.D.† ................................. Assistant Professor of Medicine
JOHN R. SMITH, M.D.† ................................. Assistant Professor of Medicine
ARTHUR E. STRAUSS, M.D. .......................... Assistant Professor of Clinical Medicine
BArRETT TAUSSIG, M.D. ............................... Assistant Professor of Clinical Medicine
LAWRENCE D. THOMPSON, M.D. ........................ Assistant Professor of Clinical Medicine
LEO WADE, M.D.† ...................................... Assistant Professor of Medicine
RAY D. WILLIAMS, M.D. ............................. Assistant Professor of Clinical Medicine
KEITH S. WILSON, M.D. .............................. Assistant Professor of Clinical Medicine

† 1948-49.
* 1949-50.
THE SCHOOL OF 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. ATKEN, 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
GRACE BERGNER, M.D. ...................................................... Instructor in Clinical Medicine
LOREN F. BLANEY, M.D. .................................................... Instructor in Clinical Medicine
SIM F. BEAM, M.D. .......................................................... Instructor in Clinical Medicine
WILLIAM G. BECKE, M.D. ................................................... Instructor in Clinical Medicine
ARTHUR C. BROOKS, M.D. .................................................. Instructor in Clinical Medicine
SAMUEL C. BUKANTZ, M.D. ................................................ Instructor in 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
DEAN F. DAVIES, 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
ROBERT J. GLASER, 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. KEELEY, M.D. ................................................... Instructor in Clinical Medicine
BRUCE KENAMORE, M.D. ................................................... Instructor in Clinical Medicine
DAVID N. KERR, M.D. ........................................................ Instructor in Clinical Medicine
ROBERT C. KINGSLAND, 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
HERMAN ROSENFELD, M.D. ................................................ Instructor in Clinical Medicine
ERNST T. ROUSE, M.D. ....................................................... Instructor in Clinical Medicine
LLEWELLYN SALE, Jr., M.D. ................................................. Instructor in Clinical Medicine
HAROLD SCHEFF, M.D. ........................................................ Instructor in Clinical Medicine
JOHN SEIDON, M.D. ........................................................ Instructor in Clinical Medicine
DAVID SKILLING, M.D. ...................................................... Instructor in Clinical Medicine
MILTON SMITH, M.D. ....................................................... Instructor in Clinical Medicine
ROBERT M. SMITH, M.D. .................................................... Instructor in Clinical Medicine
FRANZ U. STEINBERG, M.D. .............................................. Instructor in Clinical Medicine
C. MALONE STRoud, M.D. ................................................ Instructor in Clinical Medicine
JOHN H. WEDIG, M.D. ...................................................... Instructor in Clinical Medicine
HARRY WIESE, M.D. ......................................................... Instructor in Clinical Medicine
ARNOLD H. WILLIAMS, M.D. .............................................. Instructor in Physiology in Medicine
OLIVER ABEL, Jr., M.D. .................................................... Assistant in Clinical Medicine

† 1948-49.
* 1949-50.
1 In residence at Los Alamos.
2 Deceased, October 4, 1948.
BERNARD BERCU, M.D.  Assistant in Medicine
BENJAMIN H. CHARLES, M.D.  Assistant in Clinical Medicine
CECIL M. CHARLES, M.D.  Assistant in Clinical Medicine
AMOZ I. CHERNOFF, M.D.  Assistant in Medicine
DAVID S. CITRON, M.D.  Assistant in Medicine
HELEN E. CLARK, M.D.*  Assistant in Medicine
WILLIAM A. CLAY, M.D.  Assistant in Medicine
CARL L. COOK, JR., M.D.  Assistant in Medicine
WILLIAM M. DAILY, M.D.  Assistant in Medicine
CHARLTON DE SAUSSURE, M.D.  Assistant in Medicine
NORALD W. DREY, M.D.  Assistant in Clinical Medicine
ALBERT B. EISENSTEIN, M.D.  Assistant in Medicine
GLADDEN V. ELLIOTT, M.D.  Assistant in Medicine
ALONZA L. FARR, M.D.†  Assistant in Medicine
J. J. FLANCE, M.D.†  Assistant in Clinical Medicine
ALFRED FLEISHMAN, M.D.  Assistant in Clinical Medicine
BRUCE T. FORSYTH, M.D.  Assistant in Medicine
HAROLD FREEDMAN, M.D.  Assistant in Clinical Medicine
HERBERT FRITZ, M.D.‡  Assistant in Medicine
RALPH GIESSEL, M.D.  Assistant in Medicine
B. Y. GLASSEB, M.D.  Assistant in Clinical Medicine
VERNE F. GOERGER, M.D.§  Assistant in Clinical Medicine
MELVIN GOLDMAN, M.D.¶  Assistant in Clinical Medicine
JAMES T. GOO, M.D.¶  Assistant in Medicine
KENDALL D. GREGORY, M.D.  Assistant in Clinical Medicine
AXEL R. GRONAU, M.D.  Assistant in Clinical Medicine
SAMUEL B. GUZE, M.D.  Assistant in Medicine
JOE BILL HALL, M.D.*  Assistant in Medicine
MARY HARA, A.B.  Research Assistant in Medicine
LEE B. HARRISON, M.D.  Assistant in Clinical Medicine
BERNARD HULBERT, M.D.  Assistant in Clinical Medicine
MARY JOHNSON, A.B.  Research Assistant in Medicine
JOHN KENNEDY, M.D.  Assistant in Clinical Medicine
NORMAN P. KNOWLTON, M.D.*  Assistant in Medicine
ROBERT KOCH, M.D.  Assistant in Medicine
LAWRENCE M. KOTNER, M.D.  Assistant in Clinical Medicine
ROBERT C. LANGE, M.D.  Assistant in Medicine
WARREN LONERGAN, M.D.  Assistant in Clinical Medicine
WILLIAM D. LOVE, IV, MD.  Assistant in Medicine
H. O. LOYD, M.D.¶  Assistant in Medicine
LAWRENCE K. MACDANIELS, M.D.§  Assistant in Clinical Medicine
KURT MANSBRACH, M.D.  Assistant in Clinical Medicine
ARNOLD S. MOE, M.D.  Assistant in Clinical Medicine
JOSEPH NOAH, M.D.*  Assistant in Clinical Medicine
FRANK B. NORBURY, M.D.*  Assistant in Medicine
WILLIAM D. PERRY, M.D.  Assistant in Medicine
ERNST T. ROUSE, M.D.‡  Assistant in Medicine
SAMUEL E. SCHECHTER, M.D.§  Assistant in Clinical Medicine
CHARLES SHAFER, M.D.  Assistant in Medicine
BURTON A. SHATZ, M.D.  Assistant in Medicine

1 1948-49.
2 1949-50.
3 July 1 to August 31, 1948.
4 Resigned April 1, 1949.
5 Effective January 1, 1949.
6 July 1 to December 31, 1948.
7 Effective October 1, 1948.
8 Effective October 20, 1948.
9 Effective April 1, 1949.
10 In residence at Los Alamos.
For the purposes of both teaching and research the Department of Medicine is divided into specialty divisions, under the following directors:

<table>
<thead>
<tr>
<th>Specialty Division</th>
<th>Director</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allergy</td>
<td>Dr. Alexander</td>
</tr>
<tr>
<td>Arthritic Disease</td>
<td>Dr. Hagemann</td>
</tr>
<tr>
<td>Cardiovascular Disease</td>
<td>Dr. J. Smith</td>
</tr>
<tr>
<td>Chest Disease</td>
<td>Dr. Goldman</td>
</tr>
<tr>
<td>Dermatology</td>
<td>Dr. Weiss</td>
</tr>
<tr>
<td>Gastroenterology</td>
<td>Dr. Duden</td>
</tr>
<tr>
<td>Hematology and Nutrition</td>
<td>Dr. C. V. Moore</td>
</tr>
<tr>
<td>Hypertension</td>
<td>Dr. Schroeder</td>
</tr>
<tr>
<td>Infectious Disease</td>
<td>Dr. Harford</td>
</tr>
</tbody>
</table>

† 1948-49.
* 1949-50.
† 1 July 1 to August 31, 1948.
† 1 July 1 to September 30, 1948.
* Effective September 1, 1949.
Instruction in medicine commences with the second trimester of the second year and continues throughout the third and fourth years of the curriculum. The teaching of the second year has two main objectives—first, the correlation of the basic sciences with the clinical aspects of disease, and secondly, training in the technical methods of physical examination and laboratory diagnosis. By the beginning of the third year the student is prepared for supervised clinical study of individual patients in the wards. The emphasis in the junior year is placed upon clinical diagnosis. In the final year each student acts for 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.

SECOND YEAR

20. ELEMENTARY MEDICINE.

(a) Physiological Interpretation of Signs and Symptoms. Observation and interpretation of the symptoms and signs of disease, with special reference to pathological anatomy and physiology. Part of Conjoint Medicine. (See page 98.) 30 hours.

(Drs. Wood, Duden, Goldman, Harford, MacBryde, C. V. Moore, Reinhard, J. Smith, Schroeder, Wade, R. Williams)

(b) Clinical Diagnosis. Lectures, demonstrations and practical exercises in the technique of clinical diagnosis. Part of Conjoint Medicine. (See page 98.) 135 hours.

(Drs. Reinhard, Bromberg, Hunter, Massie, Smith 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 98.) 144 hours.

(Drs. Carl Moore, Reinhard, Agress, Dammin, Harford, Miss Minnich)

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. The work is supervised by clinical instructors, each of whom is responsible for not more than three students. Teaching exercises include ward rounds, clinics and afternoon work in the wards and laboratories. 31 hours a week for eight weeks. 248 hours.

(Drs. Taussig, Baumgarten, Bergner, Erlanger, Gottlieb, Karl, Kerr, Koch, Sale, Jr., Steinberg)
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. Fiance)

(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.  
(Drs. C. Moore and Reinhard)

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 and on the Metabolism Ward once a week. These students also attend weekly Staff Rounds. 198 hours.  
(Drs. Wood, Bukantz, Harford, Hunter, MacBryde, C. Moore, Park, Reinhard, Scott, Smith, Wade, Williams)

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

Morning

Medicine A Clinic (General Medicine)  

Medicine B Clinic (General Medicine)  
(Drs. Strauss, Bean, Bromberg, Bulger, Cannady, C. Charles, Drey, Duden, Edwards, Elson, Fleishman, Glassberg, Grant, Gregory, Hagemann, Jean, Kelley, Kirstein, Kotner, Liggett, Scheff, Skilling, M. Smith)
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, Alexander, Duden, Goldman, Hagemann, Harford, MacBryde, Carl Moore, Reinhard, Schroeder, Scott, Shank, Smith)

42. CLINICAL PATHOLOGICAL CONFERENCES. Abstracts of the clinical records of patients upon whom post mortem examinations have been performed are presented in advance to members of the third and fourth 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 Clerkship at Homer Phillips Hospital. Six students—All day for six weeks. Attendance at ward rounds and conferences. Students will be given an opportunity to study selected patients admitted to the medical wards. (Dr. Glaser and Staff)

51. Medical Clinics. Four students—Mornings and afternoons, six weeks. General medical clinics each morning and Gastrointestinal (Monday), Allergy (Tuesday), Arthritic (Wednesday) and Endocrine (Thursday) Clinics in afternoon. (Drs. Brooks, Kenamore, Eyermann, Hagemann, and Olmsted)

52. 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 Conference at Koch Hospital. (Drs. Kettelkamp, Friedman)

53. 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. MacBryde)

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

(Dr. Harford)

55. Hematology. One senior student may be accepted each 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)

56. Medical Research. A limited number of qualified students are given the opportunity to carry on original research in the laboratories of the Department of Medicine.

