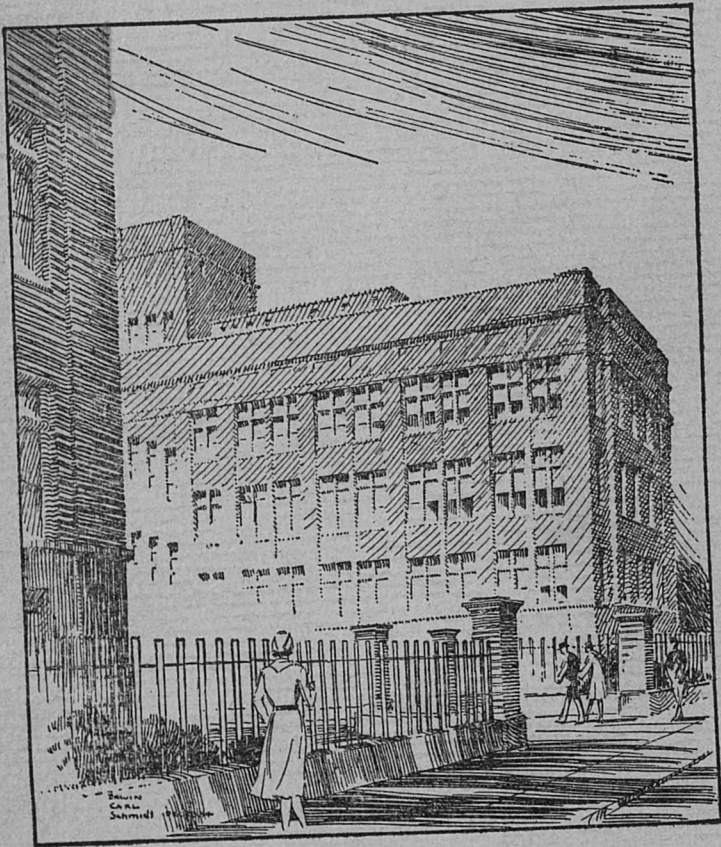


Mr Tracter

BULLETIN
OF
WASHINGTON UNIVERSITY

SAINT LOUIS, MISSOURI



SCHOOL OF MEDICINE

JANUARY, 1946

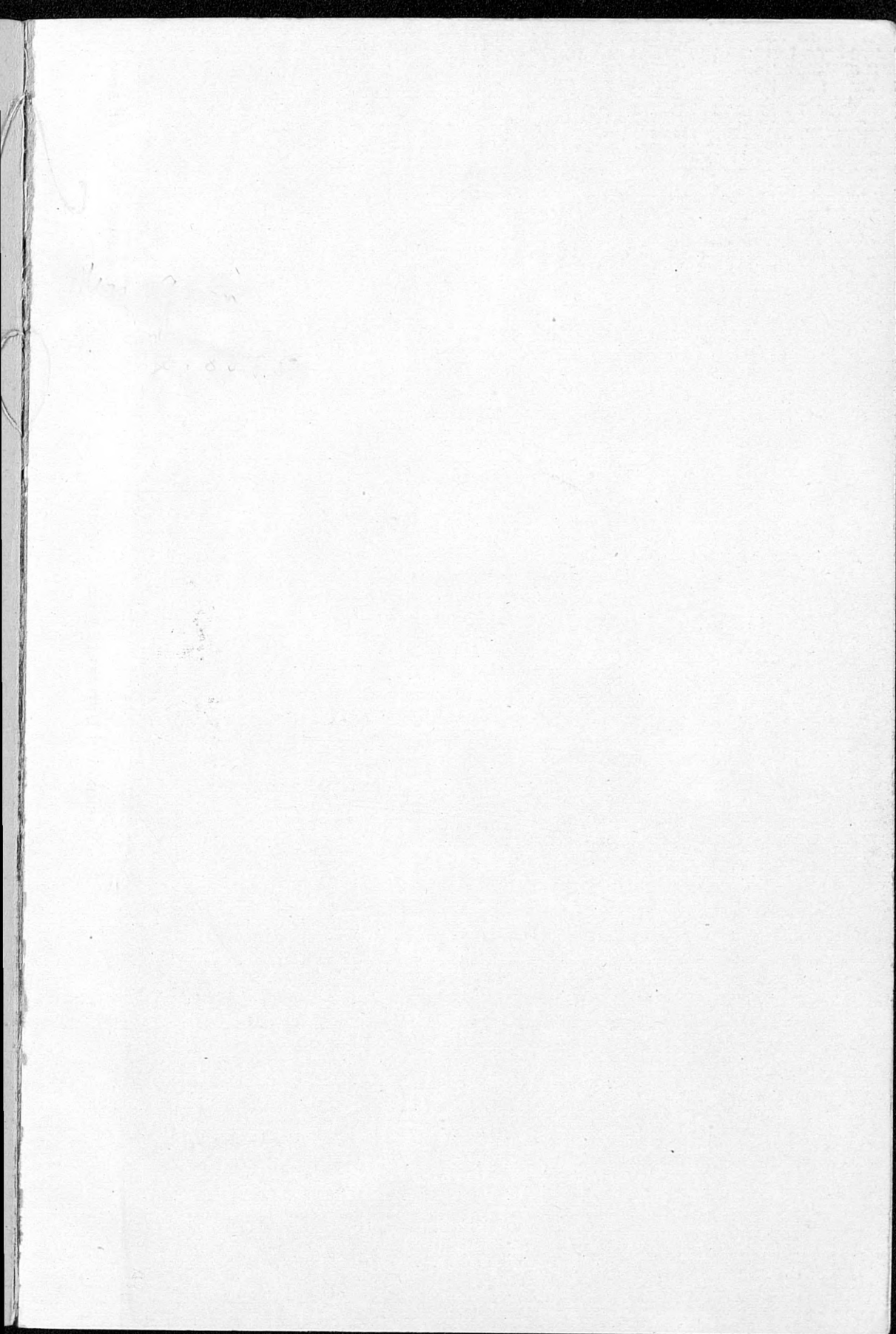
WASHINGTON UNIVERSITY

Arthur H. Compton, Ph.D., Sc.D., LL.D., Chancellor

- The College of Liberal Arts
William G. Bowling, A.M., Dean
- The School of Engineering
Alexander S. Langsdorf, M.M.E., Dean
- The School of Architecture
Alexander S. Langsdorf, M.M.E., Dean
- The School of Business and Public Administration
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- The George Warren Brown School of Social Work
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Otto W. Brandhorst, D.D.S., Dean
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Louise Knapp, R.N., B.S., A.M., Director
- The School of Fine Arts
Kenneth E. Hudson, B.F.A., Dean
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Willis H. Reals, Ph.D., Dean
- The Summer School
Frank L. Wright, A.M., Ed.D., Director

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

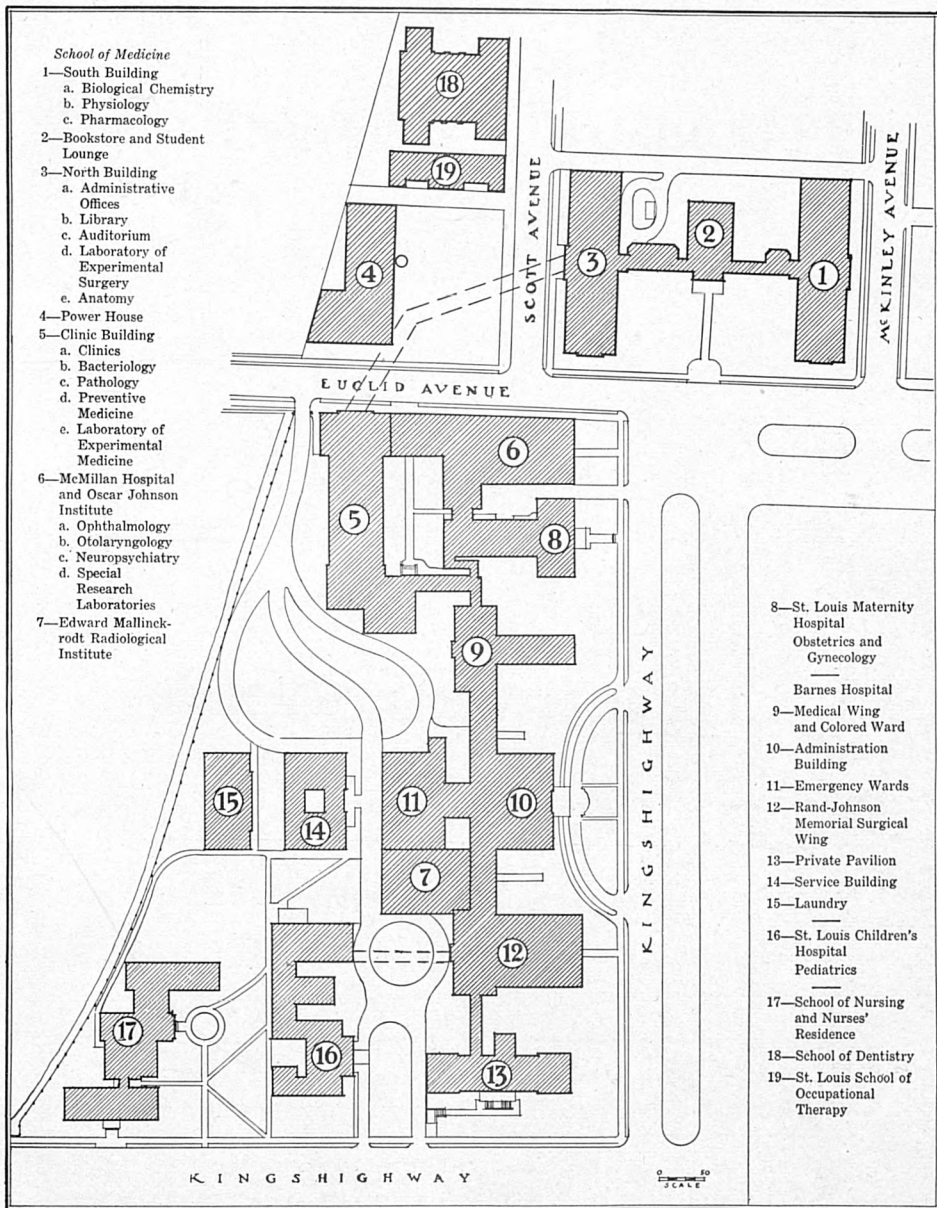
Note: Complete information about any of the schools listed above may be obtained by writing to the Dean or Director concerned.



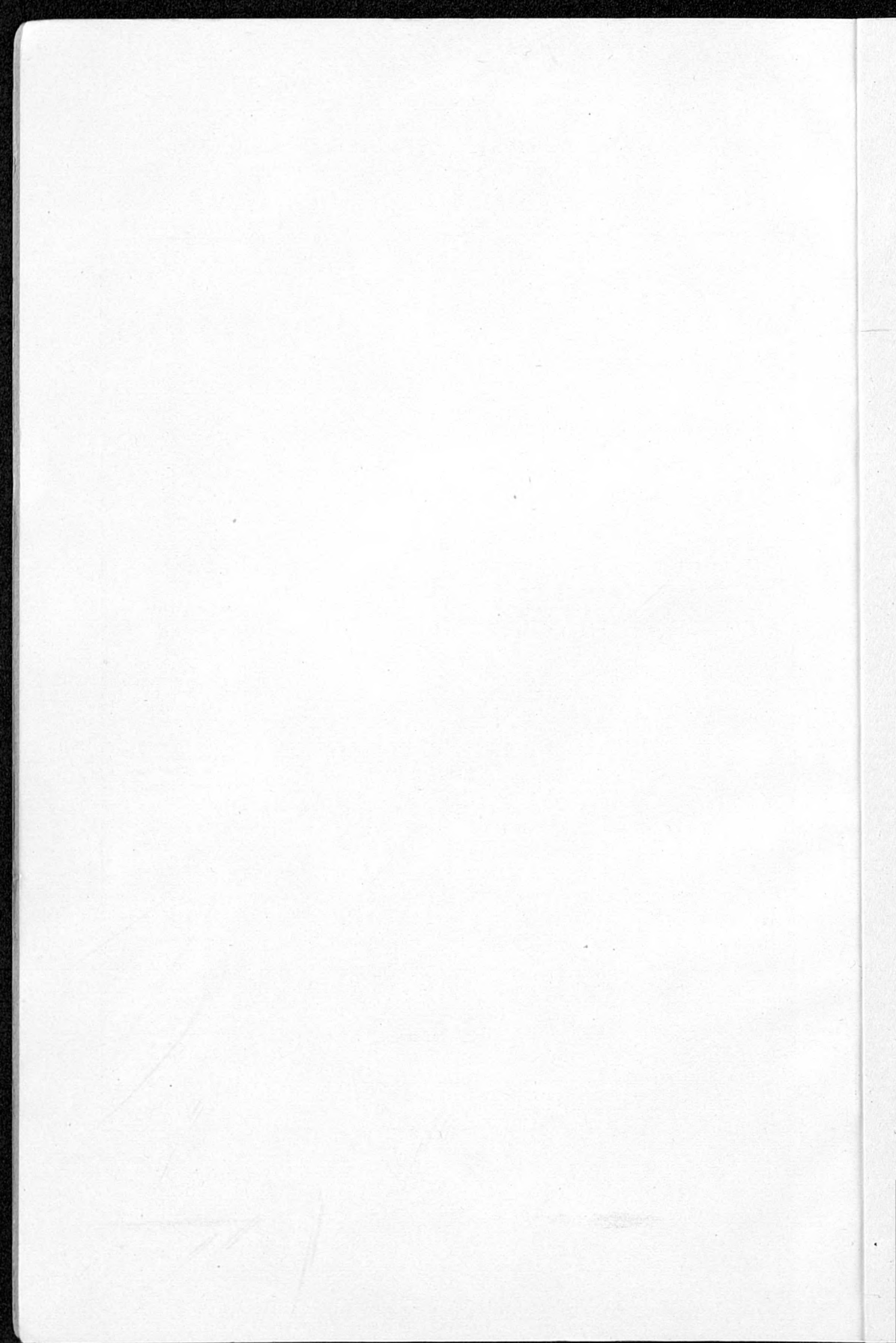


WASHINGTON UNIVERSITY MEDICAL GROUP

"Papin Aerial Survey," St. Louis



Block Plan of Washington University Medical Group and School of Dentistry



BULLETIN
of
WASHINGTON UNIVERSITY
SAINT LOUIS



SCHOOL OF MEDICINE

JANUARY 31, 1946

PUBLICATIONS OF WASHINGTON UNIVERSITY
SERIES II VOLUME XLIV NUMBER III

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Stevens Hotel
 Thru. A.M. - until Fri. P.M.
 Am. Cancer Soc.

CALENDAR

1946

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	1	2	3	4	5	..	..	..	..	..	1	2	..	..	..	..	..	1	2	..	1	2	3	4	5	6
6	7	8	9	10	11	12	3	4	5	6	7	8	9	3	4	5	6	7	8	9	7	8	9	10	11	12	13
13	14	15	16	17	18	19	10	11	12	13	14	15	16	10	11	12	13	14	15	16	14	15	16	17	18	19	20
20	21	22	23	24	25	26	17	18	19	20	21	22	23	17	18	19	20	21	22	23	21	22	23	24	25	26	27
27	28	29	30	31	..	..	24	25	26	27	28	..	..	24	25	26	27	28	29	30	28	29	30	..	..	..	..

MAY							JUNE							JULY							AUGUST								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
..	1	2	3	4	1	..	1	2	3	4	5	6	1	2	3
5	6	7	8	9	10	11	2	3	4	5	6	7	8	7	8	9	10	11	12	13	..	4	5	6	7	8	9	10	
12	13	14	15	16	17	18	9	10	11	12	13	14	15	14	15	16	17	18	19	20	11	12	13	14	15	16	17	18	
19	20	21	22	23	24	25	16	17	18	19	20	21	22	21	22	23	24	25	26	27	18	19	20	21	22	23	24	25	
26	27	28	29	30	31	..	23	24	25	26	27	28	29	28	29	30	31	..	..	..	25	26	27	28	29	30	31	..

SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	..	..	1	2	3	4	5	..	..	..	..	..	1	2	1	2	3	4	5	6	7
8	9	10	11	12	13	14	6	7	8	9	10	11	12	3	4	5	6	7	8	9	8	9	10	11	12	13	14
15	16	17	18	19	20	21	13	14	15	16	17	18	19	10	11	12	13	14	15	16	15	16	17	18	19	20	21
22	23	24	25	26	27	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23	22	23	24	25	26	27	28
29	30	..	..	..	..	..	27	28	29	30	31	..	..	24	25	26	27	28	29	30	29	30	31	..	..	..	..

1947

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	1	2	3	4	1	1	..	1	2	3	4	5	6
5	6	7	8	9	10	11	2	3	4	5	6	7	8	2	3	4	5	6	7	8	6	7	8	9	10	11	12
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19	20	21	22	23	24	25	16	17	18	19	20	21	22	16	17	18	19	20	21	22	20	21	22	23	24	25	26
26	27	28	29	30	31	..	23	24	25	26	27	28	..	23	24	25	26	27	28	29	27	28	29	30

MAY							JUNE							JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	..	1	2	3	..	..	..	..	..	..	1	..	1	2	3	4	5	..	..	..	..	..	..	1	2
4	5	6	7	8	9	10	8	9	10	11	12	13	14	6	7	8	9	10	11	12	3	4	5	6	7	8	9
11	12	13	14	15	16	17	15	16	17	18	19	20	21	13	14	15	16	17	18	19	10	11	12	13	14	15	16
18	19	20	21	22	23	24	22	23	24	25	26	27	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23
25	26	27	28	29	30	31	29	30	..	..	..	..	..	27	28	29	30	31	..	..	24	25	26	27	28	29	30

SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	1	2	3	4	5	6	1	2	3	4	1	1	2	3	4	5	6	7
7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8	7	8	9	10	11	12	13
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21	22	23	24	25	26	27	19	20	21	22	23	24	25	16	17	18	19	20	21	22	21	22	23	24	25	26	27
28	29	30	26	27	28	29	30	31	..	23	24	25	26	27	28	29	28	29	30	31

Hawaii
 Tue. May 4 4:15
 " " 10 4:15
 " " 1 2:00 or 10:30

CALENDAR

1946

January 2—Third trimester for third class begins; ends March 16.

Second trimester for first class begins; ends March 16.

Registration for first class.

January 7—Fourth quarter for fourth class begins; ends March 2.

March 4—Reading and examination period for fourth class begins; ends March 30.

March 11—Reading and examination period for second class begins; ends March 30.

March 18—Reading and examination period for third class begins; ends March 30.

Third trimester for first class begins; ends June 1.

Registration for first class.

March 23—Commencement.

April 1—First quarter for third and fourth classes begins; ends June 22.

Registration for third and fourth classes.

April 19 and 20—Holidays, Good Friday and Saturday.

May 30—Holiday, Decoration Day.

June 3—Reading and examination period for first class begins; ends June 22.

1946-47

September 9—Examinations for removal of conditions for second class.

September 12—Registration for all classes.

September 16—First trimester for first and second classes begins; ends November 30.

Second quarter for third and fourth classes begins; ends November 30.

November 28—Holiday, Thanksgiving Day.

December 2—Second trimester for first and second classes begins; ends March 1, 1947.

Third quarter for third and fourth classes begins; ends March 1, 1947.

December 23—Christmas recess for all classes begins; ends January 4, 1947.

1947

February 3—Registration for all classes.

February 22—Holiday—Washington's birthday.

March 3—Third trimester for first and second classes begins; ends May 17.

Fourth quarter for third and fourth classes begins; ends May 17.

April 4 and 5—Holidays, Good Friday and Saturday.

May 19—Reading and examination period for all classes begins; ends June 7.

May 30—Holiday, Decoration Day.

June 12—Commencement.

(MIRACLES)

1. The first miracle was the...
 2. The second miracle was the...
 3. The third miracle was the...
 4. The fourth miracle was the...
 5. The fifth miracle was the...
 6. The sixth miracle was the...
 7. The seventh miracle was the...
 8. The eighth miracle was the...
 9. The ninth miracle was the...
 10. The tenth miracle was the...
 11. The eleventh miracle was the...
 12. The twelfth miracle was the...
 13. The thirteenth miracle was the...
 14. The fourteenth miracle was the...
 15. The fifteenth miracle was the...
 16. The sixteenth miracle was the...
 17. The seventeenth miracle was the...
 18. The eighteenth miracle was the...
 19. The nineteenth miracle was the...
 20. The twentieth miracle was the...

THE CORPORATION

President

HARRY BROOKINGS WALLACE

First Vice-President

DANIEL KAYSER CATLIN

Directors

ALFRED LEE SHAPLEIGH¹

HARRY BROOKINGS WALLACE

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EUGENE DUTTON NIMS

ERNEST WILLIAM STIX

WILSON LINN HEMINGWAY

LEMUEL RAY CARTER

EDGAR MONSANTO QUEENY

ETHAN ALLEN HITCHCOCK SHEPLEY

HOWARD ISAAC YOUNG

CLIFFORD WILLARD GAYLORD

JOHN STARK LEHMANN

JOHN MERRILL OLIN

ROLAND MILTON HOERR

ADRIAN WOODS FRAZIER

Alumni Directors

WALTER OTTO BODE

FRANK PHILIP ASCHEMEYER

LOUIS HELMAR JORSTAD

LEO MICHAEL SHANLEY

Treasurer and Secretary to the Corporation

THOMAS EDWARD BLACKWELL

Office in Robert S. Brookings Hall, Skinker and
Lindell Boulevards

¹ Deceased December 24, 1945.

OFFICERS OF GOVERNMENT AND INSTRUCTION¹

ARTHUR HOLLY COMPTON *Chancellor of the University*
 B.S., College of Wooster, 1913; Sc.D., 1927; A.M., Princeton University, 1914;
 Ph.D., 1916; Sc.D., 1934; LL.D., Washington University, 1928; LL.D., University
 of California, 1930; Sc.D., Ohio State University, 1929; Sc.D., Yale University,
 1929; Sc.D., Brown University, 1935; Sc.D., Harvard University, 1936; Sc.D.,
 University of San Marcos, 1941; Sc.D., University of Arequipa, 1941; M.A.,
 Oxford University, 1934; L.H.D., University of Tampa, 1941.