(Dr. Wood)

SECTION ON DERMATOLOGY

RICHARD S. WEISS, M.D. .................. Professor of Clinical Dermatology
MARTIN F. ENGMAN, M.D. .................. Professor Emeritus of Clinical Dermatology
ADOLPH CONRAD, M.D. .................. Assistant Professor of Clinical Dermatology
CLINTON W. LANE, M.D. .................. Assistant Professor of Clinical Dermatology
JAMES W. BAGBY, M.D. .................. Instructor in Clinical Dermatology
WILLIAM G. COLEMAN, M.D. .................. Instructor in Clinical Dermatology
ADOLPH H. CONRAD, JR., M.D.* .................. Instructor in Clinical Dermatology
MARTIN F. ENGMAN, JR., M.D. .................. Instructor in Clinical Dermatology
GEORGE MANTELL, M.D. .................. Instructor in Clinical Dermatology
MORRIS D. MARCUS, M.D.* .................. Instructor in Clinical Dermatology
M. H. SCHEELE, M.D. .................. Instructor in Clinical Dermatology
ADOLPH H. CONRAD, JR., M.D.† ....... Assistant in Clinical Dermatology
CALVIN C. ELLIS, M.D. .................. Assistant in Clinical Dermatology
IRWIN H. ESKELES, M.D. .................. Assistant in Clinical Dermatology
LAWRENCE K. HALPERN, M.D. ......... Assistant in Clinical Dermatology
MORRIS D. MARCUS, M.D.† ............ Assistant in Clinical Dermatology
MORRIS MOORE, PH.D. .................. Mycologist to the Department of Dermatology
DANIEL C. TWEEDALL, M.D. ............ Assistant in Clinical Dermatology
EUGENE P. WEBER, M.D. ............ Assistant in Clinical Dermatology
WILBUR E. WOODRIDGE, M.D.† ............ Research Assistant in Dermatology
SETH S. BARNES, M.D. ............ Fellow in Dermatology
JOSEPH V. LAND, M.D.* .................. Fellow in Dermatology (United States Navy)
THOMAS W. MOFFATT, M.D. ............ Fellow in Dermatology
FRANK G. WITHERSPOON, M.D.* ......... Fellow in Dermatology

FOURTH YEAR

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

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

† 1948-49.
* 1949-50.
1 Effective March 1, 1949.
2 Effective October 1, 1948.
Wednesdays—2:00 to 4:00 p. m.—The Barnard Free Skin and Cancer Hospital. (Dr. Weiss and Staff)

**ELECTIVE COURSE**

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

Mondays—2:00 to 4:00 p. m.—Skin Clinic, Washington University Clinics. (Dr. Weiss and Staff)
THE SCHOOL OF MEDICINE

NEUROPSYCHIATRY

EDWIN F. GILDEA, M.D. ... Wallace Renard Professor of Psychiatry
GEORGE H. BISHOP, Ph.D. ... Professor of Neurophysiology
JAMES L. O'LEYEY, M.D. ... Professor of Neurology
SAUL ROSENZWEIG, Ph.D. ... Associate Professor of Medical Psychology
GEORGE SASLOW, M.D. ... Associate Professor of Psychiatry
ROBERT I. WATSON, Ph.D. ... Associate Professor of Medical Psychology
ARCHIE D. CARR, M.D. ... Assistant Professor of Clinical Neurology
HYMAN H. FINGERT, M.D. ... Assistant Professor of Clinical Psychiatry
MARGARET C-L. GILDEA, M.D. ... Associate Professor of Clinical Psychiatry
JOSEPH J. GITT, M.D. ... Assistant Professor of Clinical Neurology
ANDREW B. JONES, M.D. ... Assistant Professor of Clinical Neurology
IRWIN LEVY, M.D. ... Assistant Professor of Clinical Neurology
SYDNEY B. MAUGHS, M.D. ... Assistant Professor of Clinical Psychiatry
IVAN N. MENSCH, Ph.D. ... Assistant Professor of Medical Psychology
HANS B. MOHLHOLM, M.D. ... Assistant Professor of Psychiatry
ERNST H. PARSONS, M.D. ... Assistant Professor of Clinical Psychiatry
ETHEL RONZONI-BISHOP, PH.D. ... Assistant Professor of Biological Chemistry in Neuropsychiatry
VAL B. SATTERFIELD, M.D. ... Assistant Professor of Clinical Psychiatry
CONRAD SOMMER, M.D. ... Assistant Professor of Clinical Psychiatry
LOUIS L. TUREEN, M.D. ... Assistant Professor of Clinical Neurology
SAMUEL R. WATSON, M.D. ... Assistant Professor of Psychiatry
ALFRED K. BAUR, M.D. ... Instructor in Clinical Psychiatry
ROBERT M. BELL, M.D. ... Instructor in Clinical Psychiatry
ALFRED D. BUCHMUELLER, A.B. ... Instructor in Psychiatric Social Work
ANTHONY K. BUSCH, M.D. ... Instructor in Clinical Psychiatry
DOROTHY CASE, M.D. ... Instructor in Child Psychiatry
FELICE M. EMERY, M.D. ... Instructor in Clinical Psychiatry
MARGARET C-L. GILDEA, M.D. ... Instructor in Clinical Psychiatry
JOSEPH J. GITT, M.D. ... Instructor in Clinical Neurology
JAMES S. GLOTTERTY, M.D. ... Instructor in Clinical Psychiatry
SAMUEL GRANICK, M.D. ... Instructor in Medical Psychology
ALEX H. KAPLAN, M.D. ... Instructor in Clinical Psychiatry
PAUL E. KURTSCHIEK, M.D. ... Instructor in Clinical Child Psychiatry
SYDNEY B. MAUGHS, M.D. ... Instructor in Clinical Psychiatry
IVAN N. MENSCH, Ph.D. ... Instructor in Medical Psychology
ANNE M. RITTER, PH.D. ... Instructor in Medical Psychology
WILLIAM J. ROBINSON, M.D. ... Instructor in Clinical Psychiatry
FRANK O. SHOBE, M.D. ... Instructor in Clinical Psychiatry
THOMAS THALE, M.D. ... Instructor in Psychiatry
PAUL J. ZENTAY, M.D. ... Instructor in Clinical Neurology
BETTY McDONALD CALDWELL, M.A. ... Instructor in Clinical Neurology
MARGARET CANNON, M.S.W. ... Assistant in Psychiatric Social Work
ARTHUR H. CHAPMAN, M.D. ... Assistant in Neuropsychiatry
MARGARET H. CLARE, B.S. ... Research Assistant in Neurophysiology
ROBERT M. COUNTS, M.D. ... Assistant in Neuropsychiatry
FRANK R. EGGLOFF, M.D. ... Assistant in Neuropsychiatry
JANET GOLDEN, B.S. ... Assistant in Psychiatric Social Work
WELLS GOODRICH, M.D. ... Assistant in Neuropsychiatry
BERNARD S. GORDON, M.D. ... Assistant in Neuropsychiatry

1 1948-49.
2 1949-50.
3 Effective August 30, 1948.
4 Effective September 26, 1948.
5 Effective September 1, 1948.
6 July 1 to July 31, 1948.
7 Effective January 1, 1949.
Instruction in the Department of Neuropsychiatry is given in all four years of the medical course. In the first semester a course is given on the structure of the personality, with particular emphasis on the development of attitudes. Other lectures and demonstrations in the first and second years are designed to correlate clinical neurology with neuroanatomy, laying special emphasis upon the integration of organic functions through neural mechanisms and the encephalization and corticalization of personality functions.
In the second year, correlated with medical and surgical instruction in history-taking and in physical examination, elementary instruction is given in the approach to the patient as a person. This is done in demonstration interviews, with subsequent discussion. The student begins to appreciate the chief patterns of behavior that characterize a given person; the vulnerabilities of the person when these patterns are inadequate for important life situations; the symptoms (disturbances in physiology, emotion and thinking) associated with ineffective management of common and uncommon life crises; and the nature of adequate reactions to life crises.

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

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

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

**FIRST YEAR**

10. *Neuropsychiatry.*

**Introduction to Medical Psychology.** Lectures, essays and personal discussions concerning the development of human attitudes and emotional reactions affecting the study of practice of medicine. 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 Interviewing of Patients. (Part of Conjoint Medicine [see page 98].) Demonstrations of interviewing of patients with a diversity of clinical problems. Discussion of the means used to establish an effective physician-patient relationship, and to elicit spontaneously essential information of personal import. 15 hours. (Dr. G. Saslow)
20. NEUROLOGY.

NEUROLOGICAL EXAMINATION IN CLINICAL DIAGNOSIS. (Part of Conjoint Medicine [see page 98].) Lectures, demonstrations and exercises in the neurological examination of the patient. 6 hours.

(Dr. Levy in conjunction with Dr. Wood and Assistants)

PATHOLOGY OF BEHAVIOR. Instruction in history-taking from the viewpoint of comprehensive medicine, and in development and identification of the major types of behavior disorders, by means of lectures, test, demonstration interviews (by members of various departments) and general discussion. 36 hours. (Dr. G. Saslow)

20. PATHOLOGY OF BEHAVIOR. (Continued as part of Conjoint Medicine.) 18 hours. (Dr. G. Saslow)

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 Washington University Clinics (Neuropsychiatry). Seminars covering the fundamentals of diagnosis, psychopathology and therapy are given during this period of time. 126 hours. (Drs. E. Gildea, Warson, Fingert, Maughs, M. Gildea, Shobe, Robinson, Baur, Busch, Thale, Mr. Buchmueller)

31. NEUROLOGY.

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

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.  

(Dr. G. Saslow)

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

(Dr. Saslow)

(c) PEDIATRIC PSYCHIATRY. Three meetings per 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. Jones, O'Leary, Levy)

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 Hospital, the Bliss Institute, the City Sanitarium, the Barnes Hospital, or the University Clinics. Each student must make his wishes known to Dr. E. F. Gildea and must then obtain the approval of the staff member who will supervise the work.  

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

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

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

WILLARD M. ALLEN, M.D. Professor of Obstetrics and Gynecology

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

T. K. BROWN, M.D. Professor of Clinical Obstetrics and Gynecology

GRANDISON D. ROYSTON, M.D. Professor of Clinical Obstetrics and Gynecology

OTTO HENRY SCHWARZ, M.D.* Associate Professor of Clinical 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

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

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

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

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

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

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

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

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

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

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

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

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

WILLIAM H. MASTERS, M.D.† Instructor in Obstetrics and Gynecology

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

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

SEYMOUR MONAT, M.D. 2 Instructor in 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

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

† 1948-49.

* 1949-50

‡ On leave of absence, March 16 to April 27, 1949.

‡ July 1 to December 31, 1948.

§ Effective January 1, 1949.
Students are given practical instruction in obstetrics and gynecology in the St. Louis Maternity Hospital, the Barnes Hospital, the University Clinics and the St. Louis City Hospital. The St. Louis Maternity provides approximately 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 2,000 admissions annually in the Barnes Hospital, 1,400 in St. Louis Maternity Hospital.
and 300 in the St. Louis City Hospital which are available for teaching purposes. Instruction in the care of ambulatory patients is carried out in the University Clinics where about 1,800 new patients are seen and 17,000 follow up visits are made annually.

SECOND YEAR

20. INTRODUCTION TO OBSTETRICS. Part of the course is Conjoint Medicine (see page 98).

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 has been made each case is reviewed with the student by a member of the staff. Old patients are also seen frequently and ample opportunity is provided for examination of prenatal patients. Students also attend special clinics which are held concurrently with the regular clinic. 61 hours.

42. OBSTETRICAL SERVICE. A second group of one-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
WILLIAM F. HARDY, M.D.
Associate Professor Emeritus 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 Clinical Ophthalmology
E. B. ALVIS, M.D. Instructor in Clinical Ophthalmology
DANIEL BISNO, M.D. Instructor in Clinical Ophthalmology
JAMES H. BRYAN, M.D. Instructor in Clinical Ophthalmology
J. C. CRAWFORD, M.D. Instructor in Clinical Ophthalmology
J. C. CRAWFORD, M.D. Instructor in Ophthalmology
ROBERT DEAN MATTIS, M.D. Instructor in Clinical Ophthalmology
WILLIAM MEINBERG, M.D. Instructor in Clinical Ophthalmology
BENJAMIN MILD, 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
MAX BALDRIDGE, M.D. Assistant in Ophthalmology
HAROLD BEASLEY, M.D. Assistant in Ophthalmology
RUTH S. FREEDMAN, M.D. Assistant in Ophthalmology
DAVID M. FREEMAN, M.D. Assistant in Ophthalmology
WILLIAM A. MOOR, A.B. Assistant in Ophthalmology
JOSEPH I. MORELAND, M.D. Assistant in Ophthalmology
GEORGE NOEL, M.D. Assistant in Ophthalmology
JAMES H. SCRUGGS, JR., M.D. Assistant in Ophthalmology
J. C. SLEIGHT, M.D. Assistant in Ophthalmology
ARTHUR W. STICKLE, JR., M.D. Assistant in Ophthalmology
GEORGE T. STINE, M.D. Assistant in Ophthalmology
RICHARD THOMAS, M.D. Assistant in Ophthalmology
STANLEY TRUHLSEN, M.D. Assistant in Ophthalmology
RICHARD A. WESTSMITH, M.D. Assistant in Ophthalmology
ARTHUR W. STICKLE, JR., M.D. Fellow in Ophthalmology

† 1948-49.
* 1949-50.
1 July 1, 1948 to April 30, 1949.
2 July 1, 1948 to February 3, 1950.
3 July 1, 1948 to September 30, 1949.
4 June 1, 1949 to June 30, 1950.
5 July 1 to November 30, 1948.
7 December 1, 1948 to June 30, 1950.
8 July 1 to August 31, 1948.
9 September 1, 1948 to September 30, 1949.
10 Effective October 1, 1949.
SECOND YEAR

OPHTHALMOLOGY. Lectures and demonstrations are given as a part of the course in Conjoint Medicine. 3 hours. (See page 98.)
(Drs. Lawrence Post, James, Scobee)

THIRD YEAR

30. OPHTHALMOLOGY. Twelve lectures are given in the third trimester.
(Drs. Lawrence Post, Scobee, P. Shahan)

FOURTH YEAR

40. CLINICAL OPHTHALMOLOGY. 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, Beisbarth, Hildreth, E. B. Alvis, Milder, Mattis)
OTOLARYNGOLOGY

THEODORE E. WALSH, M.R.C.S., L.R.C.P. Professor of Otolaryngology
HARRY W. LYMAN, M.D. Professor Emeritus of Clinical Otolaryngology
HALLOWELL DAVIS, M.D. Research Professor of Otolaryngology
ARTHUR W. PROETZ, M.D. Professor of Clinical Otolaryngology
ARTHUR M. ALDEN, M.D. Associate Professor of Clinical Otolaryngology
JAMES B. COSTEN, M.D. Associate Professor of Clinical Otolaryngology
WALTER F. 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
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. Assistant in Otolaryngology
I. D. KELLEY, M.D.* Assistant in Otolaryngology
BEN H. SENTURIA, M.D. Assistant in Otolaryngology
W. T. K. BRYAN, M.D. Instructor in Clinical Otolaryngology
J. S. RIESCO, M.D.* Fellow in Otolaryngology
M. D. PROETZ, M.D.* Assistant in Otolaryngology

† 1948-49.
* 1949-50.
1 January 1 to June 30, 1950.
2 January 1 to June 30, 1949.
3 July 1, 1948 to December 31, 1948.
4 July 1 to December 31, 1948.
5 July 1, 1948 to February 28, 1949.
C. FERNANDEZ, M.D.*......Kellogg Foundation Fellow in Otolaryngology
HUNG CHUAN SUN, M.D.†......Fellow in Otolaryngology

SECOND YEAR

Otolaryngologic and Physical Diagnosis. The class is divided into small groups with individual instructors for a total of six hours for instruction in the methods of Otolaryngological diagnosis and the use of instruments peculiar to this field. Part of Conjoint Medicine (see page 98).

FOURTH YEAR

40. Otolaryngology. Clinical instruction is given to sections of six for twelve hours a week for three weeks. 36 hours. (Dr. Kelley)

ELECTIVE COURSE

50. Clerkship in Otolaryngology. Two students may serve as externes 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)

† 1948-49.
* 1949-50.
† September 1, 1948 to August 31, 1949.
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

Sam Gray, M.D.
Associate Professor of Pathology

Margaret G. Smith, M.D.
Associate Professor of Pathology

Barnet M. Levy, D.D.S.
Associate in Pathology

Parker Beamer, Ph.D., M.D.
Assistant Professor of Pathology

Gustave Dammin, M.D.
Assistant Professor of Pathology

John A. Saxton, Jr., M.D.
Assistant Professor of Pathology

Frank L. Beckel, M.D.
instructor in Pathology

Wilson G. Brown, M.D.
instructor in Pathology

Frank J. Dixon, M.D.
instructor in Pathology

John B. Frenich, M.D.
instructor in Pathology

Richard Johnson, M.D.
instructor in Pathology

Milton Kannerstein, M.D.
instructor in Pathology

Franz Leidler, M.D.
instructor in Pathology

David Smith, M.D.
instructor in Pathology

Martin Silberberg, M.D.
instructor in Pathology

Ruth Silberberg, M.D.
instructor in Pathology

Thomas Young, M.D.
instructor in Pathology

August C. Arminini, Jr., M.D.
instructor in Pathology

Bruce F. Avery, M.D.
instructor in Pathology

Betty Carlin, M.D.
research assistant in Pathology

Margaret Carter, M.D.
instructor in Pathology

Leslie S. Chase, M.D.
instructor in Pathology

Ansel Earp, Jr., M.D.
instructor in Pathology

Jack Gregory, M.D.
instructor in Pathology

James C. Hawkins, M.D.
instructor in Pathology

Menard Ihnen, M.D.
instructor in Pathology

Franz Leidler, M.D.
instructor in Pathology

Robert O. Life, M.D.
instructor in Pathology

Marvin D. Orrahood, M.D.
instructor in Pathology

Clarence Pickard, M.D.
instructor in Pathology

Wallace Rindskopf, M.D.
instructor in Pathology

James C. Roberts, M.D.
instructor in Pathology

Dale M. Schulz, M.D.
instructor in Pathology

William Snoddy, M.D.
instructor in Pathology

Victor E. Tindermolt, M.S.
research assistant in Pathology

Ellis J. Van Slyck, M.D.
instructor in Pathology

Calvin J. Wegner, M.D.
instructor in Pathology

Thomas Young, M.D.
instructor in Pathology

Thomas B. Pote, M.D.
lecturer emeritus in Pathology

F. Brion, M.D.
fellow in Pathology

Boyd K. Black, M.D.
fellow in Pathology (United States Navy)

Margaret Carter, M.D.
fellow in Pathology

Raymond F. Hain, M.D.
fellow in Pathology (United States Public Health Service)

† 1948-49.
* 1949-50.
1 Effective August 1, 1948.
2 Effective September 1, 1948.
3 Effective July 22, 1948.
4 Effective July 1, 1948 to March 30, 1949.
5 August 1, 1948 to September 15, 1949.
6 October 1, 1948 to June 30, 1949.
THE SCHOOL OF MEDICINE

E. M. NADEL, M.D.
Fellow in Pathology (United States Public Health Service)

MANUEL D. PENAS, M.D.†
Fellow in Pathology of the University of Santo Tomas, Philippines

F. G. STEPHENS, M.D.¹ Fellow in Pathology (United States Army)

ANTONIO VILLASANA, M.D.² Fellow in Pathology

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

Properly qualified students may register in the School of Medicine or Graduate School of Arts and Sciences for any of the courses. Pathology 20 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), Jewish Hospital (Dr. Gray), St. Louis City Hospital (Drs. Saxton, M. Silberberg, R. Silberberg, Leidler and Rindskopf), St. Louis County Hospital (Dr. Brown), and Veterans Administration Hospital at Jefferson Barracks (Dr. Kannerstein). 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. Levy
- Dermatology ................................ Dr. Frerichs
- Gerontology .............................. Dr. Saxton
- Infectious Diseases ...................... Dr. M. G. Smith
- Medicolegal Pathology .................. Dr. Brown
- 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, Beamer, D. Smith, Dixon, Beckel, and Staff)

† 1948-49.
¹ January 1 to December 31, 1949.
² July 1, 1948 to January 31, 1949.
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 Beamer)

ELECTIVE COURSES

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

(Drs. Moore, Margaret Smith, Dammin, Dixon, Beckel, D. Smith and Beamer)

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

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

(Drs. Moore, Margaret Smith)

53 (597). Seminar in Microscopic Pathology. The microscopic sections from each autopsy are presented by the prosector at a conference. Pertinent articles from the current literature are presented and discussed as they apply to the cases under consideration.

(Drs. Moore, Margaret Smith)

54 (598). Seminar in Theoretical and Experimental Pathology. Topics in General Pathology are selected and assigned to members of the junior staff and to qualified students for review. Once a week.

56. 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, Beamer, 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, Beamer, and D. Smith)
THE EDWARD MALLINCKRODT DEPARTMENT OF PEDIATRICS

ALEXIS F. HARTMANN, M.D. Professor of Pediatrics
JEAN V. COOKE, M.D. Professor of Pediatrics
BORDEN SMITH VEEPER, M.D. Professor of Clinical Pediatrics
ADRIEN BLEYER, M.D.* Associate Professor Emeritus of Clinical Pediatrics

HUGH McCulloch, M.D.1 Associate Professor of Clinical Pediatrics
MEIR J. CARSON, M.D. Assistant Professor of Pediatrics
GILBERT B. Forbes, M.D. Assistant Professor of Pediatrics
JOSEPH JAUDON, M.D. Assistant Professor of Clinical 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
ADRIEN BLEYER, M.D.* Instructor in Clinical Pediatrics
DOLORESE CASE, M.D.* Instructor in Pediatrics
ELIZABETH BRYAN DEISHER, M.D.2 Instructor in Pediatrics
MAX DEUTCH, M.D. Instructor in Clinical Pediatrics
RUTH GERSTUNG, B.A. Instructor in Bacteriology in Pediatrics
DAVID GOLDRING, M.D.3 Instructor in Pediatrics
JAMES GOODFRIEND, M.D.* Instructor in Pediatrics
STANLEY HARRISON, M.D. Instructor in Clinical Pediatrics
FREDERICK A. JACOBS, M.D. Instructor in Clinical Pediatrics
DOROTHY JOHNSON, M.D. Instructor in Clinical Pediatrics
PAUL E. KOBITSCHER, M.D. Instructor in Clinical Pediatrics
SOL LONDE, M.D. Instructor in Clinical Pediatrics
MAURICE LONSWAY, 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
DONALD THURSTON, M.D. Instructor in Pediatrics
H. EWING WACHTER, M.D. Instructor in Clinical Pediatrics
JOHN HOLLAND* Dentist in the Department of Pediatrics
SIDNEY JAYNES, D.M.D.* Dentist in the Department of Pediatrics
HELEN AFF, M.D. Assistant in Clinical Pediatrics
JOSEPH A. BAUER, M.D.* Assistant in Clinical Pediatrics
C. READ BOLES, M.D.* Assistant in Pediatrics
C. READ BOLES, M.D.* Assistant in Clinical Pediatrics
MARTIN CALDNEY, M.D. Assistant in Clinical Pediatrics
ROSELEEN COHENBERG, M.D.* Assistant in Pediatrics
MARVIN CORBELATH, M.D.* Assistant in Pediatrics
JAMES CRAVENS, M.D.* Assistant in Pediatrics
WILLIAM DAESCHNER, M.D.* Assistant in Pediatrics
OLIVER F. DEEN, JR., M.D. Assistant in Pediatrics
ROBERT DEISHER, M.D.* Assistant in Pediatrics
ROBERT GARNER, M.D.* Assistant in Pediatrics
SAMUEL GOLLUB, M.D. Assistant in Clinical Pediatrics
LEO GOWEN, M.D. Assistant in Clinical Pediatrics

1 1948-49.
2 1949-50.
3 Resigned December 31, 1948.
4 January 1 to June 30, 1949.
5 Effective January 1, 1948.
6 Deceased July 5, 1948.
7 July 1 to December 31, 1948.
8 July 1 to September 30, 1948.
9 February 1 to June 30, 1949.
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 instruction 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 98. (Drs. Forbes, E. Deisher)

THIRD YEAR

30. Thirty-six lectures and demonstrations for the whole class. (Drs. Hartmann, Cooke)
40. **Pediatric Clinic.** Weekly amphitheatre demonstrations and discussions of selected cases from the hospital, for the whole class. 36 hours. (Drs. Hartmann, Cooke, Carson, Thurston, Klingberg, Forbes, Goldring, E. Deisher)

41. **Clinical and Pathological Conferences.** Weekly conferences, following clinical conferences. See also Pathology 40.