JOYCE CLENNAM STEARNS *Dean of the Faculties*
 A.B., Kingfisher College, 1917; M.S., University of Chicago, 1925; Ph.D., 1929.

PHILIP ANDERSON SHAFFER *Dean*
 A.B., West Virginia University, 1900; Ph.D., Harvard University, 1904; Sc.D.,
 University of Rochester, 1939.

CARLYLE FERDINAND JACOBSEN *Assistant Dean*
 A.B., University of Minnesota, 1924; Ph.D., 1928.

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

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

EMERITI

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

LEO LOEB *Professor Emeritus of Pathology*
 M.D., University of Zurich, 1896.

JOSEPH ERLANGER *Professor Emeritus of Physiology and Head of the*
Department
 B.S., University of California, 1895; M.D., Johns Hopkins University, 1899;
 LL.D., University of California, 1932; Sc.D., University of Pennsylvania, 1936;
 Sc.D., University of Wisconsin, 1936; Sc.D., University of Michigan, 1937.

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

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

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

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

WILLARD BARTLETT *Professor Emeritus of Clinical Surgery*
 A.B., Illinois College, 1892; A.M., 1898; D.Sc., 1926; M.D., Marion Sims Col-
 lege of Medicine, 1895.

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

FREDERICK ENO WOODRUFF *Associate Professor Emeritus of Clinical*
Ophthalmology
 M.D., Missouri Medical College, 1897; A.B., Washington University, 1923.

WALTER BAUMGARTEN² *Assistant Professor Emeritus of Clinical*
Medicine
 A.B., Johns Hopkins University, 1894; M.D., St. Louis Medical College, 1896.

¹ Arranged in groups in order of appointment, as of January 1, 1946.

² Deceased August 23, 1945.

* In Military Service.

** On leave in government war service.

- LOUIS HENRY HEMPELMANN . *Assistant Professor Emeritus of Clinical Medicine*
M.D., St. Louis Medical College, 1896.
- ADOLPH GEORGE SCHLOSSSTEIN . . . *Assistant Professor Emeritus of Clinical Obstetrics and Gynecology*
M.D., St. Louis Medical College, 1894.
- THOMAS B. POTE *Lecturer Emeritus in Pathology*
D.V.S., McGill University, 1892; M.D., Washington University, 1902.

PROFESSORS

- PHILIP ANDERSON SHAFFER . . *Professor of Biological Chemistry and Head of the Department*
A.B., West Virginia University, 1900; Ph.D., Harvard University, 1904; Sc.D., University of Rochester, 1939.
- EVARTS AMBROSE GRAHAM . *Bixby Professor of Surgery and Head of the Department*
A.B., Princeton University, 1904; M.D., Rush Medical College, 1907; M.S., (hon.), Yale University, 1928; LL.D., Central College, 1926; Sc.D., University of Cincinnati, 1927; Sc.D., Princeton University, 1929; Sc.D., Western Reserve University, 1931; Sc.D. (hon.), University of Pennsylvania, 1940; Sc.D. (hon.), University of Chicago, 1941; F.R.C.S. (hon.), 1943; Sc.D. (hon.), McGill University, 1944.
- OTTO HENRY SCHWARZ *Professor of Clinical Obstetrics and Gynecology*
M.D., Washington University, 1913.
- SHERWOOD MOORE *Professor of Radiology and Head of the Department*
M.D., Washington University, 1905.
- EDMUND VINCENT COWDRY . . *Professor of Anatomy and Head of the Department*
B.A., University of Toronto, 1909; Ph.D., University of Chicago, 1912.
- JACQUES JACOB BRONFENBRENNER . . . *Professor of Bacteriology and Immunology and Head of the Department*
Ph.D., Columbia University, 1912; Dr.P.H., Harvard University, 1919.
- GEORGE HOLMAN BISHOP *Professor of Biophysics*
A.B., University of Michigan, 1912; Ph.D., University of Wisconsin, 1920.
- CARL F. CORI . . *Professor of Pharmacology and Biological Chemistry and Head of the Department of Pharmacology*
M.D., University of Prague, 1920.
- LAWRENCE TYLER POST . . *Professor of Clinical Ophthalmology and Head of the Department*
A.B., Yale University, 1909; M.D., Johns Hopkins University, 1913.
- ALEXIS FRANK HARTMANN . *Professor of Pediatrics and Head of the Department*
B.S., Washington University, 1919; M.S., 1921; M.D., 1921.
- JEAN VALJEAN COOKE *Professor of Pediatrics*
A.B., West Virginia University, 1903; A.B., Yale University, 1904; M.D., Johns Hopkins University, 1908.
- CARLYLE FERDINAND JACOBSEN *Professor of Medical Psychology*
A.B., University of Minnesota, 1924; Ph.D., 1928.
- ROBERT ALLAN MOORE . *Edward Mallinckrodt Professor of Pathology and Head of the Department*
B.A., Ohio State University, 1921; M.S., 1927; M.D., 1928; Ph.D., Western Reserve University, 1930.
- WILLARD MYRON ALLEN . *Professor of Obstetrics and Gynecology and Head of the Department*
B.S., Hobart College, 1926; M.A., University of Rochester, 1929; M.D., 1932; Sc.D. (hon.), Hobart College, 1940.

- THEODORE EDWIN WALSH** . *Professor of Otolaryngology and Head of the Department*
B.A., Cambridge University, 1921; M.R.C.S., L.R.C.P., London, 1925.
- WILLIAM BARRY WOOD, JR.** . *Busch Professor of Medicine and Head of the Department*
A.B., Harvard University, 1932; M.D., Johns Hopkins University, 1936.
- EDWIN FRANCIS GILDEA** . . *Professor of Psychiatry and Head of the Department of Neuropsychiatry*
A.B., Colorado College, 1920; M.D., Harvard University, 1924.
- ARTHUR LLEWELYN HUGHES** *Consulting Physicist*
B.Sc., Liverpool University, 1906; M.Sc., 1907; B.A., Cambridge University, 1910; D.Sc., 1912.
- BORDEN SMITH VEEDER** *Professor of Clinical Pediatrics*
M.D., University of Pennsylvania, 1907.
- ERNEST SACHS** *Professor of Clinical Neurological Surgery*
A.B., Harvard University, 1900; M.D., Johns Hopkins University, 1904.
- MAJOR GABRIEL SEELIG** *Professor of Clinical Surgery*
A.B., Harvard University, 1896; M.D., Columbia University, 1900.
- WILLIAM EWING SHAHAN** *Professor of Clinical Ophthalmology*
A.B., Washington University, 1901; M.D., 1904; A.M., 1912.
- MALVERN BRYAN CLOPTON** *Professor of Clinical Surgery*
M.D., University of Virginia, 1897.
- MEYER WIENER** *Professor of Clinical Ophthalmology*
M.D., Missouri Medical College, 1896.
- JOHN ALBERT KEY** *Professor of Clinical Orthopedic Surgery*
M.D., Johns Hopkins University, 1918.
- GRANDISON DELANEY ROYSTON** . *Professor of Clinical Obstetrics and Gynecology*
M.D., Washington University, 1907.
- ARTHUR WALTER PROETZ** *Professor of Clinical Otolaryngology*
A.B., Washington University, 1910; M.D., 1912.
- DALTON KEATS ROSE** . . . *Professor of Clinical Genitourinary Surgery*
M.D., Washington University, 1915.
- T. K. BROWN** *Professor of Clinical Obstetrics and Gynecology*
B.S., University of Wisconsin, 1921; M.S., 1922; M.D., Washington University, 1924.
- HARRY LOUIS ALEXANDER** *Professor of Clinical Medicine*
A.B., Williams College, 1910; M.D., Columbia University, 1914.
- EDWARD GRAFTON MCGAVRAN** *Professor of Public Health Administration*
A.B., Butler University, 1924; M.D., Harvard University, 1928; M.P.H., 1934.
- E. GURNEY CLARK** . *Professor of Preventive Medicine and Head of the Department of Public Health and Preventive Medicine*
A.B., Vanderbilt University, 1927; M.D., 1931; M.P.H., Johns Hopkins University, 1936; Dr. P.H., 1944.
- EDGAR H. NORRIS**¹ *Visiting Professor of Anatomy*
B.S., University of Minnesota, 1915; A.M., 1916; M.B., 1918; M.D., 1919.
- RICHARD LOCKWOOD WEBB**² *Visiting Professor of Anatomy*
B.S., University of Illinois, 1924; M.S., 1926; Ph.D., 1931.
- VIRGIL LOEB** *Lecturer in Stomatology*
A.B., University of Missouri, 1903; M.D., St. Louis University, 1906; D.D.S., 1906.
- FRANK RICHARD BRADLEY** *Lecturer in Hospital Administration*
M.D., Washington University, 1928.

¹ July 1, 1945 to October 31, 1945.

² October 1 to June 30, 1946.

ASSOCIATE PROFESSORS

- WARREN PHILO ELMER** . . . *Associate Professor of Clinical Medicine*
M.D., University of Michigan, 1903; B.S., St. Louis University, 1906.
- ***HARVEY LESTER WHITE** . . . *Associate Professor of Physiology*
B.S., Washington University, 1918; M.D., 1920.
- WILLIAM FREDERIC HARDY** . . . *Associate Professor of Clinical Ophthalmology*
M.D., Washington University, 1901.
- GLOVER H. COPHER** . . . *Associate Professor of Clinical Surgery*
A.B., University of Missouri, 1916; M.D., Washington University, 1918.
- WILLIAM HARWOOD OLMSTED** . *Associate Professor of Clinical Medicine*
B.S., Coe College, 1909; M.D., Johns Hopkins University, 1913.
- MILDRED TROTTER** . . . *Associate Professor of Anatomy*
A.B., Mount Holyoke College, 1920; M.S., Washington University, 1921; Ph.D., 1924.
- ARTHUR SCOTT GILSON, JR.** . . . *Associate Professor of Physiology*
B.S., Dartmouth College, 1919; A.M., Harvard University, 1922; Ph.D., 1924.
- DREW WILLIAM LUTEN** . . . *Associate Professor of Clinical Medicine*
A.B., University of Kentucky, 1901; M.D., Johns Hopkins University, 1911.
- JOSEPH WILLIAM LARIMORE** . *Associate Professor of Clinical Medicine*
A.B., DePauw University, 1908; M.D., Washington University, 1913.
- JAMES LEE O'LEARY** . . . *Associate Professor of Neuroanatomy and of Neurology*
B.S., University of Chicago, 1921; Ph.D., 1923; M.D., 1931.
- ROBERT ELMAN** . . . *Associate Professor of Clinical Surgery*
B.S., Harvard University, 1919; M.D., Johns Hopkins University, 1922.
- PETER HEINBECKER** . . . *Associate Professor of Clinical Surgery*
B.A., McGill University, 1918; M.D., 1921.
- ***JAMES BARRETT BROWN** . . *Associate Professor of Clinical Surgery*
M.D., Washington University, 1923.
- HUGH McCULLOCH** . . . *Associate Professor of Clinical Pediatrics*
A.B., University of Arkansas, 1908; M.D., Johns Hopkins University, 1912.
- HELEN TREDWAY GRAHAM** . . *Associate Professor of Pharmacology*
A.B., Bryn Mawr College, 1911; A.M., 1912; Ph.D., University of Chicago, 1915.
- MARTIN HAYWARD POST** . . . *Associate Professor of Clinical Ophthalmology*
A.B., Amherst College, 1903; M.D., Johns Hopkins University, 1912.
- NATHAN ANTHONY WOMACK** . *Associate Professor of Clinical Surgery*
B.S., University of North Carolina, 1922; M.D., Washington University, 1924.
- ***LEONARD THOMPSON FURLOW** . . . *Associate Professor of Clinical Neurological Surgery*
B.S., Emory University, 1923; M.D., 1925.
- ****ROBERT LYSTER THORNTON** . *Physicist in Charge of the Cyclotron of the Radiological Institute*
B.S., McGill University, 1930; Ph.D., 1936.
- FRENCH KELLER HANSEL** . . . *Associate Professor of Clinical Otolaryngology*
M.D., St. Louis University, 1918; M.S., University of Minnesota, 1923.
- ARTHUR MAXWELL ALDEN** . . . *Associate Professor of Clinical Otolaryngology*
A.B., University of Oklahoma, 1907; A.M., 1909; M.D., St. Louis University, 1915.

- RICHARD SIMON WEISS** . *Associate Professor of Clinical Dermatology and Acting Head of the Department of Dermatology*
M.D., Washington University, 1909.
- JAMES BRAY COSTEN** . *Associate Professor of Clinical Otolaryngology*
A.B., University of Arkansas, 1916; M.D., Washington University, 1922.
- CECIL MARVIN CHARLES** *Associate Professor of Anatomy and Assistant in Clinical Medicine*
A.B., University of Kentucky, 1926; A.M., 1927; Ph.D., Washington University, 1929; M.D., 1933.
- CARL VERNON MOORE** *Associate Professor of Medicine*
A.B., Washington University, 1928; M.D., 1932.
- FREDERICK OSCAR SCHWARTZ** *Associate Professor of Clinical Ophthalmology*
M.D., Washington University, 1910.
- **MARGARET GLADYS SMITH** *Associate Professor of Pathology*
A.B., Mount Holyoke College, 1918; M.D., Johns Hopkins University, 1922.
- GERTY T. CORI** . *Associate Professor of Research Biological Chemistry and Pharmacology*
M.D., University of Prague, 1920.
- *SAMUEL HAROLD GRAY** *Associate Professor of Pathology*
A.B., Columbia University, 1920; M.D., 1923.
- MARTIN KAMEN** . . *Associate Professor of Biological Chemistry and Chemist to the Mallinckrodt Radiological Institute*
B.S., University of Chicago, 1930; Ph.D., 1936.
- RUSSELL JOHN BLATTNER** *Associate Professor of Pediatrics*
A.B., Washington University, 1929; M.D., 1933.
- WALTER PAGE COVELL** *Associate Professor of Anatomy in Otolaryngology*
B.S., Oregon State College, 1921; M.S., 1923; Ph.D., University of Minnesota, 1926; M.D., University of Chicago, 1933.
- HENRY GERARD SCHWARTZ** *Associate Professor of Neurological Surgery*
A.B., Princeton University, 1928; M.D., Johns Hopkins University, 1932.

ASSISTANT PROFESSORS

- ARTHUR OSCAR FISHER** *Assistant Professor of Clinical Surgery*
A.B., University of Wisconsin, 1905; M.D., Johns Hopkins University, 1909.
- FRANK HENRY EWERHARDT** *Assistant Professor of Physical Therapeutics*
M.D., Washington University, 1910.
- MILLARD FILLMORE ARBUCKLE** *Assistant Professor of Clinical Otolaryngology*
M.D., Washington University, 1909.
- HAROLD ATEN BULGER** *Assistant Professor of Clinical Medicine*
B.S., Ohio State University, 1916; M.D., Harvard University, 1920.
- JOHN VINCENT LAWRENCE** . *Assistant Professor of Clinical Medicine*
B.S., University of Chicago, 1917; M.D., Rush Medical College, 1924.

** On leave of absence for National Service, July 1 to October 1, 1945.

- DUFF SHEDERIC ALLEN** . . . *Assistant Professor of Clinical Surgery*
M.D., Washington University, 1919
- ETHEL RONZONI BISHOP** . *Assistant Professor of Biological Chemistry*
B.S., Mills College, 1913; A.M., Columbia University, 1914; Ph.D., University
of Wisconsin, 1922.
- FRANK POWELL MCNALLEY** . *Assistant Professor of Clinical Obstetrics
and Gynecology*
B.S., Washington University, 1915; M.D., 1917.
- CHARLES DARRELL O'KEEFE** . *Assistant Professor of Clinical Obstetrics
and Gynecology*
A.B., University of Missouri, 1916; M.D., Washington University, 1918.
- LAWRENCE DORLAND THOMPSON** . . . *Assistant Professor of Clinical
Medicine*
B.S., Rutgers College, 1917; M.D., Cornell University, 1922.
- ***ISAAC DEE KELLEY, JR.** *Assistant Professor of Clinical Otolaryngology*
B.S., St. Louis University, 1903; M.D., 1908.
- ANDREW BLUCHER JONES** . *Assistant Professor of Clinical Neurology*
M.D., Vanderbilt University, 1916.
- RICHARD PADDOCK** . . *Assistant Professor of Clinical Obstetrics and
Gynecology*
M.D., Washington University, 1921.
- CLARENCE HARRISON CREGO, JR.** . . . *Assistant Professor of Clinical
Orthopedic Surgery*
B.S., Union University, 1921; M.D., University of Michigan, 1923.
- OTTO ST. CLAIR KREBS** . *Assistant Professor of Clinical Obstetrics and
Gynecology*
B.S., Washington University, 1917; M.D., 1919.
- BENNETT YOUNG ALVIS** *Assistant Professor of Clinical Ophthalmology*
B.S., St. Louis University, 1916; M.D., 1918.
- WILLIAM BRYAN KOUNTZ** . . *Assistant Professor of Clinical Medicine*
M.D., Washington University, 1926.
- ARCHIE DREYFUS CARR** . . *Assistant Professor of Clinical Neurology*
B.S., Washington University, 1918; M.D., 1921.
- PHILIP LEONARD VARNEY** . . *Assistant Professor of Bacteriology and
Immunology*
B.S., Oregon Agricultural College, 1923; M.S., Washington University, 1926;
Ph.D., 1933.
- THEODORE PREWITT BROOKES** *Assistant Professor of Clinical
Orthopedic Surgery*
M.D., Washington University, 1909.
- ROBERT JAMES CROSSEN** . . *Assistant Professor of Clinical Obstetrics
and Gynecology*
A.B., Oberlin College, 1921; M.D., Washington University, 1925.
- JULIUS JENSEN** *Assistant Professor of Clinical Medicine*
M.R.C.S., England, 1922; L.R.C.P., University of London, 1923; Ph.D., Uni-
versity of Minnesota, 1929.
- ROGERS DEAKIN** *Assistant Professor of Clinical Genitourinary
Surgery*
M.D., Washington University, 1922.
- CYRIL MITCHELL MACBRYDE**¹ . *Assistant Professor of Clinical Medicine*
A.B., Washington University, 1926; M.D., Harvard University, 1930.

¹ Resigned December 31, 1945.

- WENDELL GARRISON SCOTT . *Assistant Professor of Clinical Radiology*
A.B., University of Colorado, 1928; M.D., Washington University, 1932.
- *VAL BEYER SATTERFIELD . *Assistant Professor of Clinical Psychiatry*
B.S., Washington University, 1922; M.D., 1924.
- ALFRED D. HERSHEY . . . *Assistant Professor of Bacteriology and
Immunology*
Ph.D., Michigan State College, 1934.
- *LOUIS LEON TUREEN . . . *Assistant Professor of Clinical Neurology*
B.S., Washington University, 1925; M.D., 1927.
- *FREDERICK AUGUSTUS JOSTES . . . *Assistant Professor of Clinical
Orthopedic Surgery*
B.S., Washington University, 1918; M.D., 1920.
- GEORGE DAVID KETTELKAMP . *Assistant Professor of Clinical Medicine*
A.B., Central Wesleyan College, 1910; M.D., Washington University, 1914.
- WILLIAM MAHLON JAMES . . . *Assistant Professor of Clinical
Ophthalmology*
B.S., Drury College, 1923; M.D., Washington University, 1926.
- ALFRED J. CONE . . . *Assistant Professor of Clinical Otolaryngology*
B.S., State University of Iowa, 1921; M.D., 1923; M.S., 1926.
- JOHN E. HOBBS . . . *Assistant Professor of Clinical Obstetrics and
Gynecology*
A.B., Southwest Missouri State Teachers' College, 1923; M.D., Washington
University, 1927.
- *HUBERT BEAUFORT PEUGNET . . . *Assistant Professor of Physiology*
A.B., St. Louis University, 1924; M.D., 1930.
- *EDGAR ALLAN BLAIR . . . *Assistant Professor of Physiology*
A.B., Vanderbilt University, 1925; M.S., 1927; Ph.D., Washington University,
1938.
- HARRY NAYLOR GLICK . *Assistant Professor of Clinical Otolaryngology*
A.B., Cornell University, 1916; M.D., St. Louis University, 1922.
- CARL REINARD WEGNER . . *Assistant Professor of Clinical Obstetrics
and Gynecology*
A.B., North Central College, 1922; M.D., University of Nebraska, 1926.
- *DANIEL WILBUR MYERS¹ . . *Assistant Professor of Clinical Medicine*
A.B., University of Michigan, 1929; M.D., 1932.
- SAMUEL RUSSELL WARSON . . . *Assistant Professor of Psychiatry*
A.B., McGill University, 1930; M.D., 1934.
- *AVERY PECK ROWLETTE . . *Assistant Professor of Clinical Surgery*
M.D., Washington University, 1929.
- ARDA ALDEN GREEN² . *Assistant Professor of Biological Chemistry and
Research Associate in Pharmacology*
A.B., University of California, 1921; M.D., Johns Hopkins University, 1927.
- LEE DE CADY . . . *Assistant Professor of Clinical Medicine*
A.B., University of Missouri, 1918; A.M., Washington University, 1921; M.D.,
1922.
- *DUDLEY REEVES SMITH . . *Assistant Professor of Clinical Obstetrics
and Gynecology*
M.D., Washington University, 1923.

¹ Resigned December 4, 1945.² Resigned August 15, 1945.

- *SAMUEL DAVID SOULE . . . *Assistant Professor of Clinical Obstetrics and Gynecology*
M.D., Washington University, 1928.
- A. NORMAN ARNESON . . . *Assistant Professor of Clinical Radiology and of Clinical Obstetrics and Gynecology*
B.S., Texas Christian University, 1924; M.D., Washington University, 1928.
- FRANKLIN EDWARD WALTON *Assistant Professor of Surgery*
B.S., Shurtleff College, Kansas, 1923; M.D., Washington University, 1927.
- MELVIN ANDREW ROBLEE . . . *Assistant Professor of Clinical Obstetrics and Gynecology*
B.S., Washington University, 1923; M.D., 1925.
- BARRETT LEARNED TAUSSIG . . . *Assistant Professor of Clinical Medicine*
A.B., Harvard University, 1928; M.D., Washington University, 1932.
- *BRIAN BREWER BLADES¹ . . . *Assistant Professor of Clinical Surgery*
A.B., University of Kansas, 1928; M.D., Washington University, 1932.
- ROBERT WILSON BARTLETT . . . *Assistant Professor of Clinical Surgery and Instructor in Anatomy*
B.S., University of Michigan, 1926; M.D., 1930.
- LOUIS T. BYARS *Assistant Professor of Clinical Surgery*
B.S., University of Arkansas, 1928; M.D., Washington University, 1932.
- LAUREN VEDDER ACKERMAN *Assistant Professor of Pathology*
A.B., Hamilton College, 1927; M.D., University of Rochester, 1932.
- IRWIN LEVY *Assistant Professor of Clinical Neurology*
A.B., Cornell University, 1927; M.D., St. Louis University, 1931; Med. Sci. D. Columbia University, 1935.
- JOHN ALBION SAXTON *Assistant Professor of Pathology*
A.B., Yale University, 1929; M.D., Washington University, 1934.
- JOHN FULLER TAYLOR . . . *Assistant Professor of Biological Chemistry*
A.B., Cornell University, 1933; Ph.D., Johns Hopkins University, 1937.
- LLEWELYN SALE *Assistant Professor of Clinical Medicine*
M.D., Washington University, 1907.
- WALTER FISCHER *Assistant Professor of Clinical Medicine*
A.B., Harvard University, 1902; M.D., Washington University, 1905.
- ADOLPH HENRY CONRAD . . . *Assistant Professor of Clinical Dermatology*
M.D., St. Louis University, 1906.
- ARTHUR EDGAR STRAUSS . . . *Assistant Professor of Clinical Medicine*
S.B., Harvard University, 1912; M.D., 1917.
- SAMUEL BECKER GRANT . . . *Assistant Professor of Clinical Medicine*
B.S., Washington University, 1918; M.D., 1920.
- ALFRED GOLDMAN *Assistant Professor of Clinical Medicine*
A.B., Washington University, 1916; M.D., 1920.
- HOWARD ROMMEL HILDRETH *Assistant Professor of Clinical Ophthalmology*
M.D., Washington University, 1928.
- CARL CONRAD BEISBARTH *Assistant Professor of Clinical Ophthalmology*
B.S., St. Louis University, 1924; M.D., 1926.

¹ Resigned December 31, 1945.

- HIROMU TSUCHIYA *Assistant Professor of Parasitology*
A.B., University of Missouri, 1913; Sc.D., Johns Hopkins University, 1930.
- *PAUL OONK HAGEMAN . . . *Assistant Professor of Clinical Medicine*
A.B., Washington University, 1930; M.D., 1934.
- CARL GAYLER HARFORD . . . *Assistant Professor of Medicine and of
Preventive Medicine*
A.B., Amherst College, 1923; M.D., Washington University, 1933.
- JOHN RUSSELL SMITH *Assistant Professor of Medicine*
A.B., University of Wisconsin, 1931; A.M., 1932; M.D., Washington University,
1934.
- HANS BARSO MOLHOLM *Assistant Professor of Psychiatry*
A.B., Harvard University, 1926; M.D., 1931.
- MALCOLM M. COOK *Assistant Professor of Preventive Medicine*
B.S., Emory University, 1930; M.D., 1933.
- J. G. PROBSTEIN *Assistant Professor of Clinical Surgery*
M.D., Loyola University, 1917.
- CLINTON WELSH LANE . *Assistant Professor of Clinical Dermatology*
A.B., St. Mary's College (Kansas), 1916; M.D., St. Louis University, 1921.
- H. RELTON MCCARROLL . . . *Assistant Professor of Clinical Orthopedic
Surgery*
A.B., Ouachita College, 1927; M.D., Washington University, 1931.
- EDWARD MASSIE *Assistant Professor of Clinical Medicine*
A.B., Washington University, 1931; M.D., 1935.
- *JUSTIN JOSEPH CORDONNIER *Assistant Professor of Clinical
Genitourinary Surgery*
B.S., Washington University, 1926; M.D., 1928.
- *EUGENE MYRON BRICKER . . . *Assistant Professor of Clinical Surgery*
M.D., Washington University, 1934.
- JOHN FRANKLIN PATTON *Assistant Professor of Clinical
Genitourinary Surgery*
M.D., Washington University, 1928.
- EDWARD LAWRENCE KEYES, JR. *Assistant Professor of Clinical
Surgery*
B.S., Princeton University, 1921; M.D., Cornell University, 1926.
- JOHN HOWARD VAN DYKE *Assistant Professor of Anatomy*
A.B., Colgate University, 1935; M.S., University of New Hampshire, 1937;
Ph.D., Cornell University, 1941.
- GEORGE SASLOW *Assistant Professor of Psychiatry*
B.S., New York University, 1926; Ph.D., 1931; M.D., Harvard University, 1940.
- BARNET MORTIMER LEVY *Associate in Pathology*
A.B., University of Pennsylvania, 1933; D.D.S., 1942.
- VIRGIL COLE SCOTT *Assistant Professor of Preventive Medicine
and of Medicine*
B.S., Hobart College, 1932; M.D., University of Rochester, 1937.
- BEN HARLAN SENTURIA . . . *Assistant Professor of Otolaryngology.*
A.B., Washington University, 1931; M.D., 1935.
- LEO J. WADE . . . *Assistant Professor of Medicine and of Preventive
Medicine, Physician in Charge of Student Health Service*
A.B., Washington University, 1933; M.D., 1938.
- FRANCIS EDMUND HUNTER . . . *Assistant Professor of Pharmacology*
B.S., Mount Union College, 1933; Ph.D., University of Rochester, 1941.
- SIDNEY COLOWICK *Assistant Professor of Pharmacology*
B.S., Washington University, 1936; M.S., 1939; Ph.D., 1942.

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

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

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

CONRAD S. SOMMER¹ *Assistant Professor of Clinical Psychiatry*
B.S., University of Illinois, 1929; M.S., 1931; M.D., 1932.

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

GERALDINE LERMIT² *Lecturer in Occupational Therapy*
A.B., Wellesley College, 1906; Ph.M., University of Chicago, 1907.

RUTH ELIZABETH MARTIN . . . *Dentist to the Department of Pediatrics*
D.D.S., Washington University, 1923.

RESEARCH ASSOCIATES

VALENTINA SUNTZEFF *Research Associate in Cytology*
M.D., Women's Medical Institute, Petrograd, Russia, 1917.

WILLIAM LOYAL SIMPSON *Research Associate in Cytology*
S.B., University of Chicago, 1934; Ph.D., 1938.

WILLIAM CRAMER³ *Research Associate in Cytology*
Ph.D., University of Berlin, 1900; D.Sc., University of Edinburgh, 1907;
M.R.C.S., L.R.C.P., London, 1916

*THEODORE E. WEICHSELBAUM . . . *Research Associate in Bacteriology*

*MARY LUCY MILLER⁴ *Research Associate in Pathology*
A.B., Syracuse University, 1927; M.A., Columbia University, 1929; Ph.D., 1934.

KURT SALOMON . . . *Research Associate in Psychiatry and in Radiology*
M.D., University of Frankfurt, 1926; Ph.D., University of Freiburg, 1928.

SIDNEY FREDERICK VELICK⁵ . . . *Research Associate in Pharmacology*
B.S., Wayne University, 1934; M.S., University of Michigan, 1936; Ph.D., 1938.

INSTRUCTORS

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

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

CHARLES HERMANN EYERMANN . . . *Instructor in Clinical Medicine*
M.D., St. Louis University, 1911.

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

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

¹ Effective August 1, 1945.

² July 1, 1945 to January 31, 1946.

³ Deceased August 10, 1945.

⁴ Resigned July 31, 1945.

⁵ Effective August 1, 1945.

- PAUL EDWARD KUBITSCHKEK . . . *Instructor in Clinical Child Psychiatry and in Clinical Pediatrics*
B.S., Creighton University, 1918; M.D., 1922; D.Sc., University of Pennsylvania, 1928.
- WAYNE ARTHUR RUPE *Instructor in Clinical Pediatrics*
A.B., University of Missouri, 1916; M.D., Washington University, 1918.
- HIRAM SHAW LIGGETT *Instructor in Clinical Medicine*
M.D., Washington University, 1920.
- CHARLES WILLIAM DUDEN *Instructor in Clinical Medicine*
M.D., Washington University, 1926.
- IRENE KOECHIG FREIBERG *Instructor in Biological Chemistry*
A.B., Washington University, 1912; A.M., 1913.
- JOSEPH FRANCIS BREDECK *Instructor in Clinical Medicine and Lecturer in Public Health*
A.B., Christian Brothers College, 1910; M.D., Washington University, 1914; D.P.H., University of Pennsylvania, 1917.
- ANTHONY BIGELOW DAY *Instructor in Clinical Medicine*
B.S., Harvard University, 1913; M.D., Washington University, 1919.
- *HOWARD A. RUSK *Instructor in Clinical Medicine*
A.B., University of Missouri, 1923; M.D., University of Pennsylvania, 1925.
- **ANNE MACGREGOR PERLEY . . . *Instructor in Biological Chemistry in Pediatrics*
A.B., Grinnell College, 1927; A. M., University of Nebraska, 1929.
- OSCAR CHARLES ZINK *Instructor in Clinical Radiology*
M.D., Washington University, 1921.
- JOSEPH HOY SANFORD . . . *Instructor in Clinical Genitourinary Surgery*
M.D., Tulane Medical College, 1908.
- HENRY SPENCE BROOKES, JR. *Instructor in Clinical Surgery*
M.D., Washington University, 1917.
- CARLISS MALONE STROUD *Instructor in Clinical Medicine*
B.S., University of Mississippi, 1924; M.D., Washington University, 1926.
- LOUIS F. AITKEN *Instructor in Clinical Medicine*
B.S., University of Illinois, 1923; M.D., Washington University, 1927.
- J. TED JEAN *Instructor in Clinical Medicine*
A.B., Indiana University, 1924; M.D., Washington University, 1928.
- LAWRENCE GOLDMAN *Instructor in Clinical Pediatrics*
A.B., Washington University, 1924; M.D., 1928.
- GROVER BERNARD LIESE *Instructor in Clinical Obstetrics and Gynecology*
A.B., Real-Gymnasium, Cassel, Germany, 1910; M.D., University of Heidelberg, 1918.
- WILLIAM GOODWIN COLEMAN . . . *Instructor in Clinical Dermatology*
B.S., Washington University, 1917; M.D., 1919.
- ROBERT VOTAW *Instructor in Clinical Otolaryngology*
B.S., State University of Iowa, 1927; M.D., 1929.
- MARTIN FEENEY ENGMAN, JR. . . . *Instructor in Clinical Dermatology*
M.D., Washington University, 1928.
- *PAUL WILLIAM PREISLER *Instructor in Biological Chemistry*
B.S., Washington University, 1923; M.S., 1925; Ph.D., 1927.

- *LEON BROMBERG *Instructor in Clinical Medicine*
A.B., Rice Institute, 1920; M.D., Vanderbilt University, 1924.
- EDWIN HENRY ROHLFING *Instructor in Clinical Pediatrics*
M.D., Washington University, 1919.
- MAX DEUTCH *Instructor in Clinical Pediatrics*
M.D., Washington University, 1926.
- FREDERICK AUGUST JACOBS *Instructor in Clinical Pediatrics*
B.S., Washington University, 1927; M.D., 1928.
- *LEO GOTTLIEB *Instructor in Clinical Medicine*
A.B., University of Kansas, 1928; A.M., 1932; M.D., Washington University, 1932.
- STANLEY LEONARD HARRISON *Instructor in Clinical Pediatrics*
B.S., Washington University, 1928; M.D., 1930.
- JOSEPH CABELL JAUDON *Instructor in Clinical Pediatrics*
A.B., Washington University, 1926; M.D., 1933.
- KEVIN CHARLES MORRIN *Instructor in Clinical Obstetrics and Gynecology*
M.B., B.Ch., National University of Ireland, 1921.
- SOL LONDE *Instructor in Clinical Pediatrics*
B.S., Washington University, 1925; M.D., 1927.
- ADOLPH CHARLES LANGE *Instructor in Clinical Ophthalmology*
B.S., Washington University, 1928; M.D., 1930.
- JAY CRAWFORD *Instructor in Clinical Ophthalmology*
A.B., Mifflintown Academy, 1902; B.S., Spring Garden Institute, 1905; M.D., Temple Medical College, 1906.
- *BRUCE DELOZIER KENAMORE *Instructor in Clinical Medicine*
A.B., Washington University, 1933; M.D., 1935.
- THEODORE EUGENE SANDERS *Instructor in Clinical Ophthalmology*
B.S., University of Nebraska, 1931; M.D., 1933.
- HENRY CLINE ALLEN *Instructor in Pathology and Assistant in Clinical Medicine*
M.D., Washington University, 1933.
- *LILBURN CASPER BOEMER *Instructor in Clinical Otolaryngology*
B.S., St. Louis University, 1923; M.D., 1925.
- JOSEPH GITT *Instructor in Clinical Neurology*
M.D., Washington University, 1930.
- JOSEPH CASTRO EDWARDS *Instructor in Clinical Medicine*
A.B., University of Oklahoma, 1930; M.D., Harvard University, 1934.
- ROBERT MALSEED BELL *Instructor in Clinical Psychiatry*
M.D., St. Louis University, 1928.
- *ELSON BOWMAN HELWIG *Instructor in Pathology*
B.S., Indiana University, 1930; M.D., 1932.
- PAUL MURPHY *Instructor in Clinical Medicine*
M.D., St. Louis University, 1926.
- KEITH SINGLETON WILSON *Instructor in Clinical Medicine*
A.B., Williams College, 1930; M.D., Washington University, 1934.
- *RAYMOND FRANCIS HOLDEN, JR. *Instructor in Clinical Medicine*
B.S., Washington University, 1933; M.D., 1933.

- JOHN WICKHAM SEDDON *Instructor in Clinical Medicine*
Ph.B., Yale University, 1931; M.D., Washington University, 1935.
- KARL FREDERICK KOENIG *Instructor in Clinical Medicine*
B.S., University of Illinois, 1923; M.D., Washington University, 1931.
- *ROBERT WILLIAM ELLIOTT *Instructor in Clinical Medicine*
A.B., Washington University, 1932; M.D., 1936.
- SYDNEY BROWN MAUGHS *Instructor in Clinical Psychiatry*
A.B., Westminster College, 1931; M.D., Washington University, 1935.
- WILLIAM HENRY MEINBERG, JR. . . *Instructor in Clinical Ophthalmology*
B.S., in Medical Science, Washington University, 1932; M.D., 1932.
- *EDWARD SMITH *Instructor in Pathology*
B.S., Indiana University, 1934; M.D., 1938.
- *HEINZ HAFFNER *Instructor in Clinical Surgery*
B.S., University of Arizona, 1931; M.D., Washington University, 1935.
- ZOLA KATHARINE COOPER *Instructor in Pathology*
A.B., Washington University, 1925; M.S., 1926; Ph.D., 1929.
- LOUIS HELMAR JORSTAD *Instructor in Clinical Surgery*
M.D., Washington University, 1924.
- GUERDAN HARDY *Instructor in Clinical Otolaryngology*
M.D., Washington University, 1929.
- LEE WALLACE DEAN, JR. *Instructor in Clinical Otolaryngology*
B.S., Yale University, 1930; M.D., Washington University, 1933.
- *HERBERT M. SMIT *Instructor in Clinical Otolaryngology*
M.D., St. Louis University, 1933.
- *ROBERT W. EVANS *Instructor in Anatomy*
B.S., Virginia Military Institute, 1935; M.D., University of Virginia, 1939.
- *SAMUEL P. HARBISON¹ *Instructor in Surgery*
A.B., Princeton University, 1931; M.D., Cornell University, 1936.
- **HENRY LEWIS BARNETT *Instructor in Pediatrics*
B.S., in Med. Science, Washington University, 1938; M.D., 1938.
- JOHN RAY POWERS *Instructor in Clinical Pediatrics*
M.D., Louisiana State University, 1937.
- **LOUIS HENRY HEMPELMANN, JR. *Instructor in Radiology*
A.B., Washington University, 1934; M.D., 1938.
- MYRON WOODWARD DAVIS *Instructor in Clinical Obstetrics and
Gynecology*
M.D., Washington University, 1925.
- FRANZ JOSEPH ARZT *Instructor in Clinical Obstetrics and Gynecology*
M.D., Washington University, 1926.
- WILLARD CALVIN SCRIVNER *Instructor in Clinical Obstetrics and
Gynecology*
B.S., Washington University, 1928; M.D., 1930.
- JOHN B. O'NEILL *Instructor in Clinical Obstetrics and Gynecology*
M.D., St. Louis University, 1927.
- GEORGE J. L. WULFF, JR. *Instructor in Clinical Obstetrics and
Gynecology*
A.B., Washington University, 1929; M.D., 1933.

¹ Resigned December 10, 1945.

- *HELMAN CHAIM WASSERMAN** . *Instructor in Clinical Obstetrics and Gynecology*
A.B., Johns Hopkins University, 1928; M.D., Washington University, 1932.
- *ARTHUR ROBERT BORTNICK** . . *Instructor in Clinical Obstetrics and Gynecology*
M.D., Washington University, 1935.
- ORA JAMES GIBSON** . *Instructor in Clinical Obstetrics and Gynecology*
A.B., Stanford University, 1929; A.M., 1930; M.D., Washington University, 1933.
- DOROTHY JEANNETTE JONES** *Instructor in Clinical Pediatrics*
A.B., Oberlin College, 1930; M.D., Washington University, 1934.
- CARL AUGUST WATTENBERG** *Instructor in Clinical Genitourinary Surgery*
A.B., University of Kansas, 1934; M.D., 1937.
- STANLEY MILTON LEYDIG¹** . . . *Instructor in Anatomy and in Clinical Orthopedic Surgery*
A.B., State University of Montana, 1930; M.D., Washington University, 1934.
- DAVID C. ROTHMAN** . *Instructor in Clinical Obstetrics and Gynecology*
B.S., in Med. Science, Washington University, 1935; M.D., 1935.
- GORDON SCHOEPFLE** *Instructor in Physiology*
A.B., De Pauw University, 1937; Ph.D., Princeton University, 1940.
- SHEPPARD MATTHEW WALKER** *Instructor in Physiology*
B.S., Western Kentucky State Teachers College, 1932; A.M., 1933; Ph.D., Louisiana State University, 1941.
- CHRISTOPHER CARRUTHERS** *Instructor in Anatomy*
B.S., Syracuse University, 1933; M.S., 1935; Ph.D., State University of Iowa, 1938.
- *RALPH C. POLLOCK, JR.** *Instructor in Clinical Medicine*
A.B., University of California at Los Angeles, 1936; M.D., Stanford University, 1940.
- MARGARET CRANE-LILLIE GILDEA** . . *Instructor in Clinical Psychiatry*
B.S., University of Chicago, 1923; M.D., Yale University, 1936.
- KENNETH FRANKLIN GLAZE** *Instructor in Clinical Medicine*
A.B., University of Missouri, 1917; B.S., St. Louis University, 1923; M.D., 1923.
- GEORGE MANTING** *Instructor in Clinical Dermatology*
M.D., University of Michigan, 1915.
- HERMAN JOHN ROSENFELD** *Instructor in Clinical Medicine*
M.D., University of Munich (Germany), 1923.
- HERBERT BREYFOGLE** *Instructor in Pathology*
A.B., University of Michigan, 1933; M.D., University of Chicago, 1937.
- LEONARD MARVIN BOARD²** *Instructor in Public Health*
B.S. C.E., West Virginia University, 1931.
- ROSEMARY PHILLIPS** *Instructor in Public Health*
R.N., St. Louis City Hospital, 1920; C.P.H., Washington University, 1935; B.S., 1936.
- ALLEN B. POTTER** *Instructor in Clinical Otolaryngology*
A.B., William Jewell College, 1916; M.D., St. Louis University, 1924.

¹ Resigned as Instructor in Anatomy October 31, 1945.

² Resigned August 31, 1945.