42. **Clinical Clerkships.** For essentially the entire day, beginning at 9:00 a.m., one-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 luetic clinic; (6) work in special metabolic clinic conducted in the hospital proper on Saturday morning; (7) clinical conferences at the St. Louis City Hospital; (8) special demonstrations in common nursing procedures, which include the preparation of artificial formulae. (Drs. Hartmann, Cooke, Carson, Forbes, E. Deischer, Goldring, Klingberg, Thurston)
THE EDWARD MALLINCKRODT DEPARTMENT OF PHARMACOLOGY

OLIVER H. LOWRY, Ph.D., M.D. .................. Professor of Pharmacology
HELEN TREDWAY GRAHAM, Ph.D. ................ Associate Professor of Pharmacology
F. EDMUND HUNTER, JR., Ph.D. ............... Assistant Professor of Pharmacology
MAURICE E. KRAHL, Ph.D. ................... Assistant Professor of Pharmacology
MORRIS FRIEDKIN, Ph.D. ..................... Instructor in Pharmacology
ANITA ZORZOLI, Ph.D. ......................... Research Associate in Pharmacology
ALONZA L. FARR, M.D. ......................... Research Assistant in Pharmacology
ELI ROBINS, M.D. ............................ United States Public Health Service Fellow in Pharmacology

JACK L. STROMINGER, M.D. .................. American College of Physicians Research Fellow in Pharmacology

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, Hunter, Krahl)

ELECTIVE COURSES

50 (580). Advanced Work. This is arranged to suit individual needs. Opportunity is offered for the extensive study of any special group of drugs desired. In addition students may elect work in toxicology. Hours and details of the work to be arranged.

51 (590). Research. The facilities of the laboratory are available to those who wish to carry on original investigation, on problems of their own or on those the department is prepared to suggest.

* 1948-49.
* 1949-50.
1 October 1, 1948 to June 30, 1949.
2 Effective September 1, 1949.
3 Effective October 1, 1949.
PHYSIOLOGY

HARVEY L. WHITE, M.D...............................Professor of Physiology
JOSEPH ERLANGER, M.D...............................Professor Emeritus of Physiology
HALLOWELL DAVIS, M.D...............................Professor of Physiology
ARTHUR S. GILSON, JR., PH.D...........................Associate Professor of Physiology
GORDON M. SCHOEPFLE, PH.D...........................Assistant Professor of Physiology
WILLIAM SLEATOR, JR., PH.D.1

       Assistant Professor of Biophysics in Physiology
SHEPPARD M. WALKER, PH.D...........................Assistant Professor of Physiology
ALBERT ROOS, M.D...............................Instructor in Physiology
ADOLPH SURTSHIN, M.D.2...............................Instructor in Physiology
THEODORE ROSENTHAL, PH.D.3...........................Research Associate in Physiology
WALTER A. QUEBEOUX, JR., PH.D.4........................Research Assistant in Physiology
DORIS ROLF, A.B...............................Research Assistant in Physiology

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, Walker, Roos)

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 then 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.

1 Effective November 1, 1948.
2 Effective February 1, 1949.
3 Effective March 1, 1949.
4 Effective November 8, 1948.
Instructor 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 jurisdiction of the Student Health Service which is organized within the department, acquaints the student with the nature of health and the techniques available for health maintenance. The Health Service throughout the four years attempts to teach by precept those aspects of preventive medicine applicable to the office practice of medicine. 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, and, in cooperation with the Department of Pathology, an attempt to call the students' attention to certain principles in prevention and to demonstrate the importance of social, economic and environmental factors in disease. In the third year the 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 per week, 12 hours.

(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 per week for 12 weeks, 12 hours.

(Dr. Wade and Staff)

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.

21. PREVENTIVE MEDICINE. This is a part of course 20 of the Department of Pathology, in which students assist in and report on autopsies assigned to groups of four. These four students meet with members of the staff of the Department of Preventive Medicine and Public Health prior to their report for a discussion of the preventive aspects of the disease under study and of the social, economic and environmental factors which must be taken into account in studying patients. An attempt is made to stimulate the students to consider what might have been done to prevent the death of the patient, what might have been done to prevent his final illness, what measures might have been utilized during his lifetime that would have prolonged it. Second and third trimesters, 2 hours per week.

(Dr. Shank and Miss Brazell, in cooperation with Dr. Beamer and the staff of the Department of Pathology)

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 two 2½ 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

1 Department of Mathematics.
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, Saunders, Scott, Wade and Miss Brazell; Drs. Cooke, Flance, Kenamore, and Scheff, Mr. Lasater and Mr. Wheeler)

(b) Medical Conferences. 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 per week.

(Drs. Shobe and Starr and Miss Brazell)

(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, a tuberculosis diagnostic clinic and a pneumothorax 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. Saunders, Domke and Lininger, 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, Saunders, Hanchett, Maxwell, Roberts, Skinner, J. Smith)

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 White)
THE SCHOOL OF MEDICINE

RADIOLOGY

SHERWOOD MOORE, M.D.† Professor of Radiology
HUGH WILSON, M.D.‡ Professor of Radiology
SHERWOOD MOORE, M.D.§ Professor Emeritus of Radiology
A. N. ARNISON, M.D. Associate Professor of Clinical Radiology
WENDELL G. SCOTT, M.D. Associate Professor of Clinical Radiology
MARTIN KAMEN, PH.D. Associate Professor of Chemistry and Chemist to the Mallinckrodt Institute of Radiology
EDWARD H. REINHARD, M.D.‡ Assistant Professor of Clinical Radiology
ETHEL RONZONI-BISHOP, PH.D. Assistant Professor of Biological Chemistry in Radiology

OTTO H. GRUNOW, M.D. Instructor in Radiology
DONALD S. BOTTOM, M.D. Instructor in Clinical Radiology
RICHARD MAXWELL, M.D. Instructor in Clinical Radiology
WILLIAM B. SEAMEN, M.D. Instructor in Radiology
OSCAR C. ZINK, M.D. Instructor in Clinical Radiology
ARTHUR L. HUGHES, D.SC. Consulting Physicist to the Mallinckrodt Institute of Radiology
MILDRED TROTTER, PH.D. Consultant in Anatomy
E. G. ANDERSON, M.D.† Assistant in Radiology
DALLAS ANTHONY, M.D. Assistant in Radiology
WESLEY FEE, M.D.‡ Assistant in Radiology
HOWARD GEST† Research Assistant in Radiology
THOMAS KEELY, M.D.§ Assistant in Radiology
STUART LIPPERT, M.D.‡ Assistant in Radiology
JAMES LITTLE, M.D.‡ Assistant in Radiology
JOSEPH NORTON, M.D.‡ Assistant in Radiology
FRANCIS E. O’NEILL, M.D.³ Assistant in Radiology
WAYNE A. SIMRIL, M.D. Assistant in Radiology
A. JACK STACY, M.D.‡ Assistant in Radiology
G. C. ZEDLER, M.D.‡ Assistant in Radiology

THIRD YEAR

30. Twelve lectures illustrated with slides, first trimester. Designed to acquaint the student with the general principles of radiological interpretation. The course covers the major divisions of radiology and includes an introduction to therapy. (Drs. Moore, Scott, and Grunow)

FOURTH YEAR

40. RADIOLOGY CONFERENCES. One-eighth of the class per month for twelve conferences. The course consists of an enlargement of the material introduced in the third year with emphasis on personal interpretation of films and the choice of patients for x-ray therapy. (Drs. Moore, Scott, Bottom, and Grunow)

† 1948-49.
‡ 1948-50.
§ 1949-50.
¶ July 1 to October 31, 1948.
|| July 1 to December 31, 1948.
--- December 1, 1948 to September 30, 1949.
--- July 1, 1948 to January 31, 1949.
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. All trimesters.

51. **Basic Course in Diagnostic and Therapeutic Radiology for Post-Graduates and Veterans.** One-hour lecture and demonstration each week throughout school year. (Dr. Scott and Resident Staff)

52. **Basic Course in Physics of Radiation and Clinical Effects of Treatment.** Series of twelve lectures and demonstrations. Presented once each year for fellows, interns, and specially selected students. (Drs. Arneson, Kamen, and Reinhard)
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
WILLARD BARTLETT, M.D. .................. Professor Emeritus of Clinical Surgery
VILRAY P. BLAIR, M.D. .................. Professor Emeritus of Clinical Surgery
ERNEST SACHS, M.D. .................. Professor Emeritus of Clinical Neurological Surgery

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 Orthopedic 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. CUPHER, M.D. ........ Associate Professor of Clinical Surgery
LEONARD T. FURLow, M.D. ........ Associate Professor of Clinical Orthopedic Surgery

THEODORE E. WEICHSERBAUM, 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
JUSTIN J. CORDONNIER, M.D. ........ Assistant Professor of Clinical Genitourinary Surgery
CLARENCE H. CREGO, JR., M.D. ........ Assistant Professor of Clinical Orthopedic Surgery
FRANK H. EWERTHARDT, M.D. ........ Assistant Professor Emeritus of Physical Therapeutics
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
JOHN F. PATTON, M.D. ........ Assistant Professor of Clinical Surgery

J. G. PROBSTSTEIN, M.D. ........ Assistant Professor of Clinical Surgery
FRANKLIN E. WALTON, M.D. ........ Assistant Professor of Clinical Surgery
VILRAY P. BLAIR, JR., M.D. ....... Instructor in Clinical Orthopedic Surgery
HENRY S. BROOKES, JR., M.D. ....... Instructor in Clinical Surgery
CYRIL J. COSTELLO, M.D. ........ Instructor in Clinical Surgery
JAMES O. ELAM, M.D. ....... Instructor in Anesthesiology
MINOT P. FRYER, M.D. ........ Instructor in Clinical Surgery
HEINZ HAFNNER, M.D. ........ Instructor in Clinical Surgery
OSCAR P. HAMPTON, M.D. ........ Instructor in Clinical Orthopedic Surgery
EDWARD C. HOLSCHEE, M.D. ........ Instructor in Clinical Orthopedic Surgery
STANLEY M. LEYDIG, M.D. ........ Instructor in Clinical Orthopedic Surgery
CARL E. LISCHER, M.D. ........ Instructor in Clinical Surgery
JOHN JAMES MODLIN, M.D. ........ Instructor in Clinical Surgery

1 Deceased October 15, 1948.
2 Effective January 1, 1949.
3 July 1 to December 31, 1948.
RICHARD T. ODELL, M.D. Instructor in Orthopedic Surgery
FRED C. REYNOLDS, M.D. Instructor in Clinical Orthopedic Surgery
MAURICE E. ROCHE, M.D. Instructor in Clinical Orthopedic Surgery
ALBERT ROOS, M.D. Instructor in Surgery
WILLIAM F. ROSE, M.D. Instructor in Clinical Surgery
GEORGE E. ROULHAC, M.D. Instructor in Neurological Surgery
LEO A. SACHAR, M.D. Instructor in Clinical Surgery
J. HOY SANFORD, M.D. Instructor in Clinical Genitourinary Surgery
CARL A. WATTENBERG, M.D. Assistant in Clinical Genitourinary Surgery
JERRY H. ALLEN, JR., M.D. Assistant in Surgery
CARL J. ALTIAUS, M.D. Assistant in Clinical Genitourinary Surgery
ROBERT ANSCHUETZ, M.D. Assistant in Surgery
J. W. BASSETT, M.D. Assistant in Surgery
J. BYRON BEARE, M.D. Assistant in Clinical Genitourinary Surgery
RALPH BERG, M.D. Assistant in Surgery
HENRY W. BOFF, M.D. Assistant in Surgery
HARRY E. BUTCHER, M.D. Assistant in Surgery
W. R. CATE, M.D. Assistant in Surgery
JAMES T. CHAMNESS, M.D. Assistant in Surgery
HARRY CUTLER, M.D. Assistant in Clinical Genitourinary Surgery
ALFRED M. DECKER, JR., M.D. Assistant in Surgery
RUTH ELIZABETH DENNIS, B.A. Research Assistant in Surgery
SANFORD R. DIETRICH, M.D. Assistant in Surgery
BEN EISEMAN, M.D. Assistant in Surgery
HARRY FISHER, M.D. Assistant in Surgery
TODD H. FORBES, M.D. Assistant in Clinical Genitourinary Surgery
BERNARD ROEWS, M.D. Assistant in Surgery
GERHARD E. GRUENFELD, M.D. Assistant in Surgery
ANDY HALL, JR., M.D. Assistant in Clinical Genitourinary Surgery
BOYCE HANKS, M.D. Assistant in Surgery
GEORGE L. HAWKINS, M.D. Assistant in Neurological Surgery
CARL J. HEIDTZ, M.D. Assistant in Clinical Surgery
THOMAS R. HINCHLEY, M.D. Assistant in Clinical Surgery
EARL P. HOLT, JR., M.D. Assistant in Surgery
WILLIAM E. HUNT, M.D. Assistant in Surgery
PAUL D. KELLER, M.D. Assistant in Surgery
FREDERICK W. KLINGE, M.D. Assistant in Surgery
JULES H. KOPP, M.D. Assistant in Clinical Genitourinary Surgery
GORDON S. LETTERMAN, M.D. Assistant in Clinical Surgery
CHARLES BARBER MUeller, M.D. Assistant in Surgery
JOHN F. NEVILLE, JR., M.D. Assistant in Surgery
DAVID R. OLIVER, M.D. Assistant in Surgery
LAWRENCE W. O’NEAL, M.D. Assistant in Surgery
JAMES G. OWEN, M.D. Assistant in Surgery
JOSEPH C. PEDEN, M.D. Assistant in Surgery
RICHARD M. PETERS, M.D. Assistant in Surgery
MATHER PFEIFFENBERGER, M.D. Assistant in Surgery
ROBERT H. RAMSEY, M.D. Assistant in Surgery
MARVIN G. RAPER, M.D. Assistant in Surgery