- ALBERT CHESTERFIELD STUTZMAN *Instructor in Clinical Otolaryngology*
B.S., Roanoke College, 1927; M.D., University of Virginia, 1931.
- EDWARD WYATT CANNADY *Instructor in Clinical Medicine*
A.B., Washington University, 1927; M.D., 1931.
- DAVID MILLER SKILLING, JR. *Instructor in Clinical Medicine*
B.S., Washington and Jefferson College, 1923; M.D., Washington University, 1928.
- HAROLD SCHEFF *Instructor in Clinical Medicine*
M.D., University of Toronto, 1931.
- *JAMES HOWARD BRYAN *Instructor in Clinical Ophthalmology*
A.B., Washington University, 1932; M.D., 1936.
- JOHN LINSOTT HORNER *Instructor in Clinical Medicine*
A.B., Washington University, 1932; M.D., 1936.
- HARRY EWING WACHTER *Instructor in Clinical Pediatrics*
A.B., Washington University, 1929; M.D., 1933.
- ALFRED SEYMOUR SCHWARTZ *Instructor in Clinical Pediatrics*
M.D., Johns Hopkins University, 1936.
- EDITH C. ROBINSON *Instructor in Clinical Pediatrics*
M.D., Johns Hopkins University, 1932.
- MARSHALL W. KELLY *Instructor in Clinical Surgery*
M.D., Washington University, 1936.
- *MICHAEL MEYER KARL *Instructor in Clinical Medicine*
M.D., University of Louisville, 1938.
- ARTHUR CHARLES BROOKS *Instructor in Clinical Medicine*
B.S., Washington University, 1917; M.D., 1919.
- *JOHN HENRY DOVAL *Instructor in Pediatrics*
A.B., University of California, 1935; M.D., 1939.
- GILBERT BURNETT FORBES *Instructor in Pediatrics*
A.B., University of Rochester, 1936; M.D. 1940.
- *G. O'NEIL PROUD *Instructor in Otolaryngology*
A.B., University of Missouri, 1935; M.D., Washington University, 1939.
- JULIUS WALKER VIEAUX¹ *Instructor in Obstetrics and Gynecology*
B.S., Northwestern University, 1931; M.D., Washington University, 1935.
- ALFRED D. BUCHMUELLER *Instructor in Social Service in Neuropsychiatry*
A.B., Elmhurst College, 1931.
- J. KARL POPPE *Instructor in Surgery*
A.B., Hamilton College, 1933; M.D., University of Rochester, 1937.
- HARRY WILLIAM WIESE *Instructor in Clinical Medicine*
B.S., Washington University, 1920; M.D., 1922.
- DONALD STEWART BOTTOM *Instructor in Clinical Radiology*
A.B., Washington University, 1932; M.D., 1940.
- RICHARD WESLEY MAXWELL *Instructor in Medicine, in Radiology and in Preventive Medicine*
A.B., Greenville College, 1932; M.D., University of Chicago, 1937.

¹ Resigned July 31, 1945.

- CHARLES LEONARD ECKERT *Instructor in Clinical Surgery*
M.D., Washington University, 1939.
- GORDON FAIRLE MOORE *Instructor in Surgery*
B.S., Wilmington College, 1930; M.S., Ohio State University, 1932; M.D., Washington University, 1940.
- JULIUS ELSON *Instructor in Clinical Medicine*
M.D., Washington University, 1928.
- *CARL EDWARD LISCHER *Instructor in Surgery*
A.B., University of California, 1933; M.D., Washington University, 1937.
- FRANK MCDOWELL *Instructor in Clinical Surgery*
A.B., Drury College, 1932; M.D., Washington University, 1936.
- *ALFRED MCKEE LARGE *Instructor in Clinical Surgery*
A.B., University of Toronto, 1933; M.D., 1936.
- MILTON HERMAN MEYERHARDT *Instructor in Clinical Obstetrics and Gynecology*
A.B., University of Missouri, 1927; M.D., St. Louis University, 1929.
- MARION MYER JACOBSEN *Instructor in Psychology*
A.B., University of Minnesota, 1924; Ph.D., 1928.
- WILLIAM THOMAS KIMLIN BRYAN *Instructor in Clinical Otolaryngology*
A.B., Washington University, 1929; M.D., 1933.
- OSCAR PERRY HAMPTON, JR. *Instructor in Clinical Orthopedic Surgery*
M.D., University of Tennessee, 1928.
- HARRY AGRSS *Instructor in Pathology and Assistant in Clinical Medicine*
B.S., Washington University, 1932; M.D., 1932.
- *ARTHUR THOMAS JOHN ESSLINGER *Instructor in Clinical Obstetrics and Gynecology*
M.D., Washington University, 1940.
- SEYMOUR MAURICE MONAT¹ *Instructor in Obstetrics and Gynecology*
A.B., University of Pennsylvania, 1935; M.D., Long Island College of Medicine, 1939.
- WAYNE PULLEY SIRLES *Instructor in Clinical Otolaryngology*
M.D., University of Illinois, 1938.
- MERYL MILES *Instructor in Anatomy*
B.S., University of Wisconsin, 1932; M.S., Washington University, 1944.
- MARTIN SILBERBERG *Instructor in Pathology*
M.D., University of Breslau, 1920.
- DANIEL WALTER BADAL² *Instructor in Psychiatry*
M.D., Western Reserve University, 1937.
- DANIEL BISNO *Instructor in Clinical Ophthalmology*
B.A., University of Wisconsin, 1927; M.D., Johns Hopkins University, 1931.
- RUTH M. SILBERBERG *Instructor in Pathology*
M.D., University of Breslau, 1921.
- KIRK DEIBERT *Instructor in Radiology*
M.D., Temple University, 1937.
- HAROLD K. ROBERTS *Instructor in Clinical Medicine*
A.B., Ohio State University, 1935; M.D., 1939.

¹ July 1, 1945 to March 31, 1946.

² Resigned November 30, 1945.

- ANTHONY KARL BUSCH *Instructor in Clinical Psychiatry*
M.D., St. Louis University, 1937.
- SOL SPIEGELMAN *Instructor in Bacteriology and Immunology*
B.S., College of City of New York, 1940; Ph.D., Washington University, 1944.
- KARL RAMSAY SCHLADEMAN *Instructor in Pathology*
B.S., Washington State College, 1937; M.D. Northwestern University, 1941.
- MERL JOHN CARSON *Instructor in Pediatrics*
A.B., University of North Carolina, 1934; M.D., Vanderbilt University, 1938.
- CYRIL JOSEPH COSTELLO *Instructor in Surgery*
B.S., University of Texas, 1936; M.D., 1939.
- WILLIAM RADY PLATT *Instructor in Pathology and in Radiology*
B.S., University of Maryland, 1936; M.D., 1940.
- THOMAS THALE *Instructor in Psychiatry*
B.S., Loyola University, 1938; M.D., 1940.
- HELEN RELLER GOTTSCHALK *Instructor in Dermatology*
A.B., Washington University, 1938; M.D., 1942.
- ANNE ELIZABETH ROYER¹ *Instructor in Medical Psychology*
A.B., Juniata College, 1928; M.A., Ohio State University, 1942.
- RICHARD GORDON SCOBEE *Instructor in Ophthalmology*
A.B., Rice Institute, 1935; M.D., University of Texas, 1939.
- EARL SUTHERLAND² *Instructor in Pharmacology*
B.S., Washburn College, 1937; M.D., Washington University, 1942.
- R. E. KIOUS² *Instructor in Public Health*
B.S. in Ed., Northwest Missouri State Teachers College, 1933.
- DOROTHY L. FLINT² *Instructor in Occupational Therapy*
- ADA WELLS FORD² *Instructor in Occupational Therapy*
- ROBERT C. KINGSLAND³ *Instructor in Clinical Medicine*
A.B., Washington University, 1933; M.D., 1937.
- JAMES C. HALL⁴ *Instructor in Otolaryngology*
B.S., Southwestern University, 1934; M.D., University of Tennessee, 1937.
- *ROBERT A. HARRIS *Dentist to the Department of Pediatrics*
D.D.S., Washington University, 1933.

LECTURERS

- JOSEPH C. WILLETT *Lecturer in Public Health*
D.V.M., United States Veterinary College, 1920.
- ROY EARL MASON *Lecturer in Clinical Ophthalmology*
M.D., St. Louis University, 1905.
- EDGAR VAN NORMAN EMERY *Lecturer in Psychiatry*
M.B., University of Toronto, 1911; M.D., 1931.
- WILLIAM W. CROWDUS *Lecturer in Medical Jurisprudence*
LL.B., Washington University, 1922.
- JOHN OSCAR BUXELL *Lecturer in Industrial Health*
B.S.Ch.E., Washington University, 1934; M.S., 1936.

¹ Effective August 1, 1945.² Effective November 1, 1945.³ Effective December 1, 1945.⁴ Effective January 1, 1946.

- RAYMOND C. SUNDERMAN *Lecturer in Industrial Health*
M.D., Washington University, 1932.
- ARTHUR LINK KOVEN *Lecturer in Industrial Health*
B.A., New York University, 1936; M.D., Louisiana State University, 1941.
- ALEXANDER EDWARD MURPHY *Lecturer in Dental Health*
D.D.S., University of Toronto, 1921; M.S.P.H., University of Michigan, 1941.
- EARL H. PERRY *Lecturer in Preventive Medicine*
M.D., University of Pennsylvania (MC), 1903.
- SOL RICHARD SILVERMAN *Lecturer in Audiometry*
A.B., Cornell University, 1933; M.S., Washington University, 1938; Ph.D., 1942.

ASSISTANTS

- MAURICE JULIUS LONSWAY *Assistant in Clinical Pediatrics*
B.S., Valparaiso University, 1910; M.D., St. Louis University, 1914.
- OLIVER ABEL, JR. *Assistant in Clinical Medicine*
B.S., Washington University, 1922; M.D., 1923.
- WILLIAM GEORGE BECKE *Assistant in Clinical Medicine*
M.D., Washington University, 1923.
- FRANCIS JOHN CANEPA *Assistant in Clinical Obstetrics and
Gynecology*
M.D., Washington University, 1922.
- HELEN GAGE *Assistant in Clinical Otolaryngology*
B.S., University of Michigan, 1916; M.D., 1918.
- BARBARA STANDISH KENDALL *Assistant in Medical Psychology*
A.B., Radcliffe College, 1913; Ed.M., Harvard University, 1923.
- BERTRAND YOUNKER GLASSBERG *Assistant in Clinical Medicine*
B.S., Washington University, 1923; M.D., 1925.
- *MILTON SMITH *Assistant in Clinical Medicine*
B.S., Washington University, 1928; M.D., 1930.
- IRWIN HERMAN ESKELES *Assistant in Clinical Dermatology*
B.S., Washington University, 1920; M.D., 1922.
- JOSEPH ALOYSIUS BAUER *Assistant in Clinical Pediatrics*
M.D., Washington University, 1926.
- 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.
- LEE BULLEN HARRISON *Assistant in Clinical Medicine*
A.B., University of Utah, 1925; M.D., Washington University, 1927.
- FRANCES H. STEWART *Assistant in Clinical Obstetrics and Gynecology*
M.D., Washington University, 1927.
- HARRY L. THIEME *Assistant in Clinical Orthopedic Surgery*
B.S., St. Louis University, 1922; M.D., 1924.
- KURT MANSBACHER *Assistant in Clinical Medicine*
M.D., Friedrich-Wilhelms University, 1919.
- LESLIE ENDICOTT PATTON *Assistant in Clinical Obstetrics and
Gynecology*
B.S., St. Louis University, 1921; M.D., 1924.

- *PAUL FRANKLIN MAX** *Assistant in Clinical Obstetrics and Gynecology*
B.S., Washington University, 1932; M.D., 1932.
- SIM F. BEAM** *Assistant in Clinical Medicine*
A.B., University of Missouri, 1928; M.D., Washington University, 1932.
- EDMUND BENNETT ALVIS** *Assistant in Clinical Ophthalmology*
M.D., Washington University, 1934.
- MORRIS MOORE** *Mycologist to the Department of Dermatology*
B.S., Boston University, 1928; A.M., Harvard University, 1929; Ph.D., Washington University, 1933.
- HARRY DAVID ROSENBAUM** *Assistant in Clinical Ophthalmology*
M.D., Washington University, 1934.
- OLGA BIERBAUM** *Assistant in Hematology in Medicine*
B.S., in Ed., Ohio State University 1930 .
- HELEN MARGARET AFF** *Assistant in Clinical Pediatrics*
B.S., Washington University, 1934; M.D., 1934.
- *MAURICE BERNARD ROCHE** *Assistant in Clinical Orthopedic Surgery*
M.D., St. Louis University, 1933.
- WILLIAM R. ARROWSMITH** *Assistant in Clinical Medicine*
B.S., Muskingum College, 1930; M.D., Ohio State University, 1938.
- *WILSON GORDON BROWN** *Assistant in Pathology*
A.B., William Jewell College, 1935; M.D., Washington University, 1939.
- S. ALBERT HANSER** *Assistant in Clinical Ophthalmology*
B.S., St. Louis University, 1933; M.D., 1937.
- ROBERT WILSON KELLEY** *Assistant in Clinical Medicine*
A.B., Southwestern College, 1932; M.D., Washington University, 1936.
- *BERNARD SCHWARTZMAN** *Assistant in Clinical Pediatrics*
A.B., Washington University, 1931; M.D., 1935.
- BENJAMIN HYNES CHARLES** *Assistant in Clinical Medicine*
M.B., Ch.B., University of Edinburgh, 1934.
- TRUMAN GUTHRED DRAKE, JR.** *Assistant in Clinical Medicine*
A.B., Washington University, 1929; M.D., 1933.
- HERMAN HUTTO** *Assistant in Clinical Obstetrics and Gynecology*
A.B., University of Alabama, 1932; M.D., Washington University, 1935.
- *JAMES WILLIAM BAGBY** *Assistant in Clinical Dermatology*
A.B., University of Missouri, 1930; B.S., 1931; M.D., Washington University, 1933.
- *MORRIS DAVID MARCUS** *Assistant in Clinical Dermatology*
M.D., Washington University, 1934.
- CARL JACOB ALTHAUS** *Assistant in Clinical Genitourinary Surgery*
M.D., St. Louis University, 1917.
- HARRY CUTLER** *Assistant in Clinical Genitourinary Surgery*
M.D., St. Louis University, 1930.
- HAROLD HENRY FELLER** *Assistant in Clinical Genitourinary Surgery*
M.D., Washington University, 1926.
- JULES H. KOPP** *Assistant in Clinical Genitourinary Surgery*
M.D., University of Arkansas, 1931.

- BURCHARD SIMPSON PRUETT *Assistant in Clinical Surgery*
B.S., Washington University, 1929; M.D., 1929.
- CARL J. HEIFETZ *Assistant in Clinical Surgery*
B.S., Washington University, 1925; M.D., 1929.
- *BRUCE CARSON MARTIN *Assistant in Clinical Surgery*
M.D., Washington University, 1935.
- *LOREN FRANCIS BLANEY *Assistant in Clinical Medicine*
A.B., Washington University, 1934; M.D., 1938.
- ANDY HALL, JR. *Assistant in Clinical Genitourinary Surgery*
M.D., Washington University, 1926.
- VIRGINIA MINNICH¹ *Research Assistant in Hematology in Medicine*
B.S., Ohio State University, 1937; M.S., Iowa State College, 1938.
- JOHN HARRISON WEDIG *Assistant in Clinical Medicine*
M.D., Washington University, 1938.
- *WILLARD TERRILL BARNHART *Assistant in Clinical Genitourinary
Surgery*
A.B., University of Missouri, 1930; B.S., 1931; M.D., Washington University,
1933.
- ADOLPH HENRY CONRAD, JR. *Assistant in Clinical Dermatology*
A.B., Washington University, 1934; M.D., 1938.
- *PHILIP SHANNON MOUNTJOY *Assistant in Clinical Otolaryngology*
A.B., Washington University, 1933; M.D., 1937.
- *ALFRED FLEISHMAN *Assistant in Clinical Medicine*
B.S., Washington University, 1935; M.D., 1935.
- *STANLEY FORREST HAMPTON *Assistant in Clinical Medicine*
A.B., Washington and Lee University, 1930; M.D., Washington University,
1934.
- *VIRGIL OTTO FISH *Assistant in Clinical Surgery*
M.D., Washington University, 1930.
- GERHARD ELIAS GRUENFELD *Assistant in Clinical Surgery*
M.D., Friedrich-Wilhelms University, 1923.
- *PAUL TUPPER HARTMAN *Assistant in Clinical Psychiatry*
A.B., Washington University, 1934; M.D., 1938.
- HAROLD E. FREEDMAN *Assistant in Clinical Medicine*
Ph.B., Yale University, 1929; M.D., Washington University, 1938.
- *THEODOR ENGELMANN KIRCHER, JR. *Assistant in Clinical Medicine*
A.B., Yale University, 1933; M.D., Washington University, 1937.
- *BART NEWTON WHITE *Assistant in Medicine*
B.S., Duke University, 1935; M.D., Vanderbilt University, 1939.
- HUBERT LEE ALLEN *Assistant in Clinical Obstetrics and Gynecology*
A.B., University of Kansas, 1932; M.D., Tulane University, 1936.
- *VILRAY PAPIN BLAIR, JR. *Assistant in Surgery*
M.D., Washington University, 1939.
- RUSSELL J. CRIDER *Rockefeller Foundation Postwar
Assistant in Surgery*
M.D., Washington University, 1940.

¹ On leave of absence November 1 to December 31, 1945.

- ***EDGAR HAYDEN KEYS, JR.** . . . *Assistant in Obstetrics and Gynecology*
A.B., Harvard University, 1935; M.D., Washington University, 1939.
- ***EDWARD HARRY LYMAN** . . . *Assistant in Clinical Otolaryngology*
B.S., Washington University, 1937; M.D., 1937.
- ***JOHN EDWARD MIKSICEK** . . . *Assistant in Clinical Psychiatry*
A.B., Washington University, 1933; B.S., 1937; M.D., 1937.
- JOHN JAMES MODLIN** . . . *Rockefeller Foundation Postwar
Assistant in Surgery*
B.S., University of Nebraska, 1934; M.D., 1938.
- GEORGE E. ROULHAC** . . . *Rockefeller Foundation Postwar
Assistant in Surgery*
M.D., Vanderbilt University, 1939.
- ***WILLIAM CHARLES STAHL**¹ . . . *Assistant in Pathology*
B.S., Virginia Polytechnic Institute, 1931; M.S., Ohio State University, 1932;
M.D., Washington University, 1941.
- ***SYDNEY THURMAN WRIGHT** . . . *Assistant in Medicine*
A.B., Fresno State College, 1935; B.S., Washington University, 1940; M.D.,
1940.
- ***MELVIN B. KIRSTEIN** . . . *Assistant in Clinical Medicine*
B.S., Indiana University, 1930; M.D., 1933.
- MARIANNE KUTTNER** . . . *Assistant in Clinical Pediatrics*
M.D., Johann Wolfgang Goethe University (Frankfurt on Main), 1931.
- ***ROBERT RALPH ANSCHUETZ**¹ . . . *Assistant in Pathology*
M.D., Washington University, 1940.
- ROBERT JEROME COOK** . . . *Assistant in Medicine*
A.B., Washington University, 1937; M.D., 1941.
- FRANCIS RICHARD CROUCH** . . . *Assistant in Clinical Medicine*
A.B., University of Missouri, 1932; M.D., Washington University, 1936.
- ***GLEN PARNELL KALLENBACH** . . . *Assistant in Clinical Medicine*
A.B., University of Missouri, 1938; B.S., in Med., 1938; M.D., Washington
University, 1940.
- DAVID NAFF KERR** . . . *Assistant in Neurology*
A.B., University of Colorado, 1936; M.D., Washington University, 1941.
- ***HENRY PETER LATTUADA** . . . *Assistant in Obstetrics and Gynecology*
M.D., University of Illinois, 1938.
- JOE MARION PARKER** . . . *Assistant in Surgery*
A.B., University of Illinois, 1930; M.S., 1932; M.D., Washington University,
1938.
- HENRY SCHWARZ II** . . . *Assistant in Surgery*
B.S., in Med. Sci., Washington University, 1941; M.D., 1941.
- ***WILLIAM WOODROW STANBRO** . . . *Assistant in Clinical Medicine*
M.D., Washington University, 1938.
- ***HAROLD CUTLER** . . . *Assistant in Otolaryngology*
M.D., Tufts College, 1937.
- ***ARTHUR CHARLES DARROW, JR.** . . . *Assistant in Clinical Medicine*
A.B., Denison University, 1932; M.D., Washington University, 1936.
- ROBERT DEAN MATTIS** . . . *Assistant in Clinical Ophthalmology*
B.S., St. Louis University, 1935; M.D., 1937.

¹ July 1 to October 31, 1945.

- ***ROBERT ERVIN BUCK** *Assistant in Medicine*
B.S., South Dakota State College, 1935; B.S. in Med., University of South Dakota, 1938; M.D., Washington University, 1941.
- ***MINOT PACKER FRYER** *Assistant in Surgery*
A.B., Brown University, 1936; M.D., Johns Hopkins University, 1940.
- ***DAVID GOLDRING** *Assistant in Pediatrics*
A.B., Washington University, 1936; M.D., 1940.
- ***WILLIAM DAVIS HAWKER** *Assistant in Clinical Obstetrics and Gynecology*
B.S., Shurtleff College, 1933; M.D., Washington University, 1938.
- ALBERT INGRAM LANSING** *Assistant in Anatomy*
A.B., University of Pennsylvania, 1937; Ph.D., Indiana University, 1941.
- ***JOHN HENRY MAYER, JR.** *Assistant in Surgery*
M.D., Cornell University, 1939.
- ***BENJAMIN MILDER** *Assistant in Clinical Ophthalmology*
M.D., Washington University, 1939.
- ***WILLIAM ROBERTSON OAKES** *Assistant in Surgery*
M.D., Yale University, 1940.
- ***DAVID BERNARD ROSEHILL** *Assistant in Clinical Ophthalmology*
M.D., University of Toronto, 1935.
- ***SIMON RUSSI** *Assistant in Pathology*
M.D., Royal University of Modena (Italy), 1935.
- ANNE CARLTON TOMPKINS GOETSCH** *Assistant in Medicine*
B.S., Union University, 1938; M.D., Washington University, 1941.
- CHARLES EDWARD GILLILAND** *Assistant in Clinical Medicine*
B.S., University of Texas, 1917; M.D., University of Kansas, 1911.
- ***FRANK W. STEPHENS** *Assistant in Neuropsychiatry*
M.D., Vanderbilt University, 1941.
- ***HAROLD EUGENE EISELE** *Assistant in Surgery*
A.B., University of Texas, 1936; M.D., Johns Hopkins University, 1940.
- ***FREDERICK WILLIAM KLINGE** *Assistant in Surgery*
A.B., University of Missouri, 1938; M.D., Washington University, 1942.
- ***EDWARD OTTO KRAFT, JR.** *Assistant in Surgery*
M.D., Washington University, 1942.
- ***GORDON SPARKS LETTERMAN** *Assistant in Surgery*
A.B., Washington University, 1937; B.S., 1940; M.D., 1941.
- CHARLES ELLSWORTH LOCKHART** *Assistant in Surgery*
A.B., Illinois College, 1938; M.D., Washington University, 1942.
- ***CHARLES BARBER MUELLER** *Assistant in Surgery*
A.B., University of Illinois, 1938; M.D., Washington University, 1942.
- D. ELLIOTT O'REILLY** *Assistant in Surgery*
A.B., Harvard University, 1938; M.D., 1942.
- ***MORDANT EMORY PECK** *Assistant in Surgery*
B.S., University of Michigan, 1937; M.D., Johns Hopkins University, 1941.
- ***WILLIAM GEORGE REESE** *Assistant in Neuropsychiatry*
B.S., University of Idaho, 1938; M.S., 1938; M.D., Washington University, 1942.
- FRANZ ULRICH STEINBERG** *Assistant in Clinical Medicine*
M.D., University of Berne (Switzerland), 1938.

- ANNA REUBENIA DUBACH *Research Assistant in Medicine*
A.B., Bryn Mawr College, 1919; M.S., University of Colorado, 1935; Ph.D., 1938.
- MARY CHAPMAN JOHNSON *Research Assistant in Medicine*
A.B., Washington University, 1938.
- FRANCES RENKO KIMURA . *Assistant in Bacteriology and Immunology*
A.B., University of California, 1937; M.A., 1940.
- SAMUEL J. HAYWARD *Research Assistant in Obstetrics and Gynecology Pathology*
- FLORENCE MARY HEYS *Research Assistant in Pediatrics*
A.B., Washington University, 1924; M.S., 1926; Ph.D., 1930.
- MARY RUTH SMITH *Research Assistant in Medicine*
B.A., Mississippi State College for Women, 1934; M.S., Johns Hopkins School of Hygiene and Public Health, 1940.
- LEWELLYN SALE, JR. *Assistant in Medicine*
A.B., Yale College, 1936; M.D., Washington University, 1940.
- JAMES LYNN MCCRORY *Assistant in Clinical Otolaryngology*
M.D., Baylor University, 1938.
- *HUGH VINCENT ASHLEY, JR. *Assistant in Surgery*
A.B., University of Missouri, 1939; M.D., Washington University, 1943.
- EUNICE ELIZABETH BRYAN *Assistant in Pediatrics*
B.A., Western Reserve University, 1933; M.D., 1937.
- NORMAN RONALD CHAN-PONG *Assistant in Ophthalmology*
M.B.Ch.B., University of Birmingham (England), 1935.
- RUTH SCHREIBER FREEDMAN . . . *Assistant in Clinical Ophthalmology*
A.B., Washington University, 1938; M.D., 1942.
- MERTIN D. HATCH¹ *Assistant in Surgery*
B.A., University of Washington, 1938; B.S., 1939; M.D., Harvard University, 1943.
- *R. LEONARD KEMLER *Assistant in Surgery*
A.B., Yale University, 1939; M.D., 1943.
- WILLIAM H. MASTERS¹ *Assistant in Obstetrics and Gynecology*
B.S., Hamilton College, 1938; M.D., University of Rochester, 1943.
- *ALLYN JAY MCDOWELL *Assistant in Surgery*
B.S., Drury College, 1939; M.D., Washington University, 1943.
- *JAMES LOUIS PETRY *Assistant in Surgery*
A.B., University of Missouri, 1940; B.S., 1941; M.D., Washington University, 1943.
- RALPH B. WOOLF *Assistant in Obstetrics and Gynecology*
B.S., Massachusetts Institute of Technology, 1935; M.D., University of Rochester, 1939.
- ISRAEL JEROME FLANCE *Assistant in Clinical Medicine*
A.B., Washington University, 1931; M.D., 1935.
- *E. NORRIS ROBERTSON *Assistant in Clinical Ophthalmology*
A.B., University of Kansas, 1933; M.D., Washington University, 1937.
- FRANCIS ROSS MCFADDEN¹ . . . *Assistant in Obstetrics and Gynecology*
A.B., State University of Iowa, 1940; M.D., 1943.

¹ July 1, 1945 to March 31, 1946.

- DAVID ENGLISH SMITH, JR.¹ *Assistant in Pathology*
A.B., Central College, 1941; M.D., Washington University, 1944.
- LUCILLE L. SPITZ² *Assistant in Neuropsychiatry (Psychologist)*
A.B., Wellesley College, 1937; Ed.M., Harvard University, 1940.
- NORMA JEAN PETERSON³ *Research Assistant in Pathology*
A.B., Coe College, 1941.
- DAVID LE GRAND¹ *Assistant in Neuropsychiatry*
B.S., University of Washington, 1938; M.D., Washington University, 1944.
- DAVID BLANCHET¹ *Assistant in Obstetrics and Gynecology
and in Surgery*
M.D., University of Rochester, 1943.
- DOROTHY MILDRED CASE¹ *Assistant in Pediatrics*
M.D., Washington University, 1943.
- ALFRED MILLS DECKER, JR.¹ *Assistant in Surgery*
A.B., University of Rochester, 1940; M.D., 1943.
- YASUYUKI FUKUSHIMA¹ *Assistant in Surgery*
B.S., University of Hawaii, 1940; M.D., Washington University, 1943.
- LOUIS AUGUST GOTTSCHALK¹ *Assistant in Neuropsychiatry*
A.B., Washington University, 1940; M.D., 1943.
- WILLIAM M. MUNDY² *Research Assistant in Medicine*
A.B., University of Michigan, 1939; M.D., Harvard University, 1943.
- PHILIP T. SHAHAN *Assistant in Ophthalmology*
A.B., Harvard University, 1938; M.D., Washington University, 1942.
- PHILIP ACKERMAN *Research Assistant in Medicine*
B.S., University of Oregon, 1931; Ph.D., Johns Hopkins University, 1936.
- HERBERT CARL FRITZ *Assistant in Clinical Medicine*
A.B., Washington University, 1940; M.D., 1943.
- FLOYD C. ATWELL *Assistant in Obstetrics and Gynecology*
B.S., Geneva College, 1933; M.D., Jefferson Medical College, 1937.
- *CHARLES WILLIAM MILLS, JR.³ *Assistant in Obstetrics and
Gynecology*
M.D., University of Pennsylvania, 1938.
- *HOWARD MCKNIGHT *Assistant in Obstetrics and Gynecology*
B.S., University of Dayton, 1938; M.D., University of Cincinnati, 1941.
- LUIS C. PRIETO, JR.⁴ *Assistant in Obstetrics and Gynecology*
B.S., Tulane University, 1942; M.D., 1944.
- ROBERT LOEFFEL⁵ *Research Assistant in Pharmacology*
B.S.M.E., Washington University, 1929.
- FREDERIC C. LOOMIS⁶ *Assistant in Obstetrics and Gynecology*
B.S., State University of Iowa, 1940; M.D., 1940.
- FRANCES MAY CHAPPELL⁷ *Assistant in Ophthalmology*
A.B., Washington University, 1940; M.D., 1943.

¹ July 1, 1945 to March 31, 1946.

² Resigned December 31, 1945.

³ July 1, 1945 to October 28, 1945.

⁴ Effective September 1, 1945.

⁵ Effective September 10, 1945.

⁶ Effective October 1, 1945.

⁷ July 1, 1945 to December 31, 1945.

- LOUIS BERGER *Assistant in Biological Chemistry*
B.S., Washington University, 1939; M.S., 1943.
- HELEN V. LEIDLER² *Research Assistant in Medicine*
B.S., Kansas State College of Agr. and Applied Science, 1942.
- FRANK TOWNSEND³ *Assistant in Pathology*
M.D., Tulane University, 1938.
- WALTER BAUMGARTEN, JR.⁴ *Assistant in Clinical Medicine*
A.B., Washington University, 1935; M.D., 1939.
- MILTON WILBUR SLEIN *Assistant in Biological Chemistry*
A.B., Washington University, 1940; M.S., 1943
- ESTHER GOODALE⁵ *Assistant in Psychiatric Social Work*
B.S., Purdue University, 1941; M.S., Smith College, 1942.
- BERNARD G. SARNAT *Assistant in Clinical Surgery*
B.S., University of Chicago, 1933; M.D., 1936; D.D.S., University of Illinois, 1940.
- JAMES O. BOLEY *Assistant in Pathology*
A.B., Central College, 1925; M.D., University of Kansas, 1932.
- RUTH S. PETERSON⁶ *Research Assistant in Medicine*
B.S., St. Louis University, 1935.
- AMELIA ALBENA BAUER¹ *Assistant in Neuropsychiatry*
B.S., University of Minnesota, 1939; M.B., 1943; M.D., 1943.
- BERNARD BERCU¹ *Assistant in Medicine*
M.D., Washington University, 1944.
- SAMUEL BESSMÄN¹ *Assistant in Pediatrics*
M.D., Washington University, 1944.
- ROBERT LOFTUS BRERETON¹ *Assistant in Pathology*
A.B., Washington University, 1942; M.D., 1945.
- HARVEY RAYMOND BUTCHER, JR.¹ *Assistant in Surgery*
A.B., Central College, 1941; M.D., Harvard University, 1944.
- WILLIAM C. CHALECKE¹ *Assistant in Obstetrics and Gynecology*
A.B., Harvard University, 1939; M.D., University of Rochester, 1943.
- JAMES THOMAS CHAMNESS¹ *Assistant in Surgery*
M.D., University of Pennsylvania, 1944.
- GEORGE EDWARD GILLESPIE¹ *Assistant in Surgery*
B.A., University of Mississippi, 1941; M.D., Vanderbilt University, 1944.
- ROBERT JOY GLASER¹ *Assistant in Medicine*
B.S., Harvard University, 1940; M.D., 1943.
- LAWRENCE GREENMAN¹ *Assistant in Medicine*
M.D., Yale University, 1944.
- CHARLES RUSSEL GULICK¹ *Assistant in Obstetrics and Gynecology*
A.B., Central College, 1940; M.D., St. Louis University, 1943.
- BOYCE L. HANKS¹ *Assistant in Surgery*
A.B., University of Alabama, 1942; M.D., Harvard University, 1944.

¹ July 1, 1945 to March 31, 1946.

² Effective October 1, 1945.

³ Effective October 22, 1945.

⁴ Effective November 1, 1945.

⁵ Resigned November 30, 1945.

⁶ Resigned October 31, 1945.

- JEAN HOLOWACH *Assistant in Pediatrics*
B.A., University of Alberta, 1938; M.D., 1941.
- JACK SAMUEL INGRAM¹ *Assistant in Otolaryngology*
A.B., University of Oregon, 1940; M.D., Washington University, 1943.
- MARGARET BOYD MEYN¹ *Assistant in Pediatrics*
A.B., University of Missouri, 1940; B.S. in Med., 1942; M.D., Washington University, 1943.
- WILLIAM BROWNSON MIZE¹ *Assistant in Obstetrics and Gynecology*
A.B., Washington and Lee University, 1941; M.D., Washington University, 1944.
- JULIUS KARL NEILS¹ *Assistant in Pediatrics*
B.A., Reed College, 1940; M.D., Washington University, 1943.
- DAVID RIVES OLIVER¹ *Assistant in Pathology and in Radiology*
A.B., University of Missouri, 1941; M.D., Washington University, 1944.
- ROBERT PAINE¹ *Assistant in Medicine*
M.D., Harvard University, 1944.
- NATHAN RIFKINSON *Assistant in Neurological Surgery and
Fellow in Neurological Surgery*
M.D., Emory University, 1936.
- THOMAS BARNETT SAPPINGTON, JR.¹ *Assistant in Surgery*
B.A., Vanderbilt University, 1942; M.D., 1944.
- BARBARA SANDERSON SHIER¹ *Assistant in Neuropsychiatry*
A.B., Oklahoma College for Women, 1937; M.D., Washington University, 1944.
- JAMES B. STOUT *Assistant in Clinical Medicine*
B.S., Antioch College, 1940; M.D., Northwestern University, 1943.
- HELEN ELIZABETH YEAGER¹ *Assistant in Pediatrics*
A.B., Central College, 1940; M.D., Washington University, 1943.
- MARGARET L. JONES HENRY² *Research Assistant in Medicine*
A.B., Hunterdon College, 1942; M.D., Washington University, 1945.
- ANITA ZORZOLI² *Research Assistant in Pathology*
A.B., Hunter College, 1938; A.M., Columbia University, 1940; Ph.D., New York University, 1945.
- THOMAS WATSON KEMPER³ *Assistant in Obstetrics and Gynecology*
B.S., North Texas State Teachers College, 1944; M.D., Southwestern Medical College, 1944.
- LEON J. FOX¹ *Assistant in Clinical Orthopedic Surgery*
B.S. in M.S., Washington University, 1939; M.D., 1939.
- DOMINIC JOSEPH VERDA¹ *Assistant in Surgery*
A.B., University of Illinois, 1924; M.A., 1930; M.D., Johns Hopkins University, 1935.
- HELEN HARKNESS⁴ *Assistant in Occupational Therapy*
- ADOLPH A. BALUKA⁴ *Assistant in Occupational Therapy*

¹ July 1, 1945 to March 31, 1946.

² Effective August 1, 1945.

³ Effective July 15, 1945.

⁴ Effective November 1, 1945.

FELLOWS

- LEOPOLD HOFSTATTER *Research Fellow in Neuropsychiatry*
M.D., University of Vienna, 1926.
- *THOMAS HANNAHAN BURFORD *Fellow in Chest Surgery*
A.B., University of Missouri, 1931; B.S., 1933; M.D., Yale University, 1936.
- *LAWRENCE MILTON SHEFTS *Fellow in Chest Surgery*
A.B., University of Oklahoma, 1930; M.D., Rush Medical College, 1934.
- MARIO BESSO PIANETTO . . . *Pan-American Union Visiting Fellow in Chest Surgery*
M.D., Litoral University (Argentina), 1937.
- ALPHONSE GAITAN Y NIETO² *Kellogg Fellow in Ophthalmology*
M.D., National University of Colombia, 1936.
- OSLER ALMON ABBOTT³ *Fellow in Chest Surgery*
B.A., Princeton University, 1933; M.D., Johns Hopkins University, 1937.
- HAROLDO RENAULT DE OLIVEIRA *Fellow in Chest Surgery*
M.D., University of Rio De Janeiro (Brazil), 1942.
- MIGUEL ALONZO⁵ *Fellow in Otolaryngology*
B.S., University of Maryland, 1932; M.D., 1935.
- ASDRUBAL BAIÃO PINTO *Fellow in Obstetrics and Gynecology*
M. D., University of Lisbon, 1940.
- ROBERTO PACHECO *Fellow in Chest Surgery*
M.D., University of Mexico, D.F., 1941.
- JOSE ANTONIO ISAGUERRE MERCADO . . . *Visiting Fellow in Chest Surgery*
M.D., University of Mexico, D.F., 1939.
- RICHARD THOMAS ODELL *Fellow in Orthopedic Surgery*
A.B., Westminster College, 1935; B.S. in Medicine, University of Missouri, 1941; M.D., Washington University, 1943.
- WILLIAM B. SHALLECK¹ *Research Fellow in Biophysics*
Ph.D., Harvard University, 1945.
- W. BILFELDT-NICHOLLS *Visiting Fellow in Thoracic Surgery*
M.D. (Argentina), 1942.
- CHARLES W. MILLS² *Fellow in Obstetrics and Gynecology*
M.D., University of Pennsylvania, 1938.
- ANDRÉ GERMAIN³ *Fellow in General and Chest Surgery*
M.D., University of Paris, 1943.
- MASON TRUPP⁴ *Fellow in Neurological Surgery*
B.S., Washington College, 1933; M.D., University of Maryland, 1937.

¹ Effective October 1, 1945.² Effective October 29, 1945.³ Effective October 8, 1945.⁴ Effective November 15, 1945.⁵ July 1 to December 31, 1945.

OFFICERS AND COMMITTEES OF THE FACULTY OF THE
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Outpatient Departments of Barnes, the St. Louis Children's,
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HISTORICAL STATEMENT

THE SCHOOL OF MEDICINE¹

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

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

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

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

¹ A brief historical statement of other departments of the University appears in the bulletin of the College of Liberal Arts.

An executive faculty was established, composed of the heads of departments, to plan the new organization of the school and to direct its conduct. During the planning and erection of the new laboratory and hospital buildings, the reorganized school continued to occupy the building on Locust Street and the University Hospital and Dispensary on Jefferson Avenue.

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

THE 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, Neuropsychiatry and Biophysics.

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 and the Oscar Johnson Institute with the School of Medicine, and their location together on one plot of ground makes this group of institutions for teaching purposes integral parts of the School of Medicine. Each hospital contains class rooms and laboratories used by 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. In the Country Department near Valley Park about sixty convalescent children are cared for.

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. The Hospital provides also the headquarters and laboratories of the department of obstetrics.

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 a department 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.

An important research activity of the Institute is operation of the Cyclotron, located on the campus of the University, and the study of biological and medical effects of radioactive isotopes and of the neutron beam. During the War the cyclotron and its staff were operated by the War Department in connection with the Manhattan Project. It is now released and the research program is being resumed.

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 completion of McMillan Hospital provides about 150 additional 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. By liberating an equal number of beds in other institutions this development affords an increase of facilities for all of the affiliated hospitals, with greater economy and efficiency.

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, bio-physics, and neuropsychiatry.

The University Clinics, housed mainly in the Clinics-Pathology Building, functions as the united out-patient department for ward patients of all of the Hospitals of the Medical Center, and also as the headquarters for the application of preventive medicine to its large clientele. (Separate "doctors' offices" are provided in each Hospital for examination and treatment of ambulant private patients.) The number of patient-visits per day in all divisions of the Clinics is about 460. A large part of the clinical teaching with ambulant patients is carried out in the several divisions of the Clinics.

The University 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 Trustees of the Affiliated Institutions thereby reaffirm the policy of this Medical Center: to unite wherever practicable the aims of research and training with the practice of medicine and surgery. The benefit each function derives from that union is regarded as the best assurance of progress for all.

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

chronic diseases) and the City Sanitarium (for mental diseases) are also used for study and teaching of these subjects.

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

LIBRARY

The Library contains (October 1, 1945) 63,363 bound volumes and receives 682 medical periodicals, selected with reference to the needs of students and investigators.

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

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

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

LECTURESHIPS

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

The Alumni of the School have established a Robert J. Terry Lectureship Fund "for the purpose of fostering greater appreciation of the study of human anatomy in relation to the teaching and practice of medicine."

RECONVERSION FROM WAR-TIME PROGRAM

As stated in preceding issues of this bulletin the academic schedules of the School of Medicine and its normal requirements for admission were suspended in June 1942, for the adoption of a uniform accelerated program thought necessary as a war emergency. In consequence of that program five classes will have graduated within the four year period ending in June 1946. The total number of graduates in these five classes, (487) exceeds the number graduated in the preceding four classes by 104.

The Navy Department terminated its contract with the School on December 15, 1945. The War Department announces that its contract will end on March 30, 1946. These decisions permit an early resumption of educational programs based upon educational considerations, upon peace-time requirements and upon the policies adopted by this institution.

It will take time to evaluate these considerations and thus to arrive at a program for medical education that best fits the contribution by this University to society in the post-war world. Instead of reverting merely to pre-war schedules and curricula, the faculty desires a reconsideration of pre-professional, basic and post-graduate education for medicine as a continuation program; with due regard not alone to its distinctive factual or technical content, but also to the development of

personal and cultural qualities and the intellectual capacity of the individuals who enter upon that program. Efforts in these directions are underway. They indicate perhaps the spirit, but not yet the form of an educational program.

The following statements may be made concerning the schedules adopted for this and the following academic years.

It is the opinion of the faculty that the accelerated war-time program is not conducive to sound preparation in medicine and should be abandoned. In accord with this policy, the plan of admitting a beginning class once each year was resumed with the class entering in September 1945. The duration of the academic year exclusive of holidays and the summer recess will remain at 36 weeks of instruction.

Following the close of the present session on June 22, 1946 there will be a summer recess for all classes until the opening of the next session on September 12. As customary in the past opportunities for elective special studies will be afforded a limited number of students from each class in the laboratories and clinical services during the vacation period.

The present first class is now on the normal academic schedule. The fourth class will graduate about March 23, 1946, when its members will enter internships to extend over the following 15 months.

Students now enrolled in the second and third classes will complete their terms and be ready to enter the next class on April 1, 1946. Transfer students accepted from other schools for the third class will enter on that date (for 1946 only). For these two classes the duration of the third and fourth academic terms will be 48 weeks, exclusive of holidays and the summer vacation: the spring quarter plus the next academic year. (No extra tuition will be charged.)

This plan is believed to benefit the members of these classes; it prolongs by three months the period of undergraduate study and also provides a summer vacation for students most of whom have been on accelerated programs without vacation during the war period; it makes their date of graduation coincide with the beginning of the internship. It also allows the Medical School to resume a normal time schedule for all classes with the opening of the Fall session in September 1946.

It is understood that Selective Service will approve of summer vacations for enrolled medical students in good scholastic standing.

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.

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, cultivates an inquiring and thoughtful attitude. Development of an inclination to study and the habit of reasoning, whatever the subject matter may be, is more valuable than an obligatory course taken merely to satisfy entrance requirements.

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

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

Applications for admission should be filed as early as possible, preferably by March 1 of the year during which admission is sought.

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

Application blanks will be furnished upon request. After supplying all information called for therein, the applicant should return the blanks and, in addition, should request his college to send directly to the 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

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

Applicants for advanced standing (1) must furnish evidence that the requirements for admission to the first year class 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. In 1946 that falls on April 1 for the third class and September 12 for the second class.

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

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

ADMISSION OF GRADUATES IN MEDICINE

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

A program of courses for post-graduate students is in preparation and will be mailed to applicants by request to the Registrar.

$\frac{4}{5} \text{ of } 81 = 65$

STANDING AND PROMOTION

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

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

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

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

Major Subjects.

First Year: Anatomy, Histology and Neuroanatomy, Biochemistry.

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

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

Fourth Year: Medicine, Obstetrics and Gynecology, Pediatrics, Surgery, Preventive Medicine.