† 1948-49.  
‡ 1949-50.  
* July 1, 1948 to March 31, 1949 and January 1 to June 30, 1950.  
# Effective January 1, 1949.  
% July 1 to September 30, 1948.  
& May 1, 1949 to June 30, 1950.  
* Effective December 1, 1948.  
* July 1 to October 31, 1948.  
& July 1, 1948 to January 31, 1949.  
On leave of absence.
THE SCHOOL OF MEDICINE

Robert K. Royce, M.D.†
Leo A. Sachar, M.D.*
Sam F. Schneider, M.D.
Henry Schwartz II, M.D.
Harrison H. Shoulders, M.D.*
Hugh E. Stephenson, Jr., M.D.*
Harry L. Thieme, M.D.
Alfred A. Thurelow, Jr., M.D.*
D. J. Verda, M.D.
William Wall, M.D.*
Watts R. Webb, M.D.
Gerald R. Winokur, M.D.*
Richard Yore, M.D.*
Harvey R. Bernard, M.D.*
Edward J. Bishop, M.D.*
Harrison Black, M.D.
Lewis H. Bosher, Jr., M.D.
M. Richard Carlin, M.D.*
Wen-Ying Chao, M.D.
James T. Chamness, M.D.*
Carl Chiem, M.D.
William F. Collins, M.D.*
Samuel S. Daun, M.D.*
Alfred M. Decker, M.D.*

Exchange Fellow in Surgery with the University of Toronto

McCarthy DeMere, M.D.10
Johann L. Ehrenhaft, M.D.5
James O. Elam, M.D.8
Harry Fischer, M.D.9
Lee T. Ford, M.D.3
Alex Harell, M.D.11
Fleming B. Harper, M.D.4
Thomas R. Hinchey, M.D.*
Earl P. Holt, M.D.*
Hal B. Jennings, M.D.*
D. Cooper Johnston, M.D.*
E. Leonard Kemler, M.D.*
Robert B. King, M.D.*
Richard A. Lemmer, M.D.*
Louis T. Litzow, M.D.12
James O. Lottes, M.D.*
C. Barree Mueller, M.D.*
Darrell D. Munro, M.D.*

Exchange Fellow in Surgery with University of Toronto

Thomas G. Otto, M.D.*
Herbert E. Pederson, M.D.*

† 1948-49.
* 1949-50.
†1 July 1, 1948 to January 31, 1949.
*2 July 1, 1948 to April 30, 1949.
*3 July 1 to November 10, 1948.
*4 July 1 to December 31, 1948.
*5 August 31, 1948 to May 1, 1949.
*6 Effective August 31, 1948.
*7 Effective September 1, 1948.
*8 Effective January 1, 1949.
*9 April 1 to December 31, 1948.
*10 Resigned December 31, 1948.
*11 July 1 to December 31, 1948.
*12 Resigned December 31, 1948.
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 general surgery and the major specialties, and the broad general principles of pathology, pathologic physiology, diagnosis and treatment are extensively discussed. At the St. Louis City Hospital special attention is given to the study of trauma and acute surgical emergencies. Students are given the opportunity of seeing all operations and are encouraged to participate as assistants in the operations on patients assigned to them. Special instruction in history writing, in the examination of the patient and in various diagnostic and therapeutic techniques is given to small groups of students by the resident and assistant resident house officers. These small groups are in the nature of tutorial classes.

During the junior year also the students attend a course in surgical pathology, and a weekly surgical clinic lasting throughout the year. 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. Two hours weekly during the third 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 dem-
onstrated 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 equally 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 on the cases studied by
them and are required 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. During the surgery clerkship a coordinated series of
lectures and demonstrations on fractures are given to the entire clerk-
ship group each Wednesday morning at City Hospital. The fundamentals

† 1948-49.
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. For one-third of a trimester ten students are assigned to the general surgery outpatient services of the Washington University Clinics and the Homer G. Phillips Hospital. Special attention is directed toward the diagnosis and treatment of the common surgical conditions. The students have an opportunity to see their cases first and to make the initial examination and diagnosis, they then follow their own cases through subsequent stages of diagnosis and treatment. They assist in carrying out minor surgical procedures. (Various members of the staff)

42. ORTHOPEDICS. Groups of five students are assigned to work in the Orthopedic outclinic four mornings a week for two weeks. In addition, the entire group of ten students attend a conference in orthopedic surgery at the Shriners' Hospital for Crippled Children two hours a week for four weeks. 20 hours. (Drs. Key, Crego and Staff)

43. GENITOURINARY DISEASES. Special exercises and conferences in genitourinary diseases are given to groups of five students two hours a day, four days a week, for two weeks. Some of the time is spent in the Outpatient Department and the rest of it in the hospital. Special emphasis is placed on simple diagnostic procedures, catheterization and the evaluation of abnormal findings in the examination of patients. 16 hours. (Dr. Rose and Staff)

44. PROCTOLOGY. Demonstration of various lesions about the rectum and anus are given in the Outpatient Department to groups of five students. 4 hours. (Dr. Brookes)

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)

(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. CROWDUS, LL.B. .................. Lecturer in Medical Jurisprudence

MEDICAL JURISPRUDENCE. A course given in the fourth year embracing medical evidence and testimony, expert testimony; dying declarations; rights of medical witnesses; establishing identity from living and dead bodies, sudden death from natural causes and by violence; criminal acts determined by medical knowledge; the legal relation of physician to patients and the public; insanity, and malpractice. 12 hours.

MILITARY SCIENCE AND TACTICS

THEODORE L. HARTRIDGE, 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.

The R.O.T.C. (Medical) Unit has been reestablished by a franchise agreement between the School of Medicine and the Surgeon General after the termination of the A.S.T.P unit activities in 1946.

The purpose of the course is to lay the foundation of intelligent citizenship and provide military and technical medical subjects in an interesting fashion in an effort to prepare students as military medical leaders in our national defense.

The course is divided into two (2) parts: the Elementary and Advanced Courses, each of two years duration. Credit is given for all previous military service as a substitute for all or any part of the Elementary Course which is required for admission into the Advanced Course. The allowances received by members of the Advanced Course are in addition to those received through the G.I. Bill of Rights. The student must be physically qualified, a citizen of the United States and accepted as a regularly enrolled student by the institution.

One summer camp training period of 6 weeks with pay is required for completion of the Advanced Course and can be accomplished by the student during any of the three (3) summers available. Students are made 1st Lieutenants in the Officers' Reserve Corps upon graduation but are not eligible for call to active military duty.

The conduct of the courses is carried out by the use of visual training aids, training films, applicatory exercises, Army Institute of Pathology Case Studies and lectures.
DIVISION OF POSTGRADUATE STUDIES

MERL J. CARSON, M.D. . . . . . . . . . . . . . . . . . . . Assistant Dean

Washington University does not have a separate Graduate School of Medicine, but postgraduate educational programs are conducted by the School of Medicine and graduate courses leading to a 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, Mo.

GRADUATE COURSE IN OPHTHALMOLOGY

RICHARD G. SCOBEE, M.D. . . . . . . . . . . . . . . . . . . . . . . . . . . . Director

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

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

TUITION . . . . $600.00 (1949-50)
800.00 (1950-51)

GRADUATE COURSE IN OTOLARYNGOLOGY

THEODORE E. WALSH, M.D. . . . . . . . . . . . . . . . . . . . . . . . . . . . Director

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

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

TUITION . . . . $800.00

GRADUATE COURSE IN PEDIATRICS

ALEXIS F. HARTMANN, M.D. . . . . . . . . . . . . . . . . . . . . . . . . . . . Director

A nine months' course, consisting of lectures, demonstrations, and clinical work with both in-patients and out-patients.

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

TUITION . . . . $500.00 (1949-50)
$700.00 (1950-51)
GRADUATE COURSE IN APPLIED MEDICAL SCIENCE

An eight to twelve months' course for those who desire more extensive training in the medical sciences than is given in the usual residency. The program consists of required minor courses in pathology, clinical pathology, radiology, physical medicine and selected clinical subjects, a required major course or research in a pre-clinical department, and elective courses in clinical departments. The student has no clinical responsibilities for patients. Residents in the hospitals of metropolitan St. Louis may register for selected courses. Students taking anatomy are charged a cadaver fee of $100 for an entire body.

Tuition .... $75 per month

REFRESHER COURSE IN OPHTHALMOLOGY

LAWRENCE T. POST, M.D. . . . . . . . . . . . . . . . . . . . . . Director

A four weeks' course consisting of lectures and clinical demonstrations. Applicants must be graduates of an approved medical school and licensed to practice medicine.

Tuition .... $150.00

REFRESHER COURSE IN OBSTETRICS AND GYNECOLOGY

WILLARD M. ALLEN, M.D. . . . . . . . . . . . . . . . . . . . . . Director

A four weeks' course consisting of lectures and clinical demonstrations. Applicants must be graduates of an approved medical school and licensed to practice medicine.

Tuition .... $100.00

REFRESHER COURSE IN PEDIATRICS

ALEXIS F. HARTMANN, M.D. . . . . . . . . . . . . . . . . . . . . Director

An eight weeks' course, consisting of lectures, clinical demonstrations and ward rounds. Applicants must be graduates of an approved medical school.

Tuition .... $100.00 for each four week period

or

.... $200.00 for the entire eight weeks

JOINT REFRESHER COURSES IN CLINICAL SPECIALTIES

Joint refresher courses for one to eight weeks in the clinical subjects are offered once or twice a year, usually in April and October.

Tuition .... $40.00 per week
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.
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**

**Chairman**

HENRY G. SCHWARTZ  

GEORGE H. BISHOP  

JAMES L. O’LEARY  

**Advisory Member**  

JOSEPH ERLANGER  

**Members**

GEORGE H. BISHOP  

HALLOWELL DAVIS  

EDWIN F. GILDEA  

ARTHUR GILSON  

HELEN T. GRAHAM  

PETER HEINBECKER  

SEDGWICK MEAD  

JAMES L. O’LEARY  

HENRY G. SCHWARTZ  

HARVEY L. WHITE  

**Associates**

ETHEL RONZONI-BISHOP  

ARCHIE D. CARR  

LEONARD T. FURLOW  

JOSEPH J. GITT  

ANDREW B. JONES  

IRWIN LEVY  

GEORGE E. ROULHAC  

GEORGE SASLOW  

GORDON M. SCHOEPFLE  

DAVID E. SMITH  

MARGARET SMITH  

LOUIS TUREEN  

SHEPPARD M. WALKER  

SAMUEL WARSON  

**Assistants**

SAMUEL A. TRUPANT  

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**

Chairman

ESBEN KIRK  

ROBERT A. MOORE  

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

WILLIAM B. KOUNTZ ........................................... Director of Clinical Services
ESBEN KIRK .................................................. Director of Research
PHILIP ACKERMAN ............................................. Research Assistant
MARGARET CHIEFFI .......................................... Research Assistant
LILLI HOFSTATTER* ........................................... Research Assistant
CLETUS KROG .................................................. Research Assistant
SVEN A. KVORNING1 ........................................ Fellow
E. PRAETORIUS* ............................................... Fellow

DIVISION OF TUMOR SERVICES

The Division of Tumor Services integrates the teaching in all departments as it relates to the field of cancer and promotes research in this field.