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

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

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

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

(f) Under exceptional circumstances the promotion committees may suggest to the Dean and to the Committee on Admissions and 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 indebtedness to the University.

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

BACHELOR OF SCIENCE IN MEDICAL SCIENCE

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

INTERN APPOINTMENTS

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

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

PRIZES

GEORGE F. GILL PRIZES:

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

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

ALPHA OMEGA ALPHA FRATERNITY PRIZE is awarded at the end of the fourth year to the member of that class who has made the highest average for the entire medical course.

ALPHA OMEGA ALPHA FRATERNITY PRIZE FOR STUDENT RESEARCH amounting to twenty-five dollars is awarded to the student who submits the best thesis on a research problem.

The ALEXANDER BERG PRIZE of one hundred dollars is awarded to a student of high general standing who presents the best results in research in bacteriology.

THE HOWARD A. MCCORDOCK BOOK PRIZE is awarded at the end of the second year to a member of that class for general excellence in pathology.

THE SIDNEY I. SCHWAB BOOK PRIZES are awarded at the end of the third year to members of that class for general excellence in neurology and psychiatry.

THE NU SIGMA NU AWARDS of twenty-five dollars each are awarded to the outstanding members of the first and second year classes.

THE BORDEN UNDERGRADUATE RESEARCH AWARD of five hundred dollars is awarded to that member of the graduating class who, during any year while enrolled in the school, has carried out the most meritorious undergraduate research.

FELLOWSHIPS AND SCHOLARSHIPS

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

The number of Honor Scholarships awarded is now much reduced, but a few may be available for exceptionally able applicants.

The purpose of the Jackson Johnson Scholarships is to enable students of exceptional ability and performance, regardless of their financial resources, to enter upon training for careers in medicine and medical sciences. The awards are restricted to those judged to possess definitely superior talents and qualifications, and are made initially only to applicants accepted for the first year class in the School of Medicine. The award may be continued for each of the later years of the course provided the quality of the student's work justifies it.

The amount of the stipend is not fixed, being determined in each case by the need of the individual for financial aid. Award of a Jackson Johnson Scholarship is regarded as a mark of distinction, and carries certain privileges in the School. When made to students not in urgent need of financial aid, the award carries no stipend or only a nominal stipend. For those recipients whose resources are inadequate for tuition and living expenses, the stipends will be set at amounts that will permit maintenance during the academic year without outside employment for support. Holders of these scholarships are not permitted to engage in outside employment, except with the consent of the Dean. The object is to aid in providing favorable circumstances for the development of the student's talents. Employment having educational value in laboratories of the School, with or without compensation, is occasionally available to holders of scholarships as also to other students.

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

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

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

THE GEORGE F. GILL SCHOLARSHIP, instituted in memory of a former Clinical Professor of Pediatrics, entitles the holder to remission of the tuition fee to the amount of \$100.

THE ALUMNI SCHOLARSHIP AWARD of \$100 to be applied on the payment of the tuition fee is given for excellence in work during the preceding scholastic year on the recommendation of the Committee on Loans and Scholarships and the President of the Medical Alumni Association.

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

THE ELIZA McMILLAN STUDENT AID FUND. The annual income from a bequest of the late Mrs. Eliza McMillan provides a scholarship of about \$200 for a deserving woman student in the School of Medicine.

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

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

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

ANDREW RANKIN FLEMING AND SUSIE FLEMING FUND. Through the bequest of the late Mrs. Susie Fleming, \$150.00 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 tuition for the recipient in the School of Medicine. The scholarship is awarded annually preferably to a deserving young man who shows promise in the field of pediatrics. The award is made by the Chancellor on the recommendation of the Dean and the Professor of Pediatrics.

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

STUDENT ASSISTANTSHIPS are available in a number of departments in the School. Information concerning these may be obtained from the heads of the departments concerned.

Applications for all fellowships, scholarships and assistantships may be made to the Dean. The awards are made by the Chancellor on the recommendation of the Dean.

REGISTRATION

Registration for the first half year, 1946-47 is scheduled for Thursday, September 12; for the second half year, Monday, February 3, 1947.

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

FEES AND EXPENSES

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

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

Checks should be made payable to Washington University.

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

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

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

HEALTH SERVICE. A health service fee of \$15.75 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. The services of the physician to students are available at all times for consultation at the Student Health Clinic and for home calls when needed. 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 every student in the School.

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.

Tuition	\$562.50
Laboratory Fees	12.00
Matriculation Fee (payable once)	5.00
Health Service Fee	31.50
Books and Instruments	\$75.00 to 150.00
Room and Board (from \$10.00 to \$15.00 a week)	360.00 to 540.00
	<hr/>
	\$1046.00 to \$1301.00

MEN'S DORMITORY OF THE SCHOOL OF MEDICINE

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

The rental of a room is \$45.00 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 giving 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 of hospitals and out-patients services, supplemented by systematic courses of lectures and clinical conferences.

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

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

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

COURSES OF INSTRUCTION

SECOND YEAR

CONJOINT MEDICINE

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

Medicine: Physical Diagnosis

Applied Pathologic Physiology

Clinical Chemistry and Microscopy

Neuropsychiatry: Introductory Course on the Patient-Physician Relationship

Neurological Examination in Physical Diagnosis

Obstetrics and Gynecology: Introduction to Obstetrics

Ophthalmology: Introduction to Ophthalmology

Otolaryngology and Physical Diagnosis

Surgery: Introduction to Surgery

THIRD YEAR

CONJOINT CLINICS, LECTURES AND SYMPOSIA

The 374 hours of lectures previously given by the various departments during the third year have been reduced to 242 hours, which have been correlated and co-ordinated both in time and in subject matter. There is one hour of lecture or clinic each morning and a two-hour symposium each Thursday morning.

This conjoint course consists of a series of discussions of subjects arranged to give the third year medical student a brief survey of the more common medical conditions. It does not pretend to "cover the ground." Each department contributes to the development of these carefully selected subjects, with the objectives of showing the student what he should know and how he should go about learning. Weekly symposia augment the lectures and clinics. These are in the form of panel discussions, and time is allowed for questions directed by the students to the members of the panel, who represent various departments.

Current mimeographed references concerning the subjects under discussion are distributed prior to the lecture. These references not only provide the student additional factual material and late views on the subject, but also acquaint him with workers in that field and journals through which their work is presented. The number of hours utilized by each department in this cooperative program is included in the listing of courses under the respective departmental headings.

ANATOMY

PROFESSOR COWDRY.

PROFESSOR EMERITUS TERRY.

VISTING PROFESSOR: NORRIS,¹ WEBB.²

ASSOCIATE PROFESSORS TROTTER, O'LEARY, CHARLES, COVELL

ASSISTANT PROFESSOR VAN DYKE.

RESEARCH ASSOCIATES CRAMER,³ SIMPSON, SUNTZEFF.

INSTRUCTORS BARTLETT,* EVANS,* CARRUTHERS, MILES.

ASSISTANT LANSING.

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

FIRST YEAR

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

(Drs. Trotter, Charles, Webb, Covell, Miles)

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

(Drs. Cowdry, Van Dyke, Carruthers, Suntzeff)

NOTE—The numbers in parentheses indicate that the course carries credit in the School of Graduate Studies and may be found under that number in the bulletin of that school.

¹ July 1 to October 31, 1945.

² October 1, 1945 to June 30, 1946.

³ Deceased August 10, 1945.

For 4 weeks and then 2 mornings and 3 afternoons a week for 3 weeks

12 (507). **NEUROLOGY.** A laboratory course in gross and microscopical anatomy of the nervous system occupying ~~five~~ mornings a week. Three weekly lectures are devoted to subjects not easily presented by work in the laboratory. 105 hours. (Drs. Bishop,¹ Van Dyke)

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 for the course.

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

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

BACTERIOLOGY AND IMMUNOLOGY

PROFESSOR BRONFENBRENNER.

ASSISTANT PROFESSORS VARNEY, HERSHEY, TSUCHIYA.

RESEARCH ASSOCIATE WEICHELBAUM.*

INSTRUCTOR SPIEGELMAN.

ASSISTANT KIMURA.

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 invasive-

¹ Professor of Biophysics.

* In Military Service.

ness of the parasite, a number of more important communicable diseases, caused by viruses, bacteria, fungi, protozoa and metazoa, are studied individually with respect to epidemiology, means of laboratory diagnosis, specific therapy and prophylaxis, and general measures of control. Fifteen hours a week during four weeks in the last trimester of the first year and seven weeks in the first trimester of the second year. 165 hours.

(Drs. Bronfenbrenner, Hershey, Tsuchiya, Varney, Spiegelman)

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

(Drs. Bronfenbrenner, Hershey, Varney, Spiegelman)

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

(Drs. Tsuchiya, Miss Kimura)

ELECTIVE COURSE

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

(Dr. Bronfenbrenner and Staff)

BIOLOGICAL CHEMISTRY

PROFESSOR SHAFFER.

PROFESSOR C. F. CORI.

ASSOCIATE PROFESSORS GERTY T. CORI, KAMEN

ASSISTANT PROFESSORS ETHEL RONZONI BISHOP, GREEN,¹ TAYLOR.

INSTRUCTORS FREIBERG, PREISLER.*

ASSISTANTS BERGER, SLEIN

FIRST YEAR

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

(C. F. Cori, Ronzoni Bishop, Taylor, Berger)

* In Military Service.

¹ Resigned August 15, 1945.

ELECTIVE COURSES

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

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

DERMATOLOGY

PROFESSOR EMERITUS MARTIN F. ENGMAN.

ASSOCIATE PROFESSOR WEISS, ACTING HEAD OF DEPARTMENT.

ASSISTANT PROFESSORS A. H. CONRAD, LANE.

INSTRUCTORS COLEMAN, MARTIN F. ENGMAN, JR., MANTING, H. GOTTSCHALK.

ASSISTANTS ESKELES, BAGBY,* MARCUS,* A. H. CONRAD, JR.

MYCOLOGIST MORRIS MOORE.

THIRD YEAR

30. DERMATOLOGY. Clinics on diseases of the skin. These clinics present a general survey of the etiology, symptomatology, pathology, and treatment of skin diseases and are integrated with other clinical subjects presented in the third year course in Conjoint Medicine. 6 hours.

(Drs. Weiss, Conrad, Engman, Jr.)

FOURTH YEAR

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

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

Wednesdays—2:00 to 4:00 p. m.—The Barnard Free Skin and Cancer Hospital. (Dr. Weiss and Staff)

ELECTIVE COURSE

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

Mondays—2:00 to 4:00 p. m.—Skin Clinic, Washington University Clinics. (Dr. Weiss and Staff)

THE JOHN T. MILLIKEN DEPARTMENT OF MEDICINE

(The Department of Medicine includes Internal Medicine and Dermatology)

BUSCH PROFESSOR W. B. WOOD, JR.

PROFESSOR ALEXANDER.

PROFESSOR OF PREVENTIVE MEDICINE CLARK

ASSOCIATE PROFESSORS ELMER, OLMSTED, LUTEN, LARIMORE, C. V. MOORE.

ASSISTANT PROFESSOR EMERITUS L. H. HEMPELMANN.

ASSISTANT PROFESSORS BULGER, LAWRENCE, THOMPSON, KOUNTZ, JENSEN, MACBRYDE,¹ KETTELKAMP, MYERS,² CADY, TAUSSIG, SALE, FISCHER, STRAUSS, GRANT, ALFRED GOLDMAN, HAGEMAN,* JOHN R. SMITH, HARFORD, MASSIE, V. SCOTT, WADE, WILLIAMS, REINHARD.

INSTRUCTORS JEROME E. COOK, EYERMANN, LIGGETT, DUDEN, BREDECK, DAY, RUSK,* STODD, AITKEN, JEAN, BROMBERG,* GOTTLIEB,* KENAMORE,* EDWARDS, MURPHY, KEITH WILSON, HOLDEN,* SEDDON, KOENIG, ELLIOTT,* POLLOCK,* GLAZE, ROSENFELD, CANNADY, SKILLING, SCHEFF, HORNER, KARL,* BROOKS, WIESE, MAXWELL, ELSON, ROBERTS, KINGSLAND.⁵

ASSISTANTS ABEL, BECKE, GLASSBERG, M. SMITH,* LEE B. HARRISON, CECIL M. CHARLES, MANSBACHER, BEAM, BIERBAUM, AGRESS, ARROWSMITH, KELLEY,* BEN CHARLES, DRAKE, BLANEY,* WEDIG, STANLEY F. HAMPTON,* FLEISHMAN,* B. WHITE,* FREEDMAN,* KIRCHER,* WRIGHT,* KIRSTEIN,* HENRY ALLEN, KALLENBACH,* CROUCH,* R. J. COOK, STANBRO,* DARROW,* BUCK,* GOETSCH, GILLILAND, STEINBERG, FLANCE, SALE, JR., FRITZ,³ BERCU,³ GLASER,³ GREENMAN,³ PAINE,³ STOUT, BAUMGARTEN.⁴

RESEARCH ASSISTANTS MINNICH, JOHNSON, DUBACH, MARY R. SMITH, MUNDY,¹ ACKERMAN, PETERSON,⁶ HENRY,⁷ LEIDLER.⁸

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 diagnosis and clinical microscopy. By the beginning of the third year the student is prepared for supervised clinical study of individual patients in the wards. The emphasis in the junior year is placed upon clinical diagnosis. In the final year each student acts for one month as clinical clerk in the general medical, dermatological, and venereal disease clinics, and for one month in the wards of Barnes Hospital. During his senior clinical clerkship the student receives formal instruction in medical therapeutics.

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 53.) 20 hours.

(Drs. Wood, Duden, Harford, MacBryde, Massie,
C. V. Moore, Reinhard, J. Smith, R. Williams.)

* In Military Service.

¹ Resigned December 31, 1945.

² Resigned December 4, 1945.

³ July 1, 1945 to March 31, 1946.

⁴ Effective November 1, 1945.

⁵ Effective December 1, 1945.

⁶ Resigned October 31, 1945.

⁷ Effective August 1, 1945.

⁸ Effective October 1, 1945.

(b) Physical Diagnosis. Lectures, demonstrations and practical exercises in the technique of physical diagnosis. Part of Conjoint Medicine. (See page 53.) 77 hours.

(Drs. Reinhard, Bulger, C. Charles, Harrison, Jean, Roberts,
J. Smith, Stroud, Taussig, Wade, Wilson, Abel, Mundy,
Flance)

(c) Clinical Chemistry and Microscopy. Lectures and laboratory course in methods of microscopic and chemical diagnosis. Part of Conjoint Medicine. (See page 53.) 99 hours.

(Drs. Carl Moore, Reinhard, Goetsch, Agress, Miss Bierbaum)

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 preceptors, each of whom is responsible for one-fourth of the group. Teaching exercises include ward rounds, clinics and afternoon work in the wards and laboratories. 13½ hours a week for one quarter. 108 hours.

(Drs. Barrett Taussig, Wade, J. Smith, Baumgarten and K. Wilson)

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

(Drs. Harford, Sale, Jr.)

(c) Laboratory Diagnosis. Cases selected to illustrate the importance of laboratory diagnostic methods are presented to the students each week during their medical quarter. A specimen of blood, urine, stool, sputum, pleural or peritoneal fluid from the patient is given to each student who is required to reach a final diagnosis on the basis of the clinical history and his own laboratory findings. The correct laboratory data and the final diagnosis are presented at the end of the period. Two hours each week for one quarter. 16 hours.

(Drs. C. Moore and Reinhard)

31. MEDICAL CLINICS. Clinics and symposia intended to present systematically the more important subjects in clinical medicine. These clinical exercises are integrated with those presented by other departments in the third year course in conjoint medicine which runs throughout the year. 81 hours.

(Drs. J. Smith, C. Moore, Reinhard, Clark, Conrad, Williams,
Harford, Engman, Jr., Weiss, Cook, Scott, Massie, Goldman,
Duden, Scheff, MacBryde, Wilson, Rosenfeld)

32. DERMATOLOGICAL CLINICS. See Dermatology 30.

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

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

FOURTH YEAR

40. MEDICINE.

(a) Clinical clerkship in Hospital Wards. For four 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. 120 hours.

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

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

Morning

Medicine A Clinic (General Medicine)

(Drs. Goldman, Maxwell, Aitken, Koenig, Kountz, Massie,
Scheff, Thompson, J. Cook, Becke, Steinberg, Luten)

Medicine B Clinic (General Medicine)

(Drs. Strauss, Brooks, Cannady, Duden, Fischel, Grant,
Jensen, Skilling, Glassberg, Horner, Luten, Steinberg)

Afternoon

Dermatology Clinic*

(Dr. Weiss and Staff)

Syphilis Clinic

(Drs. Clark, J. Smith, Scott, Gottschalk, Roberts, Goetsch,
Henry, Mundy)
112 hours.

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

(c) Medical Therapeutics. The medical treatment of the more common diseases is discussed systematically and in considerable detail. Two hours each week during the medical quarter. 16 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. 33 hours.

(Drs. Wood, Alexander, Clark, Carl Moore)

42. CLINICAL PATHOLOGICAL CONFERENCES. Abstracts of the clinical records of patients upon whom post mortem examinations have been per-

* Held at the Barnard Skin and Cancer Hospital.

formed are presented in advance to members of the third and fourth year classes and to members of the medical staff. Cases are selected to illustrate diagnostic problems, and special cases are included from outside sources to emphasize the more important Tropical Diseases not seen in this locality. At each conference the diagnosis is discussed in detail by the clinical staff before the anatomical findings are presented by the pathologists. 32 hours.

(Drs. Wood, Alexander, C. Moore, Robert Moore and staff)

ELECTIVE COURSES

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

51. *Special Medical Clinics.* Four students—Afternoons only for eight weeks. Gastrointestinal Clinic on Monday, Allergy Clinic on Tuesday, Arthritis Clinic on Wednesday, Endocrine Clinic on Thursday. Friday afternoon will be kept free for library assignments, etc.

(Drs. Horner, Eyermann, Rosenfeld, Bulger, and Staffs)

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

(Drs. Kettelkamp, Murphy)

56. *Cardiology.* Two students. Mornings and afternoons for four weeks. The course will include the study of cardiac patients on the wards of the St. Louis City Hospital, in the St. Louis City Outpatient Department, in the St. Louis County Hospital, and in the Obstetrical Clinic of the Washington University Outpatient Department. (Dr. Jensen)

54. *Metabolic Diseases.* Two students—All day for four or eight weeks. Rounds and assignment of selected cases in metabolism ward of the Barnes Hospital. Attendance at Diabetic and Endocrine Clinics in Washington University Clinics and at City Hospital. Special training in special diagnostic tests applicable to the study of metabolic and endocrine diseases. (Dr. MacBryde)

55. *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)

56. *Hematology.* One Senior student may be accepted each quarter for special work in the Hematology Laboratory. Time is divided between seeing patients with hematologic dyscrasias and in acquainting himself with special diagnostic procedures. (Dr. C. Moore)

NEUROPSYCHIATRY

PROFESSOR EDWIN F. GILDEA.

PROFESSOR EMERITUS SCHWAB.

PROFESSOR C. F. JACOBSEN.

ASSOCIATE PROFESSOR O'LEARY.*

ASSISTANT PROFESSORS A. B. JONES, CARR, SATTERFIELD,* TUREEN,* WARSON, LEVY, MOLHOLM, SASLOW, SOMMER,¹ FINGERT.

RESEARCH ASSOCIATE SALOMON.

INSTRUCTORS KUBITSCHKEK, BELL, GITT,* MAUGHS, ZENTAY, MARGARET GILDEA, M. M. JACOBSEN, BADAL,⁴ BUSCH, THALE, ROYER.¹

INSTRUCTOR IN PSYCHIATRIC SOCIAL WORK BUCHMUELLER.

LECTURER EMERY.

ASSISTANTS KENDALL, MIKSICEK,* P. HARTMAN,* KERR,* STEPHENS,* REESE,* GOTTSCHALK, GOODALE,⁴ BAUER,² LEGRAND,² SHIER.²

PSYCHOLOGIST SPITZ.³

RESEARCH FELLOW HOFFSTATTER.

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 physical examination, elementary instruction is given in the approach to the patient as a person, with a view to understanding his problems in terms of their meaning for him as a person.

Clinical clerkship in the University Clinics in the third year bring the individual student directly into relationship with patients showing disorders of personality function, and with the family and community situations of such patients. The student also has the opportunity to work with patients showing more severe personality disorders at the Bliss Psychopathic Institute and City Sanitarium. Frequent conferences both with staff members and the psychiatric social workers are held for purposes of discussion of procedure and of working formulations.

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 clinical demonstrations are held for the whole class at which illustrative cases are presented and diagnosis and therapy are discussed. Weekly conferences are held with the clinical clerks in medicine. The students present patients whose symptoms are produced or aggravated by psychological conflicts.

* In Military Service.

¹ Effective August 1, 1945.

² July 1, 1945 to March 31, 1946.

³ Resigned October 31, 1945.

⁴ Resigned November 30, 1945.

FIRST YEAR

10. NEUROPSYCHIATRY.

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

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

SECOND YEAR

20. PSYCHIATRY.

THE INTERVIEWING OF PATIENTS. (Part of Conjoint Medicine [see page 53].) 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.

(Drs. E. F. Gildea, C. F. Jacobsen and G. Saslow)

20. NEUROLOGY.

NEUROLOGICAL EXAMINATION IN PHYSICAL DIAGNOSIS. (Part of Conjoint Medicine (see page 53). Lectures, demonstrations and exercises in the neurological examination of the patient. 6 hours.

(Drs. Jones and Levy in conjunction with Dr. Wood and Assistants)

THIRD YEAR

30. PSYCHIATRY.

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

(b) CLINICAL CLERKSHIP. One-ninth of the third year class serve a clinical clerkship of three to four weeks in the University Clinics. The students are assigned patients and participate in the work of the clinics under close personal supervision of the staff members. Interviews with institutionalized patients and conferences on selected cases are provided at the Washington University Clinics (Neuropsychiatry). 49 hours.

(Drs. E. Gildea, Jacobsen, Maughs, M. Gildea, Molholm, Busch, Buchmueller, Anderson¹)

31. NEUROLOGY.

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

¹ From the Social Service Department of Washington University Clinics and Allied Hospitals.

(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. Levy, E. Gildea)

FOURTH YEAR

40. PSYCHIATRY.

(a) **PSYCHIATRIC CLINIC.** An exercise every other week throughout the year, alternating with the Neurological Clinic (neurology 41(a)). Illustrative cases on the Barnes Hospital wards are presented and discussed. One hour every two weeks throughout the year. 17 hours.

(Drs. E. Gildea, Saslow)

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

(Dr. Saslow)

41. NEUROLOGY.

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

(Drs. Jones, Levy)

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

(Drs. Jones, Levy)

ELECTIVE COURSES

51. *Psychiatry.* Work may be elected for four or eight weeks. Students' 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. F. Gildea, Saslow, Molholm, Busch,
Warson, Fingert, Sommer, Maughs, M. Gildea)

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

PROFESSOR WILLARD M. ALLEN.

PROFESSORS O. H. SCHWARZ, ROYSTON, T. K. BROWN.

PROFESSOR EMERITUS H. S. CROSSEN.

ASSISTANT PROFESSORS McNALLEY, O'KEEFE, PADDOCK, KREBS, R. J. CROSSEN, HOBBS, WEGNER, D. R. SMITH,* ROBLEE, SOULE,* ARNESON.

ASSISTANT PROFESSOR EMERITUS SCHLOSSSTEIN.

INSTRUCTORS LIESE, MORRIN, DAVIS, ARZT, SCRIVNER, O'NEILL, WASSERMAN,* GIBSON, BORTNICK,* ROTHMAN, WULFF, VIEAUX,¹ MEYERHARDT, ESSLINGER,* MONAT.

ASSISTANTS CANEPA, STEWART, PATTON, MAX,* HUTTO, ATWELL, H. L. ALLEN, KEYS,* WOLF,* LATTUADA,* HAWKER,* MCKNIGHT, MASTERS, MCFADDEN, BLANCHET,² MIZE,² GULICK,² CHALECKE,² KEMPER,³ PRIETO,⁴ LOOMIS.⁵

RESEARCH ASSISTANT HAYWARD.

FELLOWS PINTO, MILLS.

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

SECOND YEAR

20. INTRODUCTION TO OBSTETRICS. Part of the course in Conjoint Medicine (see page 53).

THIRD YEAR

30. LECTURES IN OBSTETRICS AND GYNECOLOGY. Lectures are given to the entire class during the early part of the year in the course in Conjoint Medicine.

(Drs. Allen, Schwarz, T. K. Brown, Wegner, Hobbs)

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

(Dr. Hobbs and Staff)

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

(Dr. Allen and Staff)

¹ Resigned July 31, 1945.

² July 1, 1945 to March 31, 1946.

³ Effective July 15, 1945.

⁴ Effective August 15, 1945.

⁵ Effective October 1, 1945.

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

FOURTH YEAR

40. **CLINICS AND LECTURES.** Entire class once weekly throughout the year. 33 hours. (Dr. Allen and Staff)

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

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

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. Four or eight weeks. Full time. All quarters.

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

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

OPHTHALMOLOGY

PROFESSOR LAWRENCE T. POST.

PROFESSORS W. E. SHAHAN, WIENER.

ASSOCIATE PROFESSOR EMERITUS WOODRUFF.

ASSOCIATE PROFESSORS WILLIAM F. HARDY, M. HAYWARD POST, SCHWARTZ.

ASSISTANT PROFESSORS B. Y. ALVIS, JAMES, HILDRETH, BEISBARTH.

INSTRUCTORS LANGE, CRAWFORD, SANDERS, MEINBERG, JAMES H. BRYAN,*
BISNO, SCOBEE.

LECTURER MASON.

ASSISTANTS E. B. ALVIS, ROSENBAUM, HANSER, MILDER,* ROBERTSON,*
ROSEHILL,* MATTIS, FREEDMAN, CHAN-PONG, CHAPPELL,¹ P. T. SHAHAN.

* In Military Service.

¹ July 1 to December 31, 1945.

SECOND YEAR

OPHTHALMOLOGY. Lectures and demonstrations are given as a part of the course in Conjoint Medicine. 3 hours. (See page 53.)

(Drs. Lawrence Post, James, Scobee)

THIRD YEAR

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

31. CLINICAL OPTHALMOLOGY. Instruction in diagnosis and treatment of eye diseases is given to small sections of the class. Nine hours a week for two weeks. 18 hours.

(Drs. Lawrence Post, M. H. Post, Schwartz, James, Beisbarth)

OTOLARYNGOLOGY

PROFESSOR WALSH.

PROFESSOR EMERITUS HARRY LYMAN.

PROFESSOR PROETZ.

ASSOCIATE PROFESSORS HANSEL, ALDEN, COSTEN, COVELL.

ASSISTANT PROFESSORS ARBUCKLE, KELLEY,* CONE, GLICK, SENTURIA.

INSTRUCTORS VOTAW, BOEMER,* G. HARDY, L. W. DEAN, JR., SMIT,* POTTER, STUTZMAN, PROUD,* WILLIAM T. K. BRYAN, SIRLES, HALL.³

LECTURER SILVERMAN.

ASSISTANTS GAGE, SCHERRER, MOUNTJOY,* E. H. LYMAN,* CUTLER,* McCROY, INGRAM.

FELLOW ALONZO.²

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 53).

THIRD YEAR

30. OTOTOLOGY, RHINOLOGY AND LARYNGOLOGY. Five lecture hours given during the second quarter. (Dr. Walsh)

31. OTOLARYNGOLOGY. Clinical instruction is given to sections of six for twelve hours a week for two weeks. 24 hours.

(Drs. Walsh, Costen, Dean, Jr., Bryan, Sirles, Senturia, Potter)

ELECTIVE COURSES

51. *Clerkship in Otolaryngology*. Two students may serve as externes in the clinics for four or eight weeks. Permission of the Head of the Department is necessary before registration for this elective. Full time.

(Dr. Walsh and Staff)

* In Military Service.

¹ July 1, 1945 to March 31, 1946.

² July 1 to December 31, 1946.

³ Effective January 1, 1946.

PATHOLOGY

EDWARD MALLINCKRODT PROFESSOR ROBERT A. MOORE.
 PROFESSOR EMERITUS LOEB.
 ASSOCIATE PROFESSORS MARGARET G. SMITH,⁴ GRAY.*
 ASSISTANT PROFESSORS ACKERMAN, SAXTON, STOWELL.
 ASSOCIATE LEVY.*
 RESEARCH ASSOCIATE MARY L. MILLER.¹
 INSTRUCTORS HENRY ALLEN, HELWIG,* EDWARD SMITH,* COOPER, BREY-
 FOGLE, AGRESS, M. SILBERBERG, R. SILBERBERG, SCHLADEMAN, PLATT.
 LECTURER EMERITUS POTE.
 ASSISTANTS W. G. BROWN,* STAHL,⁷ ANSCHUETZ,⁷ RUSSI,* DAVID SMITH,²
 BOLEY, OLIVER,² BRERETON,² TOWNSEND.⁶
 RESEARCH ASSISTANTS PETERSON,⁵ ZORZOLI.³

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 School of Graduate Studies for any of the courses. Pathology 20 is a prerequisite for all other courses.

SECOND YEAR

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

THIRD AND FOURTH YEARS

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

(Drs. Moore, Margaret Smith, and Stowell)

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, and Stowell)

¹ Resigned July 31, 1945.

² July 1, 1945 to March 31, 1946.

³ Effective August 1, 1945.

⁴ On leave of absence for government work, July 1 to September 30, 1945.

⁵ Resigned September 30, 1945.

⁶ Effective October 22, 1945.

⁷ Resigned October 31, 1945.

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

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

(Drs. Moore, Margaret Smith)

53 (597). *Seminar in Microscopic Pathology*. The microscopic sections from each autopsy are presented by the prosector at a conference. Pertinent articles from the current literature are presented and discussed as they apply to the cases under consideration.

(Drs. Moore, Margaret Smith)

54 (598). *Seminar in Theoretical and Experimental Pathology*. Topics in General Pathology are selected and assigned to members of the junior staff and to qualified students for review. Once a week. (Dr. Moore)

55. *Clerkship in Pathology at Washington University*. Students may serve as clerks in the Department of Pathology. The students will assist at autopsies and prepare reports for presentation at a seminar once a week. Six half days a week throughout the year.

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

56. *Minor Research*. Those students who during a preceding summer or school year have initiated a research problem in Pathology may continue the work during the elective quarter of the fourth year. Full time for eight weeks. All quarters. (Drs. Moore, Margaret Smith)

THE EDWARD MALLINCKRODT DEPARTMENT OF PEDIATRICS

PROFESSOR HARTMANN.

PROFESSORS COOKE, VEEDER.

ASSOCIATE PROFESSORS McCULLOCH, BLATTNER.

INSTRUCTORS BLEYER, PARK J. WHITE, ZENTAY, KUBITSCHKEK, RUPE, PERLEY,** LAWRENCE GOLDMAN, ROHLFING, DEUTCH, F. A. JACOBS, STANLEY HARRISON, JAUDON, LONDE, BARNETT,** POWERS, D. JONES, DOVAL,* FORBES, ROBINSON, WACHTER, SCHWARTZ, CARSON.

ASSISTANTS LONSWAY, BAUER, AFF, SCHWARTZMAN,* KUTTNER, GOLDRING,* RUBEL,¹ E. BRYAN, CASE,¹ HOLOWACH, BESSMAN,¹ MEYN,¹ NEILS,¹ YEAGER.¹

RESEARCH ASSISTANT HEYS.

DENTISTS MARTIN, HARRIS.*

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.

* In Military Service.

** In National Service.

¹ July 1, 1945 to March 31, 1946.

During the fourth year the emphasis is placed on the physical findings of disease and the student is brought into close contact with the patient in the wards of the St. Louis Children's Hospital, and by frequent clinical conferences with the teaching staff.

THIRD YEAR

30. Pediatric representation in the Conjoint Course consists of 34 lectures of one hour each and participation in 8 symposia of two hours' duration. (Drs. Hartmann, Cooke, Blattner, McCulloch, Forbes, P. J. White)

FOURTH YEAR

40. PEDIATRIC CLINIC. Weekly amphitheatre demonstrations and discussions of selected cases from the hospital, for the whole class. 32 hours. (Drs. Hartmann, Cooke, Blattner, Kubitschek, Forbes, Bleyer, Schwartz)

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-fourth of the class works as clinical clerks for four weeks. This work consists of the following: (1) daily early morning ward rounds with the visiting staff; (2) work on assigned cases, which may be interrupted for special demonstrations; (3) daily conferences with members of the teaching staff, during which the more important pediatric subjects are stressed; (4) clinical conference weekly, during which students present selected cases which are then discussed by the staff; (5) work in the Outpatient Department of the University Clinics, including the general pediatric clinic and such special clinics as the well-baby clinic and the luetic clinic; (6) work in special metabolic clinic conducted in the hospital proper on Saturday morning; (7) clinical conferences at the St. Louis City Hospital; (8) special demonstrations in common nursing procedures, which include the preparation of artificial formulae.

(Drs. Hartmann, Cooke, Blattner, Bryan, Zentay, Kubitschek, Forbes and Staff)

ELECTIVE COURSES

50. *Clerkship at Children's Hospital.* Two students, full time, four or eight weeks.

51. *Clerkship at City Hospital.* Two students, full time, four or eight weeks.

52 (590). *Research.* Properly qualified students may engage in clinical or laboratory research under the direction of the pediatric staff. Hours by arrangement.

53. *Advanced Work.* The facilities of the department are available to qualified students who desire to do additional or advanced work in the St. Louis Children's Hospital, St. Louis Isolation Hospital, Child Guidance Clinic, the Pediatric Clinic or in the laboratories of the department. Hours to be arranged.

THE EDWARD MALLINCKRODT DEPARTMENT OF
PHARMACOLOGY

PROFESSOR CARL F. CORI.

ASSOCIATE PROFESSORS HELEN TREDWAY GRAHAM, GERTY T. CORI.

ASSISTANT PROFESSORS HUNTER, COLOWICK.

RESEARCH ASSOCIATES GREEN,¹ VELICK.²

INSTRUCTOR SUTHERLAND.³

RESEARCH ASSISTANT LOEFFEL.⁴

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

SECOND YEAR

20 (501 and 502). PHARMACOLOGY. (a) Lectures, recitations and demonstrations covering the general field of pharmacology, including toxicology, chemotherapy and prescription writing. 55 hours.

(b) LABORATORY COURSE. A course arranged to demonstrate the chemical properties and pharmacological action of the more important drugs, and at the same time to familiarize the student with methods and processes used in experimental pharmacology. 88 hours.

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

(Drs. Cori, Graham, Hunter, Colowick)

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.

¹ Resigned August 15, 1945.

² Effective August 1, 1945.

³ Effective November 1, 1945.

⁴ Effective September 10, 1945.

PHYSIOLOGY

PROFESSOR EMERITUS ERLANGER.
 ASSOCIATE PROFESSORS H. LESTER WHITE,* GILSON, STEINBACH.⁶
 ASSISTANT PROFESSORS PEUGNET,* EDGAR A. BLAIR.*
 INSTRUCTORS SCHOEFFLE, WALKER.

FIRST AND SECOND YEARS

10 and 20 (502 and 503). PHYSIOLOGY. Lectures covering systematically the field of human physiology with experience in the laboratory, designed primarily to meet the needs of medical students. The laboratory experiments are selected with the double object of supplying a basis for the understanding of the more important physical methods employed in physiology and in clinical medicine and elucidating certain fundamental physiological principles. As far as practicable the student serves as the subject in these experiments. Open to students who have completed or have begun the study of anatomy and biological chemistry.

(a) Lectures and recitations. Third trimester of the first year and first trimester of the second year. 116 hours.

(b) Laboratory. First trimester of the second year. 150 hours.

(Drs. Erlanger, Gilson, Steinbach, Schoeffle, Walker)

ELECTIVE COURSES

50 (504). *Demonstration Methods*. This course is designed primarily for students preparing to teach physiology, and who may desire a wider experience in experimental physiology than can be gained in Course 20. It consists mainly of experiments demonstrated in Course 10. The time and the amount of work are not limited, except that assistance must be arranged for by definite engagements.

51 (590). *Research*. The facilities of the laboratory will be offered to qualified students for the investigation of their own problems or of problems which the department is prepared to suggest.

PUBLIC HEALTH AND PREVENTIVE MEDICINE

PROFESSOR E. GURNEY CLARK.
 PROFESSOR MCGAVRAN¹
 ASSOCIATE PROFESSOR BLATTNER (PEDIATRICS)
 ASSISTANT PROFESSORS SCOTT,² HARFORD, SASLOW (PSYCHIATRY), COOK,
 TSUCHIYA (PARASITOLOGY), WADE.
 INSTRUCTORS MAXWELL, PHILLIPS, BOARD,⁴ KIOUS.⁵
 LECTURERS BREDECK,³ WILLETT, BUXELL, SUNDERMAN, KOVEN, MURPHY,
 PERRY.

¹ Health Officer, St. Louis County. The facilities of the Health Center of St. Louis County Health Department are utilized for practical work and field experience under the direction of Dr. McGavran and his staff.

² Responsible physician for the Student Health Service. The Student Health Service is organized as a responsibility of this department in order to provide a complete program of preventive, as well as curative, medicine. The relation of each student with the Health Service affords a continued example of the practice of preventive measures and engenders a personal interest in that point of view.

³ Health Officer, City of St. Louis.

⁴ Resigned August 31, 1945.

⁵ Effective November 1, 1945.

⁶ From the Department of Zoology.

Instruction in Public Health and Preventive Medicine is given in each of the four years of the undergraduate medical curriculum. The teaching in the first year acquaints the student with the role of the Health Service in the prevention of disease and of prolonged illness among medical students, and in addition provides an introduction to the elements of quantitative methods in medicine. In the second year an attempt is made, by a series of lectures and demonstrations, to focus the attention of the students on 1) infection and disease as they affect aggregations of individuals, 2) modes of spread of disease, 3) the importance of both community and individual action in the prevention and control of disease. In the third year the aim is to correlate the preventive aspects of illness on an individual and community basis, with the facts relative to the clinical features of these conditions. In the fourth year the objective is to give the student information concerning the broader aspects of medicine by means of studies of the patient as a whole in relation to his family, his environment and the community.

FIRST YEAR

10. a) This consists of six informal discussions of the student's relationship with the Student Health Service, of the occupational disease of medical students and their prevention, and of the factors involved in the successful prosecution of their studies.

b) Five lectures are devoted to some of the fundamental factors involved in quantitative methods in medicine. This serves to acquaint the student with elemental statistical principles. First trimester, 1 hour per week, 11 hours.
(Drs. Cook, Saslow and Jacobsen)

SECOND YEAR

20. *Epidemiology.* This is a series of lectures and demonstrations, defining the factors upon which depend the transmission of infections and disease. This includes a discussion of the epidemiology and control of diseases according to their modes of spread. First trimester, 1 hour per week, 11 hours.

(Drs. Clark, McGavran, Blattner, Scott, Harford, Tsuchiya)

30. *Conjoint lectures, clinics and symposia.* This is a part of the conjoint course of lectures for the third year in which many of the departments of the Medical School participate. Correlated with lectures and clinics given by these departments are discussions of the preventive aspects of certain illnesses on an individual and community basis. The community aspects are emphasized in properly placed symposia entitled: Community Resources for Maternal Care, Community Resources for Infant and Child Care, Communicable Disease Control, Venereal Disease Control, Industrial Health, Tuberculosis Control, Prevention of Rheumatic Disease, Medical Economics, Professional Conduct and Ethics, Tropical Disease, Mental Health, Food and Water Sanitation. Given throughout the year, approximately 40 hours.
(Entire Staff)

40. CLERKSHIP IN PREVENTIVE MEDICINE.

a) *Syphilis Clinic*. One eighth of the class spends three afternoons per week for four weeks in Venereal Disease clinics. At the U. S. Public Health Service Rapid Treatment Center, where the vast majority of early syphilis of 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 governmental institution. In the syphilis clinic of Washington University diagnosis and management of patients on an individual and family basis are stressed. Throughout the year, 9 hours per week, 36 hours for each group.

(Drs. Clark, Scott, Maxwell, and from the Department of Medicine, Drs. Smith, Roberts, Gottschalk, Mundy, Henry Goetsch and Layton)

b) *Medical Conferences*. For a period of one month each quarter, one fourth of the class devotes full time (with the exception of (a) above) to detailed studies of patients examined in the medical clerkship. Each student, utilizing 6 patients he has previously examined, reviews the medical situation, visits the home, and subsequently reports on his observations. There are 12 two-hour conference, attended by members of other clinical departments, the Social Service Department and representatives of the local Health Department. The case is presented by the student and the major discussion is devoted to the outstanding feature of the case—medical, social or environmental. 39 hours per week, 4 weeks each quarter.

(Drs. Clark, McGavran, Scott and Saslow)

RADIOLOGY

PROFESSOR SHERWOOD MOORE.

CONSULTING PHYSICIST HUGHES.

ASSOCIATE PROFESSOR LARIMORE.

CHEMIST KAMEN.

PHYSICIST THORNTON.**

ASSISTANT PROFESSORS WENDELL SCOTT, ARNESON, REINHARD.

RESEARCH ASSOCIATE SALOMON.

INSTRUCTORS ZINK, LOUIS HEMPELMANN, JR.,** BOTTOM, MAXWELL, DEIBERT, PLATT.

ASSISTANT OLIVER.¹

Instruction in the applications of radiology in the diagnosis and treatment of disease is given very largely in collaboration with the several clinical departments.

FOURTH YEAR

TUMOR CLINIC. (See Surgery 45 for description.) One hour a day for four weeks. 32 hours.

DIAGNOSTIC RADIOLOGY. Eight hours a week for four weeks. 32 hours.

* In Military Service.

** In National Service.

¹ July 1, 1945 to March 31, 1946.

ELECTIVE COURSE

50. *Clerkship in Radiology.* Not to exceed two students at one time may act as externes in the Department of Radiology. They will participate in all activities. Full time for four or eight weeks. All quarters.

THE MARY CULVER DEPARTMENT OF SURGERY

(The Department of Surgery includes General Surgery, Orthopedic Surgery, Neurological Surgery, and Genitourinary Surgery.)

BIXBY PROFESSOR EVARTS A. GRAHAM.

EMERITUS PROFESSORS VILRAY P. BLAIR, WILLARD BARTLETT.

PROFESSORS SACHS, SEELIG, CLOPTON, KEY, DALTON K. ROSE.

ASSOCIATE PROFESSORS COPHER, ELMAN, HEINBECKER, J. BARRETT BROWN,* WOMACK, FURLOW,* SCHWARTZ.

ASSISTANT PROFESSORS FISHER, EWERHARDT, DUFF S. ALLEN, CREGO, THEODORE P. BROOKES, DEAKIN, JOSTES,* ROWLETTE,* BYARS, WALTON, R. BARTLETT, BLADES,⁷ PROBSTEIN, KEYES, MCCARROLL, BRICKER,* CORDONNIER,* JOHN PATTON.

INSTRUCTORS SANFORD, HENRY S. BROOKES, JR., HAFFNER,* JORSTAD, HARBISON,⁶ WATTENBERG, POPPE, KELLY, LEYDIG, LISCHER,* F. MCDOWELL. LARGE,* ECKERT, GORDON MOORE, O. P. HAMPTON, COSTELLO.⁵

ASSISTANTS THIEME, ROCHE,* ALTHAUS, CUTLER, FELLER, KOPP, PRUETT, HEIFETZ, BRUCE MARTIN,* HALL, BARNHART, FISH,* GRUENFELD, CRIDER, MODLIN, ROULHAC, VILRAY P. BLAIR, JR.* OAKES,* PARKER,* H. SCHWARZ, FRYER,* MAYER,* EISELE,* KRAFT,* KLINGE,* LETTERMAN,* LOCKHART, MUELLER,* O'REILLY,* PECK,* ASHLEY,* HATCH,¹ KEMLER,* A. J. MCDOWELL,* PETRY,¹ DECKER,¹ FUKUSHIMA,¹ SARNAT, BUTCHER,¹ CHAMNESS,¹ GILLESPIE,¹ HANKS,¹ SAPPINGTON,¹ BLANCHET,¹ FOX,² VERDA.²

ASSISTANT AND FELLOW RIFKINSON.