EXECUTIVE COMMITTEE

EDWARD REINHARD ........................................... Internal Medicine
A. NORMAN ARNESON ........................................ Obstetrics and Gynecology
RICHARD SCOBEE ............................................ Ophthalmology
G. O'NEIL PROUD ............................................ Otolaryngology
LAUREN ACKERMAN ......................................... Pathology
SHERWOOD MOORE .......................................... Radiology
CHARLES ECKERT, CHAIRMAN ............................... Surgery

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. WARBON, M.D. ........................................... Director
DOROTHY CASE, M.D. ......................................... Assistant Director
ALEX KAPLAN, M.D. .......................................... Consultant
FELICE EMMER, M.D. ........................................ Consultant
DONALD MELTZER, M.D. .................................... Fellow in Child Psychiatry
SAUL ROSENZWEIG, PH.D. ................................. Chief Psychologist
ESTHER LEE MIRMOW ....................................... Psychological Assistant
BETTY M. CALDWELL ........................................ Psychologist
LOYCE BONNER ................................................ Psychiatric Social Worker
MARGUERITE CANNON ....................................... Psychiatric Social Worker

* 1949-50.
1July 1, 1948 to January 31, 1949.
ASSOCIATED INSTITUTIONS

The School of Medicine and other schools and colleges of the University have working agreements with several institutions which provide educational opportunities in the health field at both the undergraduate and graduate level.

CENTRAL INSTITUTE FOR THE DEAF

The Central Institute for the Deaf founded by Dr. Max Goldstein is an institution for the instruction of the deaf and speech defectives, for the training of teachers, and for research in the causes and treatment of deafness. For further information write the Director, Central Institute for the Deaf, 818 South Kingshighway, Saint Louis 10, Missouri.

Administrative Officers for the Central Institute for the Deaf

HELEN S. LANE, PH.D. . . . . . Principal of Central Institute
S. RICHARD SILVERMAN, PH.D. . Registrar, Teachers Training College

Staff on the Faculty of the School of Medicine

HALLOWELL DAVIS, M.D. . . Research Professor of Otolaryngology
and Associate Professor of Physiology
S. RICHARD SILVERMAN, PH.D. . . . . Lecturer in Audiology

JEFFERSON BARRACKS VETERANS HOSPITAL

Under the hospital program of the Veterans Administration, Washington University School of Medicine and St. Louis University School of Medicine have joint responsibility for the professional care of patients in the Jefferson Barracks Veterans Hospital. The Dean’s Committee with representatives from the two schools is in direct charge of the educational program.

Administrative Officers for the Veterans Administration

WALTER A. GERMAN . . . . . . . . . . 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
JOSEPH PEDEN
EDWARD T. FOOTE, S.J.
JOHN STEWART
THE SCHOOL OF MEDICINE

Staff of the Hospital from Washington University

Consultants

LAUREN V. ACKERMAN, Oncology
A. NORMAN ARNESON, Radiation Therapy
EUGENE BRICKER, General Surgery
THOMAS BURFORD, Thoracic Surgery
LOUIS T. BYARS, Plastic Surgery
ADOLPH H. CONRAD, JR., Dermatology
CHARLES H. EYERMANN, Allergy
L. T. FURLOW, Neurological Surgery

JOSEPH GITT, Neurology
FREDERICK JOSTES, Orthopedic Surgery
SEDGWICK MEAD, Physical Medicine
JAMES L. O'LEARY, Neurology
PAUL PREISLER, Biological Chemistry
VAL B. SATTERFIELD, Neuropsychiatry
ROBERT E. VOTAW, Otolaryngology
HARVEY L. WHITE, Physiology
GEORGE J. L. WULFF, JR., Obstetrics and Gynecology

Attending Physicians

ROBERT W. BARTLETT, General Surgery
PARKER BEAMER, Pathology
WILSON BROWN, Pathology
JUSTIN CORDONNIER, Urology
STANLEY F. HAMPTON, Internal Medicine
E. C. HOLSCHE, Orthopedic Surgery
ROBERT C. KINGSLAND, Internal Medicine

CARL E. LISCHER, General Surgery
EDWARD LYMAN, Otolaryngology
JOSEPH W. NOAH, Internal Medicine
MAURICE ROCHE, Orthopedic Surgery
H. ROSENBAUM, Ophthalmology
GEORGE E. ROULHAC, Neurosurgery
JOHN SEDDON, Internal Medicine
SAMUEL WARSON, Neuropsychiatry

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, Saint Louis 10, Missouri.

Other schools of the University providing instruction in related fields include the George Warren Brown School of Social Work and the School of Nursing. For further information write the Dean of the School.

DEPARTMENT OF HOSPITAL ADMINISTRATION

FRANK R. BRADLEY, M.D. . . . . . . . . . . . . . . . . . . . . . . . . . Director

A two year course leading to a certificate or the degree of Master of Hospital Administration. The first year is given at the University and School of Medicine and includes courses in accounting and statistics, social work, public health, and hospital administration. The second year is spent 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

SUE HURT, B.S., O.T.R. . . . . . . . . . . . . . . . . . . . . . . . . . Director

A three year course leading to the degree of Bachelor of Science in Occupational Therapy. During the first two years the student acquires a working knowledge of both the physical and the psychological aspects of disability, facility in a wide range of skills activities, and an understanding of how these may be correlated in treatment. She also becomes oriented to the various medical and social resources for rehabilitation, and to the place of occupational therapy in the coordinated program. With this end in view, courses such as the following are offered: anatomy, physiology, disability, evaluation, clinical subjects, problems of
personality functioning, disease and its social component, vocational
counseling, rehabilitation, woodwork, printing, textile decoration, and the
application of occupational therapy to the several disability groups. The
third year is a practice period in approved treatment 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 year 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 extra ocular muscles and prac-
tical 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 matricu-
lation 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 for the first term
and $100 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
JOYCE HUMPHREY, A.B. . . . . . . . . . Assistant Director

A twelve months course for the training of medical technologists lead-
ing to a certificate. The course includes theoretical and practical training
in blood banking, clinical microscopy, tissue pathology, parasitology,
bacteriology and serology, biological chemistry, electrocardiography and
basal metabolism.

Applicants must present at least two years of approved college train-
ing. The tuition is $50.00 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

An eight months course for comprehensive special training in the practical administration of anesthetics by approved medical techniques, and the theory underlying their skilled administration. Upon satisfactory completion of the course, a 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 anesthesias upon her own responsibility.

The course is open to graduates of accredited Schools of Nursing. The tuition is $100.00.
THE SCHOOL OF MEDICINE

DEGREES CONFERRED AT COMMENCEMENT

June 8, 1948

DOCTOR OF MEDICINE

NAME — INTERNSHIP

Ackerman, Helen, A.B.—Bellevue Hospital, New York, New York
Allen, Joseph Hunter, Jr.—Presbyterian Hospital, Chicago, Illinois
Arpe, Sarah Louise—Children's Hospital, San Francisco, California
Barritt, Clay Franklin—Barnes Hospital, St. Louis, Missouri
Beach, Richard, A.B., B.S.—Union Memorial Hospital, Baltimore, Maryland
Behrens, Donald Theodore—St. Louis City Hospital, St. Louis, Missouri
Bench, Robert Kenneth—Fresno County Hospital, Fresno, California.
Berry, Paul Thomas, B.A.—St. Luke's Hospital, St. Louis, Missouri
Birenbaum, Aaron—Jewish Hospital, St. Louis, Missouri
Bieisch, Virgil Roland—Hospital of University of Pennsylvania, Philadelphia, Pennsylvania
Brechner, Verne Lonell—Seaside Memorial Hospital, Long Beach, California
Brown, James Trlg, B.S.—Vanderbilt University Hospital, Nashville, Tennessee
Burkhart, Betty Jane—Connor Island Hospital, New York, New York
Burroughs, Lyle Wendell, A.B.—Presbyterian Hospital, Chicago, Illinois
Burstein, Robert—Jewish Hospital, St. Louis, Missouri
Catanzaro, Francis Joseph—St. Louis City Hospital, St. Louis, Missouri
Chambers, George Matthew—Sacramento County Hospital, Sacramento, California
Clark, Ernest James—Research Hospital, Kansas City, Missouri
Clark, Helen Estelle, B.S.—Barnes Hospital, St. Louis, Missouri
Cohle, Richard Raymond—St. Louis County Hospital, Clayton, Missouri
Conn, James Keener, Jr.—United States Public Health Service, Stapleton, Staten Island, New York

Dunn, Robert Edgar—Presbyterian Hospital, Chicago, Illinois
Evans, Robert Neale, B.S.—Ancker Hospital, St. Paul, Minnesota.
Falzone, Joseph Andrew, Jr., A.B.—St. Louis City Hospital, Clayton, Missouri
Farris, George William—Jefferson-Hillman Hospital, Birmingham, Alabama
Fernau, Walter August, Jr., A.B.—Cincinnati General Hospital, Cincinnati, Ohio
Friedman, Robert Henry—Jewish Hospital, St. Louis, Missouri
Garfinkel, Bernard Theodore—Barnes Hospital, St. Louis, Missouri
Gaunt, William Danforth—Barnes Hospital, St. Louis, Missouri
Gentry, John Timon, A.B.—University of Chicago Clinics, Chicago, Illinois
Gibb, Robert Pearce, B.S.—Grace-New Haven Community Hospital, New Haven, Connecticut
Gould, Purdue Leighton—University of Minnesota Hospital, Minneapolis, Minnesota
Greditzer, Arthur S.—San Francisco Marine Hospital, San Francisco, California
Greene, Nathan Wayne, B.S.—Edward W. Sparrow Hospital, Lansing, Michigan
Guterman, David Albert—Jewish Hospital, St. Louis, Missouri
Hall, Joe Bill—Barnes Hospital, St. Louis, Missouri
Harling, Hugh Richard—St. Louis City Hospital, St. Louis, Missouri
Haugen, Roger Kent, A.B., B.S.—Ancker Hospital, St. Paul, Minnesota
Haynes, Robert Clark, Jr.—no internship
Hindall, Boyd Crawford—University of Minnesota Hospital, Minneapolis, Minnesota
Huck, Richard Felix, Jr., B.S.—St. Joseph's Hospital, Milwaukee, Wisconsin
Hueckstep, Robert Arnold, A.B.—St. Luke's Hospital, St. Louis, Missouri
Hulme, Andrew Wilbur, B.S.—Henry Ford Hospital, Detroit, Michigan

Johnson, David Spires—Duke Hospital, Durham, North Carolina
Johnson, Richard Boyd—Indianapolis General Hospital, Indianapolis, Indiana
Jones, Philip Newton—St. Luke's Hospital, Chicago, Illinois
Jordan, Stanley Young—Presbyterian Hospital, Chicago, Illinois
Kaufman, Ruth, B.S.—St. Luke's Hospital, St. Louis, Missouri
Kildow, John Oliver—St. Luke's Hospital, Spokane, Washington
Kiyasu, Robert Kunio—University Hospital, Ann Arbor, Michigan

Lampa, Alfred Henry, B.S.—Presbyterian Hospital, Chicago, Illinois
Ledner, Robert Alan, A.B.—Jewish Hospital of Brooklyn, Brooklyn, New York
Lerwick, Everett Roger, B.S.—Missouri Baptist Hospital, St. Louis, Missouri
NAME — INTERNSHIP

Maffei, Rudolph James—St. Louis City Hospital, St. Louis, Missouri
Malin, Jacob—St. Luke’s Hospital, Spokane, Washington
Maze, Laurence Earl, Jr.—St. Louis City Hospital, St. Louis, Missouri
McFarlane, John Alvin—St. Luke’s Hospital, St. Louis, Missouri
McGowan, Hugh Densel—Missouri Baptist Hospital, St. Louis, Missouri
McLean, James Steven—Presbyterian Hospital, Chicago, Illinois
McLin, Leonard Dale, A.B.—St. Louis City Hospital, St. Louis, Missouri
Meiners, Theodore McGimsey—St. Luke’s Hospital, St. Louis, Missouri
Middelkamp, John Neal, E.S.—Gallinger Municipal Hospital, Washington, D. C.
Morgan, Daniel Lawrence, A.B.—Barnes Hospital, St. Louis, Missouri
Motterson, Joseph Morton, A.B., B.S.—St. Louis City Hospital, St. Louis, Missouri
Nickel, James Francis, B.A.—Barnes Hospital, St. Louis, Missouri
Norbury, Frank Barnes—Massachusetts General Hospital, Boston, Massachusetts
O’Neal, Patricia Lee, A.B.—University Hospital, Iowa City, Iowa
Parkhill, Homer Carroll, B.S.—St. Luke’s Hospital, St. Louis, Missouri
Perkoff, Gerald Thomas—Salt Lake County General Hospital, Salt Lake City, Utah
Petty, Robert William, B.S.—Fresno County Hospital, Fresno, California
Porpois, Arthur Anastasiou, A.B.—Barnes Hospital, St. Louis, Missouri
Post, Lawrence Tyler, Jr.—Wilmer Institute, Johns Hopkins University, Baltimore, Maryland
Reichlin, Seymour, A.B.—New York Hospital, New York, New York
Riffkin, Shale Marshall, A.B.—Jewish Hospital, St. Louis, Missouri
Sartorius, Arthur George, Jr., A.B.—Ancker Hospital, St. Paul, Minnesota
Schuman, Stanley Harold—Jewish Hospital, St. Louis, Missouri
Shintani, Juro—St. Louis City Hospital, St. Louis, Missouri
Siekert, Herbert Otto—Duke Hospital, Durham, North Carolina
Smith, Grafton Adrian—University Hospital, Minneapolis, Minnesota
Stein, Arthur Henry, Jr., A.B.—Barnes Hospital, St. Louis, Missouri
Stevens, Thomas Neilton—St. Louis City Hospital, St. Louis, Missouri
Stokes, James Melvin—St. Louis City Hospital, S. Louis, Missouri
Strode, Walter Sterling, A.B.—Queens Hospital, Honolulu, Hawaii
Sweigert, James Howard—Barnes Hospital, St. Louis, Missouri
Taylor, Duane Russell, A.B.—St. Louis City Hospital, St. Louis, Missouri
Tilghman, Fred Olin, B.S.—St. Luke’s Hospital, St. Louis, Missouri
Warden, Duane D.—Queens Hospital, Honolulu, Hawaii
Winkler, Lee Frederick—George Washington University Hospital, Washington, D. C.
Wylgo, Elliott Ivan—Jewish Hospital, St. Louis, Missouri
PRIZES AWARDED AT COMMENCEMENT
June 8, 1948

GILL PRIZE IN ANATOMY
Myron William Wheat, Jr.

GILL PRIZE IN PEDIATRICS
Bernard Theodore Garfinkel

THE ALPHA OMEGA ALPHA BOOK PRIZE
Helen Estelle Clark, B.S.

THE BORDEN UNDERGRADUATE RESEARCH AWARD
James Francis Nickel, A.B.

SIDNEY I. SCHWAB BOOK PRIZE IN PSYCHIATRY
Milo Lawrence Heideman, Jr., A.B.

PRIZE OF THE MEDICAL FUND SOCIETY IN MEDICINE
Helen Estelle Clark, B.S.

NU SIGMA NU AWARDS
Seymour Advocate, A.B., M.A.
Philip S. Norman, A.B.

PRIZE OF THE MEDICAL FUND SOCIETY IN SURGERY
Seymour Reichlin, A.B.

JACKSON JOHNSON REGIONAL SCHOLARs
David Edward Davidoff
Bruce Dwight Fallis, A.B.
Sidney F. Kahn
John M. Kissane, B.S.
Peter Paul Rowell, B.S.
Ronald LeRoy Scott
Doris Evelyn Wilson, B.S.

FOURTH YEAR CLASS (1948-49)
Au, Man Hing, B.S., '36; M.S., '39, University of Hawaii—Honolulu, T. H.
Benes, Doris May, B.S., Western Reserve University, '48—Cleveland, Ohio
Berg, Leonard, A.B., Washington University, '45—St. Louis, Missouri
Bond, Marcus Buster, A.B., Westminster Coll., '46—St. Louis, Missouri
Breidenthal, Ward Brander—Kansas City, Missouri
Brum, Kenneth—St. Charles, Missouri
Bumgarner, Roger William—Odesa, Missouri
Cannon, William Joseph—Elsberry, Missouri
Carleton, Charles E., Jr., B.S., University of Missouri, '47—Farmington, Missouri
Duncan, James T., Jr., A.B., William Jewell Coll., '43—Smithville, Missouri
Elder, Edward E., B.S., University of Missouri, '47—Dearborn, Michigan
Felton, Warren L., Jr.—Bartlesville, Oklahoma
Fingerhood, Marvin George—St. Louis, Missouri
Fischer, John Robert—Austin, Minnesota
Fogel, Harold N., B.S., University of Missouri, '47—Kansas City, Missouri
Forrester, Ralph H.—Bixby, Oklahoma
Fox, Roger E., B.S., University of South Dakota, ’46—Mentone, California
Goodwin, Gerald A.—Holton, Michigan
Gray, Mary Jane, A.B., Swarthmore College, ’45—St. Louis, Missouri
Great Falls, Montana
Gunn, Jack, A.B., Westminster College, ’43—Versailles, Missouri
Hanna, Richard E., A.B., University of South Dakota, ’45—Faribault, Minnesota
Happel, Elizabeth, A.B., Smith College, ’45—St. Louis, Missouri
Hawkins, James C.—Long Beach, California
Hayhurst, Dale W.—Colorado Springs, Colorado
Heideman, Milo L., Jr., A.B., Harvard College, ’47—St. Louis, Missouri
Holmick, Ernest D., A.B., West Virginia University, ’43—Cumberland, Maryland
Hessing, John W.—St. Louis, Missouri
Hult, John E.—Bolivia, South America
Innes, Robert C.—Payette, Missouri
Jaeger, Joseph N.—Jackson, Missouri
Jernigan, James A., B.S., Mississippi College, ’45—Tupelo, Mississippi
Jick, Sidney—University City, Missouri
Kadlub, Edwin C.—Chicago, Illinois
Kelly, Patrick C.—Springfield, Missouri
Klein, Morton Wolf—St. Louis, Missouri
Korn, Robert—Detroit, Michigan
Krol, Francis L., B.S., University of Missouri, ’47—Muskegon, Michigan
Kubinek, Roland—Eagle River, Wisconsin
Kurnahara, Louis—St. Louis, Missouri
Laarala, Alan R.—Albuquerque, New Mexico
Lenzen, John L., A.B., ’46; B.S., ’47, University of Missouri—Webster Groves, Missouri
Levitt, Joseph—St. Louis, Missouri
Lipschitz, Ervin—St. Louis, Missouri
Livingston, Harry H.—Warren, Ohio
Lonow, Stanley L.—Springfield, Missouri
Luby, Elliot D., B.S., University of Missouri, ’47—Detroit, Michigan
Lund, Hurlf G., A.B., Washington University, ’40; B.S., University of Missouri, ’47—St. Louis, Missouri
Lund, Robert H.—St. Louis, Missouri
Lyle, Robert R., A.B., Westminster College, ’46; B.S., University of Missouri, ’47—Maryville, Missouri
Magallon, Robert A.—Webster Groves, Missouri
McCheeney, John Allen—Clayton, Missouri
McCheenehy, Margaret Burge, A.B., University of Missouri, ’38—Clayton, Missouri
McGinty, Charles P., B.S., A.B., Southeast Mo. State Teachers Coll., ’45—Cape Girardeau, Missouri
Medley, Keith G.—Post Falls, Idaho
Mellis, Richard T.—St. Louis, Missouri
Minnihan, Robert W.—Dixon, Missouri
Moore, Robert—Kirksville, Missouri
Munro, Gordon A.—Grand Junction, Colorado
O’Brien, John F., B.S., University of Missouri, ’47—Dearborn, Michigan
Ohlman, John M.—Honolulu, T. H.
Pearce, Eugene W.—St. Louis, Missouri
Perry, Eldon T.—Hannibal, Missouri
Peterson, Shirley J., B.S., University of Chicago, ’44—Park Ridge, Illinois
Pinney, Edward L., Jr., B.S., West Virginia University, ’47—Dixie, West Virginia
Ramey, Ehret O., B.S., University of Missouri, ’47—St. Louis, Missouri
Raso, Anthony J.—East Boston, Massachusetts
Raymond, Bruce A., B.S., University of South Dakota, ’46—Portland, Oregon
Reenser, Paul J., B.S., University of Missouri, ’46—Hammond, Missouri
Rokaw, Stanley N., B.B.A., Coll. of the City of N. Y., ’43—Brooklyn, New York
Rosenhan, Marvin—University City, Missouri
Sargent, Harold J.—Newfoundland, New Jersey
Schle, Herbert—St. Louis, Missouri
Schlenk, Daniel A., B.B., Miami University, ’40; M.S., Washington University, ’42—Middletown, Ohio
Seltic, Beatrice Janet, A.B., Stanford University, ’45—Bremerton, Washington
Selden, Russell L., A.B., ’42; B.S., ’47, University of Missouri—Kansas City, Missouri
Sievers, Maurice L., B.S., University of South Dakota, ’47—Mackinaw, Illinois
Sievers, Sid, B.S., University of Missouri, ’47—Princeton, West Virginia
Stein, Marvin—St. Louis, Missouri
Stull, Fred E., Jr.—Jonesboro, Arkansas
Sugioka, Kenneth, B.S., University of Denver, ’46—Denver, Colorado
Sultzman, Lorraine C., B.S., University of Missouri, ’46—Hannibal, Missouri
Thomason, David D., B.S., University of Missouri, ’47—Bolivar, Missouri
Vandergon, Keith G.—Delano, Minnesota
Wales, Thomas J., B.S., Richmond College, '46-East St. Louis, Illinois
Wesselsius, Lewis F., B.S., University of Missouri, '47-St. Louis, Missouri
Wheeler, Laurens F.—St. Louis, Missouri
Whitmore, J. Stewart—Mt. Lebanon, Pennsylvania
Williams, Frank R., B.S., University of Missouri, '47-Springfield, Missouri
Wood, James A.—St. Louis, Missouri
Woodard, George S., Jr., B.S., University of Missouri, '47—Sarasota, Florida
Yost, Paul W., B.S., McKendree Coll., '42—West Frankfort, Illinois

Total, 96

THIRD YEAR CLASS (1948-49)

Adams, Walter Crawford, Jr., B.S., Univ. of Ark., '46—Pebble Beach, California
Advert, 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
Berger, Joseph Smith, A.B., Washington Univ., '45—St. Louis, Missouri
Borenstein, Milton Kelter, A.B., '41; M.A., '47, University of South Dakota—Vermillion, South Dakota

Brown, Elmer Burrell, Jr., A.B., Oberlin Coll., '46—Richmond Heights, Missouri
Brook, Thomas Addison, Jr.—Des Moines, Iowa
Brothel, 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
Cerf, Ruth Emma, B.S., University of Missouri, '48—St. Louis, Missouri

Chambers, William Norman—San Antonio, Texas
Chen, Eugene William, A.B., '47; B.S., '48, University of Missouri—Hermann, Missouri

Cheney, Hubert Bruce—Maplewood, Missouri
Cherry, Edward Takeuchi, B.S., Univ. of Hawaii, '45—Honolulu, T. H.

Engelking, David Frederick, A.B., Cornell Univ., '46—Lanark, Illinois
Epp, Millard J.—Henderson, Nebraska
Feldaker, Mauri—St. Louis, Missouri
Finger, Donald Harvey—St. Louis, Missouri
Fuller, Roger Lee, B.S., Murray State Teachers Coll., '42—Louisville, Kentucky
Gabriel, Wesley F., B.A., Pacific Lutheran Coll., '46; M.S., Univ. of Mich., '46—Tucson, Washington
Goldstein, Albert, S.B., Univ. of Chicago, '42—Chicago, Illinois
Gray, Hilton Marie, A.B., Vassar Coll., '45—Clayton, Missouri
Hebert, William M., A.B., Fresno State Coll., '45—Fresno, California
Hendricksen, Ann Marie—St. Louis, Missouri
Henrich, John Kelly—Macon, Mississippi
Herr, Henry, Louie Crum—Water Valley, Mississippi
Hillman, Frederick Joseph—Ottawa, Illinois
Howard, Frank Albert—Enid, Oklahoma
Hurst, Peter Leopold—Orange, New Jersey
Iwano, Joseph Hifuo, A.B., Washington Univ., '44—Honolulu, T. H.
James, Norman Alva, B.S., Central Mo. St. Teachers Coll., '45—Vienna, Missouri
King, Thomas Lee, B.S., Trinity Univ., '46—San Antonio, Texas
Kiser, John Remy, A.B., Univ. of California, '47; B.S., Univ. of Missouri, '48—Elmo, California
Krahenbuhl, Marcella May, A.B., Univ. of Kansas City, '46—Kansas City, Mo.
Lederer, Charles Marshall, Fort Lupton, Colorado
Levin, Charlotte Elizabeth—St. Louis, Missouri
Liem, Shields Oseo, B.S., Central Mo. St. Teachers Coll., '46—Pleasant Hill, Missouri
Longway, Maurice Julius, Jr., A.B., Washington Univ., '46—Richmond Heights, Missouri
Lowrey, Daniel Bernard, B.S., Howard College, '44—Birmingham, Alabama
Lutz, Harrette Ewing, B.A., Univ. of Colo., '46—Augusta, Kansas
March, Jack Franklin—Chattanooga, Tennessee
Margetts, Lester Harold, Jr., A.B., Univ. of Mont., '46—Missoula, Montana
Mills, James DeWitt, Jr.—St. Louis, Missouri
Osburn, Robert Lyle, A.B., Washington Univ., '41—St. Louis, Missouri
Owen, Joseph Danan, 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—St. Louis, Missouri
Payne, William Spencer—St. Louis, Missouri
Puls, Richard John, B.A., University of Texas, '47—Fort Worth, Texas
Ramsey, Lloyd Hamilton, B.S., Univ. of Kentucky, '42—Lexington, Kentucky
Rehfeld, Newell Edward—Oswego, New York
Reister, Dorothy Daley—Charlottesville, Virginia
Reister, Philip Douglas, B.S., Michigan St. Coll., '42—Charlottesville, Virginia
Rochman, Robert, A.B., Washington Univ., '42—St. Louis, Missouri
Rodgers, Dorothy Llewellyn, A.B., West Virginia Univ., '43—Morgantown, West Virginia
Rukes, Junor Max, A.B., '40; M.A., '42, Ind. St. Teachers Coll.—Rosedale, Indiana
Scafrotta, Joseph Vincent—Cleveland, Ohio
Scherbeck, 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
Swann, Richard Lee—Belleville, Illinois
Thomason, Robert Edgar, B.S., Drury Coll., '42—Bolivar, Missouri
Vineyard, William R.—Nevada, Missouri
Weiner, Robert Harris, A.B., '47; B.S., '48, University of Missouri—St. Louis, Missouri
Walter, 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.—Lakeville, Mississippi
Wetzel, Gloria Jean, B.S., State Coll. of Washington, '46—Mexco City, Wash.
Whipple, Howard Lloyd, A.B., Univ. of Mo., '41—St. Louis, Missouri
Woolsey, John Langdon, B.S., Southwestern Coll., '40—Galesburg, Illinois
Wynder, Ernest Ludwig, B.A., New York Univ., '43—Irvington, New Jersey
Yang, Gerald A., B.S., Northwestern Univ., '45—St. Louis, Missouri
Total, 86

SECOND YEAR CLAS (1948-49)

Alexander, Pauline K., A.B., Baylor University, '47—Mulberry, Arkansas
Anderson, John B., Jr.—Vincennes, Indiana
Bass, Billy J.—Jadwin, Missouri
Burnside, Charles R.—Pestus, Missouri
Cady, Lee D., Jr., A.B., Washington University, '47—Dallas, Texas
Casey, George, B.S., University of Illinois, '47—Eldorado, Illinois
Cheek, William R., A.B., Southwest Missouri State Coll., '47—Springfield, Missouri
Chou, Yen-ping—Kunming, China
Cunningham, James B., A.B., University of Southern California, '47—Amariillo, Texas
Cutter, James A.—Webster Groves, Missouri
DeFotter, Kathyrn M., B.A., University of Colorado, '45—La Porte, Colorado
Dodig, Anne C., A.B., Washington University, '47—University City, Missouri
Dorr, Robert, Birmingham, Alabama
Dunlevy, James H., A.B., State University of Iowa, '47—Fargo, North Dakota
Evenson, Edward S.—Sherman, South Dakota
Faw, Melvin L.—Topeka, Kansas
Felton, Theodore C.—St. Louis, Missouri
Foster, Eugene A., A.B., Washington University, '47—New York, New York
Fuller, Wilbur E.—St. Louis, Missouri
Gay, Elizabeth Kirkbride, B.S., '39; M.S., '41, University of Oklahoma—St. Louis, Missouri
Gayler, Walter R., A.B., Washington University, '47—Cape Girardeau, Missouri
German, Walter A., Jr., A.B., Washington University, '47—Jefferson Barracks, Missouri
Goss, Lowell A., B.A., Macalester Coll., '42—Nerstrand, Minnesota
Goldstein, Marcy A.—St. Louis, Missouri
Gunning, George—Makaweli, Kauai, T. H.
Gratz, Raymond Joseph—Jefferson City, Missouri
Grunwaldt, Edgar—Buenos Aires, Argentina
Guze, Lucien E.—Bronx, New York
Haddox, Austin W.—Pawnee, Oklahoma
Harris, Forest D.—Overland, Missouri
Hartmann, Alexis E., Jr.—University City, Missouri
Hendrix, Charles E.—Petersburg, Indiana
Holmes, David Reed, B.S., Southwest Missouri State Teachers Coll., '42—Springfield, 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
THE SCHOOL OF MEDICINE

Johnson, Walfred W., B.A., Montana State University, '47—Missoula, Montana
Kahn, Sidney F.—Memphis, Tennessee
Rappaport, 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
Kriemeyer, George R.—Normandy, Missouri
Leong, James Tim—Honolulu, T. H.
Levin, Marvin E.—St. Louis, Missouri
McNally, Michael A., B.S., Washington University, '47—Clayton, Missouri
Mendenhall, Max, B.S., University of California, '47—Upper Lake, California
Morgan, Jack N., B.S., Southern Methodist University, '47—Dallas, Texas
Morgan, Tolley Gotham, B.A., Pacific Union College, '47—Los Angeles, California
Neuenschwander, John Rapp—East St. Louis, Illinois
Norman, Philip S., A.B., Kansas State Teachers Coll., '47—Pittsburg, Kansas
Ostfeld, Adrian M.—St. Louis, Missouri
Pinsker, Oscar T., A.B., Washington University, '47—Kansas City, Missouri
Pitts, Kenneth E.—Overland, Missouri
Prater, Bill G.—Springfield, Missouri
Rader, George B.—Kansas City, Missouri
Ridgell, Orin J., III—Alhambra, California
Roberts, Wayne E.—Kansas City, Missouri
Rouse, George, Jr.—Milwaukee, Wisconsin
Russell, David M.—North Little Rock, Arkansas
Serkes, Kenneth D.—St. Louis, Missouri
Smith, Gerald L., A.B., Colgate University, '47—Long Island, New York
Stevens, John E.—Chicago, Illinois
Suarez, Jose Roberto, B.A., Polytechnic Institute of Puerto Rico, '47—San Juan, P. R.
Taylor, Helen L.—St. Louis, Missouri
Tyler, Herman R., A.B., Syracuse University, '47—Brooklyn, New York
Van Prooyen, Cornelia M., M.S., State Coll. 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 Keith—Farmington, Missouri
Weaver, William C., B.S., State Coll. of Washington, '43—Leavenworth, Wash.
Welte, Wilfred H.—St. Louis, Missouri
Wyatt, George M.—Mayfield, Kentucky
Wyatt, Buck J., Jr., B.A., University of Texas, '43—Wills Point, Texas
Zimmerman, Herbert E.—University City, Missouri
Total, 83

FIRST YEAR CLASS (1948-49)

Allbaugh, Robert Dean, B.S., Iowa State College, '48—Ames, Iowa
Allman, Arthur H.—Stroudsburg, Pennsylvania
Auner, Cecil Ray, A.B., Southwest Missouri State College, '48—Springfield, Missouri
Ballew, John William—Lincoln, Nebraska
Bixby, William Keeney II, A.B., Princeton University, '48—St. Louis, Missouri
Blalock, Robert Wyatt, A.B., Culver-Stockton College, '48—Canton, Missouri
Blalock, William Neil—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
Colo, 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 Dea, A.B., Washington University, '48—Ferguson, Missouri
Dawes, Albert A.—East Boston, Massachusetts
Denman, John Laughlin, B.S., University of Oklahoma, '48—Oklahoma City, Oklahoma
Enggas, John Thomas—Linde, Missouri
Fallis, Bruce Dwight, A.B., Texas Christian University, '48—Pl. Worth, Texas
Frederick, Raymon 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
Hooper, William Dale—Moscow, Idaho
Jonas, Harry Sfg., Jr.—Kirkville, Missouri
Karsh, Robert Stanley—St. Louis, Missouri
Katina, Robert Bernard—Miami, Florida
Katz, Marvin Alan, A.B., Washington University, '48—St. Louis, Missouri
Kauffman, Leonard Allan, A.B., Washington University, '48—Brooklyn, New York
King, Francis Craig, B.M.E., Cornell University, '45—Washington, D. C.
Kimney, David Saul, A.B., University of North Carolina, '47—Berkeley, California
Kisanna, John Michael, A.B., University of Rochester, '48—Pocatello, Idaho
Lancé, James McLaren, A.B., Washington University, '48—St. Louis Missouri
Lansche, Walter Edward, A.B., Washington University, '48—St. Louis, Missouri
Larsen, 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
Lohmann, Edward Frank, B.S., Wagner College, '48—Little Rock, Arkansas
Luecke, Percey Edgar, Jr., B.S., Southern Methodist University, '48—Dallas, Texas
Markowitz, Alfred Morris, A.B., New York University, '48—Brooklyn, New York
Mcafee, Robert Dixon, A.B., Central College, '48—Pawtucket, Rhode Island
McCallan, James David—Pawtucket, Rhode Island
McMillan, Albert Eugene, A.B., Miami University, '48—Covington, Kentucky
Miller, Charles, Jr., B.S., Iowa State College, '48—Ames, Iowa
Namba, Albert Takemoto, B.A., University of California at Los Angeles, '48—Redondo Beach, California
Oetter, Donald Lee, A.B., Washington University, '48—St. Louis, Missouri
Oliver, George Allen—Richland, Missouri
Parker, Brent Merhord—Webster Groves, Missouri
Peterson, Albert Frederick, B.S., University of Wisconsin, '48—Milwaukee, Wisconsin
Porter, John Hart, III, A.B., Harvard University, '48—St. Louis, Missouri
Pranko, Robert Carrington, B.S., Drury College, '48—St. Louis, Missouri
Rechlin, Bernard—Philadelphia, Pennsylvania
Robins, Bernard, B.A., Rutgers University, '48—Newark, New Jersey
Rowe, John Hayden—Battenville, 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
Schloemann, Carl Theodor, A.B., Washington University, '48—St. Louis, Missouri
Schulte, John Walter—Cuyahoga, 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—Moberly, 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
Trumpeil, Eugene Eric—Kirkville, Missouri
Washburn, Stephen Louis—Waban, Massachusetts
Wassers, Richard Herbert—Saginaw, Michigan
Welch, James Lansing, B.A., State University of Iowa, '48—Ames, Iowa
Wilson, Doris Evelyn, B.S., State College of Washington, '48—Wapato, Washington
Windor, Richard Browning, A.B., Princeton University, '48—Point Pleasant, West Virginia

Total, 86
SUMMARY OF STUDENTS IN THE SCHOOL OF MEDICINE

<table>
<thead>
<tr>
<th>Year Class</th>
<th>Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fourth Year Class</td>
<td>96</td>
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<tr>
<td>Third Year Class</td>
<td>86</td>
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<tr>
<td>Second Year Class</td>
<td>83</td>
</tr>
<tr>
<td>First Year Class</td>
<td>86</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>351</strong></td>
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