FELLOWS BURFORD,* SHEFTS,* PIANETTO,* ABBOTT,³ RENAULT, PACHECO, ODELL, MERCADO, BILFELDT, NICHOLLS, GERMAIN,⁴ TRUPP.⁵

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. In the junior year eight weeks (one quarter) are spent in the clinical clerkship in the Barnes and St. Louis Children's Hospitals which immediately

¹ July 1, 1945 to March 31, 1946.

² Effective September 1, 1945.

³ Resigned August 31, 1945.

⁴ Effective October 8, 1945.

⁵ Effective November 15, 1945.

⁶ Resigned December 10, 1945.

⁷ Resigned December 31, 1945.

adjoin the Medical School. The clinical clerks become familiar with other cases than their own through the daily ward conferences. They are offered the opportunity of seeing all operations and they are encouraged to participate as assistants in practically all of the operations performed upon their patients to whom they have acted as clerks. Although each student will have for personal study a few cases representing the various specialties of surgery the principal instruction is concentrated upon general surgery, especially that sort of case which the general practitioner frequently encounters. Special instruction in history writing, in the examination of the patient and in various diagnostic and therapeutic techniques is given to small groups by the resident and assistant resident house officers. These small groups are in the nature of tutorial classes. Three junior students at a time, while they are clerks, spend a night at City Hospital No. 1 for emergency work. During the quarter each student will spend four nights at the City Hospital.

During the junior year also a systematic survey of clinical general surgery is given in a conference and recitation course in which the class is divided into two sections in order to provide a more personal contact between the instructor and the students. There is likewise a separate course devoted to a systematic review of fractures and traumatic surgery.

Surgical pathology, formerly given in the senior year, is being changed to a junior year course.

In the senior year the student works in the outpatient department. He also spends a part of his time at the Homer Phillips Hospital. Intensive instruction in malignant disease is given at the tumor clinic which the senior students attend one hour daily for four weeks.

SECOND YEAR

20. INTRODUCTION TO SURGERY. A laboratory, demonstration and lecture course in which are studied certain fundamental processes of physiology, chemistry and pathology as applied to surgery. The course includes the demonstration of patients illustrating various points under discussion. Four hours weekly during the third trimester. 44 hours.

(Dr. Heinbecker)

THIRD YEAR

30. SURGICAL RECITATIONS. A weekly discussion during the first and second quarters on assigned surgical reading. Part of Conjoint Medicine. The principles of surgery and many of the more common surgical conditions are considered. Standard textbooks and selected articles from the recent literature are freely consulted. The class is divided into two sections for this course. 22 hours.

(Drs. Elman, Heinbecker)

31. FRACTURES. Lectures on the more common fractures. Part of Conjoint Medicine. This systematic presentation of the subject is in addition to the extensive clinical experience in fractures offered in the wards of the City Hospital. One hour weekly during the third quarter. 8 hours.

(Dr. Key)

32. **SURGICAL CLINIC.** A weekly exercise throughout four quarters. Patients presenting the more usual general surgical conditions are demonstrated and their diagnostic and therapeutic problems are discussed. Students of the fourth year also attend this clinic. 32 hours.
(Dr. Graham)

33. **SURGICAL CONFERENCE.** The utilization of physical examination in the diagnosis and interpretation of some of the more common surgical diseases and their underlying nature, illustrated by patients, is discussed. A weekly exercise during four quarters. 32 hours.
(Dr. Sachs)

34. **SURGICAL WARDS.** For one quarter the student serves as an assistant in the surgical wards at the Barnes, St. Louis Children's and McMillan Hospitals. On every morning except Thursday, one hour conferences on selected patients are held. General and special surgical cases are discussed by members of the staff. Following this conference the students spend the remainder of the day in the wards of the hospital. The students take the case histories and make physical examinations and the usual laboratory examinations. They assist at some of the operations and do some of the surgical dressings. The students also attend autopsies performed on the cases studied by them and are required to be present at the weekly 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. On three afternoons a week the resident and assistant resident meet the students in an informal conference at which time various questions that 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 him are sufficiently diversified to afford him an accurate perspective of surgery. The entire group attends a two hour demonstration of patients with fractures and other acute conditions every other week at City Hospital No. 1, or a total of 4 sessions during the quarter. 168 hours.
(Various members of the staff)

35. **SURGICAL PATHOLOGY.** Weekly exercises of two hours for four quarters, at which time both early and late pathological changes are considered from the standpoint of their clinical manifestations. Pathological material from the operating room and the museum is studied both in the gross and microscopically. 72 hours.
(Dr. Womack)

36a. **ORTHOPEDECS.** Groups of six students are assigned to work in the Orthopedic Outclinic four mornings a week for two weeks. In addition, the entire group of twelve students attends a conference in orthopedic surgery at the Shriners' Hospital for Crippled Children two hours a week for four weeks. 20 hours.
(Drs. Key, Crego and Staff)

36b. **GENITOURINARY DISEASES.** Special exercises and conferences in genitourinary diseases are given to groups of six students two hours

a day, four days a week, for two weeks. Some of the time is spent in the Outpatient Department and the rest of it in the hospital. Special emphasis is placed on simple diagnostic procedures, catheterization and the evaluation of abnormal findings in the examination of patients. 16 hours. (Dr. Rose and Staff)

36c. PROCTOLOGY. Demonstration of various lesions about the rectum and anus are given in the Outpatient Department to groups of six students. 4 hours. (Dr. Brookes)

36d. NEUROSURGERY OUTCLINIC. Groups of six students attend the Neurosurgical Outclinic where patients with ambulatory neurosurgery conditions are demonstrated. 4 hours. (This course will not be offered during the current year.)

37. TUMOR CLINIC. Groups of twelve students attend the Tumor Clinic three days a week for four weeks from 11 until 12 o'clock. The clinic is so arranged that the students see patients with the more common types of cancer. Methods of diagnosis, the fundamentals underlying treatment and the pathology of the condition are discussed. Particular consideration is given to various types of radiation therapy. 12 hours.

FOURTH YEAR

40. SURGICAL CLINIC. A weekly exercise throughout four quarters. See Course 32. Students of the third year also attend this clinic. 36 hours. (Dr. Graham)

41. OUTPATIENT CLINICS. Twelve students are assigned to the outpatient clinics, 6 mornings a week from 9 to 12; Monday, Wednesday and Friday at the Homer Phillips Hospital, Tuesday, Thursday and Saturday at the Washington University Clinics. The students serve as clerks to outpatients under direction of members of the visiting staff and assist in carrying out minor surgical procedures.

(Drs. Elman, Fisher, Eckert, Probststein, Heifetz, Verda)

ELECTIVE COURSES

50. *Neurosurgery*. Eight lectures in the second quarter of the fourth year. The lectures comprise a review of the anatomy and physiology of the nervous system as applied to neurosurgery and a discussion of the principal conditions encountered in this field.

(Drs. Sachs, Furlow and Staff)

51. *Postoperative Care*. Eight lectures and demonstrations in the fourth quarter of the fourth year. Both the normal and complicated postoperative developments are discussed.

(Dr. Allen)

52. *Surgical Pathology*. Two students full time for eight weeks, all quarters. The elective will consist of a correlation of the clinical records of hospital patients with the pathological findings. Time will be devoted to current surgical journals as related to surgical pathology as well as a brief review of pathological techniques.

(Dr. Womack)

53. *Washington University Clinics*. General surgery, eight weeks for four students, mornings or afternoons. 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.

54 (511). *Research in Surgery*. Eight weeks full time. This elective is for those students who have been carrying on surgical research in their spare time the previous year and who wish to devote their entire time toward the completion of their problem. (Dr. Graham)

55. *State Cancer Hospital*. Three students to serve as clinical clerks at the State Cancer Hospital, Columbia, Missouri, full time, eight weeks. The duties assigned the student will be the routine duties required of any clinical clerk consisting of both in and outpatient work, particularly related to malignant disease. Application must be made directly to the State Cancer Commission.

56. *Anesthesia*. One or two students. Eight weeks, full time. Since the surgical operative schedules begin early each morning the hour to report will be 7 o'clock. This will enable the student to inspect and test mechanical equipment prior to its use. The student will be assigned to certain nights on call duty with the supervisor to take emergency cases which arise. The course embraces a special training in the practical administration of anesthetics by approved modern techniques, this instruction taking place daily, except Sundays, during the weekly schedules in which the student participates in the operating room. The theoretical aspects are covered by specific periods of class room instruction followed by examination at stated intervals. The administration of ether, nitrous oxide-oxygen, ethylene, cyclopropane and basal anesthetics is taught and practiced. (Miss Lamb)

57. *Urology Clerkship in Barnes Hospital*. One student, mornings for eight weeks. (Dr. Rose)

58. *Physical Medicine*. Four students. Mornings for four or eight weeks. (Dr. Ewerhardt)

59. *Externships*. Three senior students are permitted to chose as their electives externships in the Barnes and St. Louis Children's Hospitals. Arrangementst should be made with Dr. Gordon Moore.

MISCELLANEOUS COURSES

MEDICAL JURISPRUDENCE. A course given in the fourth year embracing medical evidence and testimony; expert testimony; dying declarations; rights of medical witnesses; establishing identity from living and dead bodies; sudden death from natural causes and by violence; criminal acts determined by medical knowledge; the legal relation of physician to patients and the public; insanity, and malpractice. 11 hours.

(Mr. Crowds)

ELECTIVE COURSE

Professional Conduct and Medical Economics. An elective course in which the following subjects are discussed: the young physician and his problems; group medicine and specialization; ethical relations between physicians; organized medicine; birth control; quackery, fads, and cults; medical finance; industrial and contract practice; "systems" of practice in other countries; health insurance plans. 8 hours.

(Dr. Park J. White)

POST-GRADUATE COURSES

The Division for Post Graduate Medical Education offers courses of instruction in the preclinical and clinical subjects throughout the year. These are conducted by the Faculty of the School of Medicine and the Staff of the Allied Hospitals in the class rooms and laboratories of the School of Medicine and in the Allied Hospitals. The courses are designed to meet specific needs at various postgraduate levels. The following types of Post Graduate training are offered.

- I. Internships, Assistant Residencies and Residencies in the University Hospitals.
- II. Extern and Fellowship instruction in clinical departments, including residency experience.
- III. Graduate instruction in the Basic Sciences.
- IV. Graduate instruction in the Specialties.
- V. New Methods of Diagnosis and Therapy.
- VI. Continuation Courses for general practitioner and for specialist.

Bulletins and further information may be obtained from the Registrar or the Assistant Dean in charge of Post Graduate Courses.

DEGREES CONFERRED AT COMMENCEMENT

June 23, 1945

DOCTOR OF MEDICINE

NAME — INTERNSHIP

- Adams, John Pletch, B.S.—Wilmington General Hospital, Wilmington, Delaware.
 Andrew, William Fredrick, B.S.—Kansas City General Hospital, Kansas City, Missouri.
 Atwood, John Morris, A.B.—Union Memorial Hospital, Baltimore, Maryland.
 Baltrusch, Oscar William—St. Luke's Hospital, St. Louis, Missouri.
 Banton, Howard Stansell, Jr., B.S.—Hillman and Jefferson Hospital, Birmingham, Alabama.
 Bates, George Comer, A.B.—St. Luke's Hospital, St. Louis, Missouri.
 Beckmann, George Edmund, Jr., A.B.—U. S. Naval Hospital, Chelsea, Massachusetts.
 Bennett, Truett Vann—Missouri Baptist Hospital, St. Louis, Missouri.
 Bentley, Maxwell Dean, B.S.—Grace Hospital, Detroit, Michigan.
 Berg, Ralph, Jr., B.S. (cum laude)—Barnes Hospital, St. Louis, Missouri.
 Bergmann, Martin, A.B.—Jewish Hospital, St. Louis, Missouri.
 Bond, Robert Martin, B.S.—Virginia Mason Hospital, Seattle, Washington.
 Bopp, Henry William, Jr.—Barnes Hospital, St. Louis, Missouri.
 Brereton, Robert Loftus, A.B.—Department of Pathology, Washington University School of Medicine, St. Louis, Missouri.
 Bronson, Shael Stanley—Jewish Hospital, St. Louis, Missouri.
 Brown, James Andrew, B.S.—U. S. Naval Hospital, San Diego, California.
 Brown, Roger Williams, A.B.—U. S. Naval Hospital, Seattle, Washington.
 Bussmann, Donald William, A.B.—City Hospital, St. Louis, Missouri.
 Conrad, Marshall Baker, A.B.—St. Luke's Hospital, St. Louis, Missouri.
 Cowdry, Edmund Vincent, Jr., A.B.—City of Detroit Receiving Hospital, Detroit, Michigan.
 Croom, William Church, Jr., A.B.—Hillman and Jefferson Hospital, Birmingham, Alabama.
 Crouch, William Harvey, Jr., B.S.—St. Luke's Hospital, Kansas City, Missouri.
 Dabbs, Clyde Harwell, Jr., B.S.—Barnes Hospital, St. Louis, Missouri.
 Davis, James Othello, B.S., M.A., Ph.D.—Barnes Hospital, St. Louis, Missouri.
 Edison, Thomas George, A.B.—U. S. Naval Hospital, Chelsea, Massachusetts.
 Everett, Ernest Frank, Jr., A.B.—Minneapolis General Hospital, Minneapolis, Minnesota.
 Farrar, John Thruston, A.B.—St. Louis County Hospital, Clayton, Missouri.
 Fitzpatrick, Thomas James, B.S.—Wilmington General Hospital, Wilmington, Delaware.
 Franklin, Harold Alvin, A.B., B.S.—Jewish Hospital, St. Louis, Missouri.
 Gantt, Ernest Sneed, Jr., A.B.—City Hospital, St. Louis, Missouri.
 Gaunt, Frank Peyton, Jr., A.B.—U. S. Naval Hospital, San Diego, California.
 Geren, Betty Ben, B.S.—Boston Children's Hospital, Boston, Massachusetts.
 Gibson, Jay Ogilvie, B.S.—Maternity Hospital, St. Louis, Missouri.
 Good, James Tucker, A.B. (cum laude)—Barnes Hospital, St. Louis, Missouri.
 Guze, Samuel Barry—Barnes Hospital, St. Louis, Missouri.
 Hall, Robert Hubert—Groves Latter Day Saints Hospital, Salt Lake City, Utah.
 Henry, Margaret Lee Jones, A.B.—Department of Medicine, Washington University School of Medicine, St. Louis, Missouri.
 Herweg, John Courtright, B.S. (cum laude)—St. Louis Children's Hospital, St. Louis, Missouri.
 Hoff, Helmuth Elmer, A.B.—Evangelical Deaconess Hospital, Detroit, Michigan.
 Hood, Thomas Knight, A.B.—U. S. Naval Hospital, Shoemaker, California.
 Ivins, Samuel Paul, A.B.—Chester Hospital, Chester, Pennsylvania.
 Jacobs, Charles Christ, Jr., A.B.—Milwaukee Hospital, Milwaukee, Wisconsin.
 Johnson, Norton Eric, A.B., B.S.—St. Joseph's Mercy Hospital, Detroit, Michigan.
 Johnson, William Fray, B.S.—St. Luke's Hospital, St. Louis, Missouri.
 Johnstone, John T., Jr., A.B.—Touro Infirmary, New Orleans, Louisiana.
 Kalmanson, George Maurice, B.S., M.S., Ph.D., Cedars of Lebanon Hospital, Los Angeles, California.
 Kelly, Frank Joseph—Barnes Hospital, St. Louis, Missouri.
 Kilker, Donald Edwin, A.B.—Missouri Baptist Hospital, St. Louis, Missouri.
 Koppenbrink, Walter Edwin, Jr., A.B.—Kansas City General Hospital, Kansas City, Missouri.
 Kronenberg, Rose Tesser, A.B.—Cambridge Hospital, Cambridge, Massachusetts.
 Lambiotte, Louis Oscar, B.S. (cum laude)—Barnes Hospital, St. Louis, Missouri.
 Leight, Leonard, A.B.—Jewish Hospital, Brooklyn, New York.
 Lewis, Ceylon Smith, Jr., A.B.—Salt Lake County General Hospital, Salt Lake City, Utah.
 Lockett, Edgar Nathaniel, Jr.—U. S. Naval Hospital, Oakland, California.
 Luce, Ralph Raymond, B.S., M.S.—City Hospital, St. Louis, Missouri.
 Mackey, Oliver Monroe, Jr., B.S.—Evangelical Deaconess Hospital, Spokane, Washington.
 Marr, James Carlton, Jr., A.B.—Huntington Memorial Hospital, Pasadena, California.
 Maxwell, Roscoe Steele, A.B.—City Hospital, St. Louis, Missouri.

- Mitchell, Harold Hugh, B.S., M.S.—Cedars of Lebanon Hospital, Los Angeles, California.
- Musser, Richard Eric, B.S.—Tacoma General Hospital, Tacoma, Washington.
- Olson, Arthur John—Tacoma General Hospital, Tacoma, Washington.
- Pascoe, James John, B.S.—City Hospital, St. Louis, Missouri.
- Penninger, William Holt, B.S.—The Christ Hospital, Mount Auburn, Cincinnati, Ohio.
- Petsch, Kenneth Ray, B.S., A.B.—Northwestern Hospital, Minneapolis, Minnesota.
- Price, Edwin Fletcher, Jr., A.B. (cum laude)—Barnes Hospital, St. Louis, Missouri.
- Prothro, George William, B.S.—Lincoln General Hospital, Lincoln, Nebraska.
- Ramsey, Robert Henry, B.S.—Barnes Hospital, St. Louis, Missouri.
- Reeves, Gerald Andrew, A.B.—City Hospital, St. Louis, Missouri.
- Rhodes, Jack Richard, B.S.—St. Joseph's Memorial Hospital, Omaha, Nebraska.
- Rider, George Long, A.B.—City Hospital, St. Louis, Missouri.
- Ritzmann, Leonard Walter, A.B. (cum laude)—Barnes Hospital, St. Louis, Missouri.
- Roberts, John Payne, A.B.—City Hospital, St. Louis, Missouri.
- Ruby, Robert Holmes, B.S.—Woman's Hospital, Detroit, Michigan.
- Rupe, Clarence Earl, A.B.—Woman's Hospital, Detroit, Michigan.
- Sanneman, Everett Herman, Jr.—City Hospital, St. Louis, Missouri.
- Schulz, Clarence Gallagher—Lutheran Hospital, St. Louis, Missouri.
- Shaw, William John, Jr., B.S., A.B.—Kansas City General Hospital, Kansas City, Missouri.
- Shier, Barbara Sanderson, A.B.—No Internship.
- Smith, Benjamin Franklin, Jr.—Evangelical Deaconess Hospital, St. Louis, Missouri.
- Smith, Charles Graening—U. S. Naval Hospital, San Diego, California.
- Spitze, Edward Christian, Jr., A.B.—Lutheran Hospital, St. Louis, Missouri.
- Stacey, Wallace Raymond, A.B., B.S.—Hillman and Jefferson Hospital, Birmingham, Alabama.
- Stephenson, Hugh Edward, Jr., B.S.—University of Chicago Clinics, Chicago, Illinois.
- Strong, Richard Milton, B.S.—St. Luke's Hospital, Kansas City, Missouri.
- Sweazy, Donald Lee—Butterworth Hospital, Grand Rapids, Michigan.
- Sylvester, Robert Francis, Jr., A.B.—Starling-Loving Memorial Hospital, Columbus, Ohio.
- Taylor, Eugene Emerson, B.S. (cum laude)—Barnes Hospital, St. Louis, Missouri.
- Thatcher, Alan Hall—U. S. Naval Hospital, Santa Margarita Ranch, Oceanside, California.
- Tuthill, Sanford Werner, A.B.—St. Luke's Hospital, St. Louis, Missouri.
- Twin, Edward James, A.B., B.S.—Research Hospital, Kansas City, Missouri.
- Ubben, John Whitford, A.B.—Evangelical Deaconess Hospital, Detroit, Michigan.
- Van Petten, George Turell—U. S. Naval Hospital, Sampson, New York.
- Vernon, James Taylor, A.B.—Charity Hospital of Louisiana, New Orleans, Louisiana.
- Washington, Edward Lee, A.B., B.S.—City Hospital, St. Louis, Missouri.
- Waters, Hugh Robert, B.S.—Presbyterian Hospital, Chicago, Illinois.
- Weinhaus, Robert Stanley (cum laude)—Jewish Hospital, St. Louis, Missouri.
- Winkler, Ralph Kenneth, A.B.—No internship.
- Wissner, Seth Ernst, A.B.—Evangelical Deaconess Hospital, St. Louis, Missouri.
- Wolfson, Charles, A.B., Ph.D.—Jewish Hospital, St. Louis, Missouri.
- Wood, Gary Bedford—St. Francis Hospital, Wichita, Kansas.

Total, 100.

PRIZES AWARDED AT COMMENCEMENT

June 23, 1945

GILL PRIZE IN ANATOMY

Virgil Roland Bleisch

ALPHA OMEGA ALPHA BOOK PRIZE

John Courtwright Herweg, B.S.

HOWARD A. MCCORDOCK BOOK PRIZE

Alonza Lewis Farr, B.S.

NU SIGMA NU AWARDS

Virgil Roland Bleisch

Alonza Lewis Farr, B.S.

FOURTH YEAR CLASS (July, 1945—March, 1946)

- Adams, Raymond John, B.S., State Coll. of Wash., '40—Seattle, Wash.
 Bailey, Drennan, University City, Mo.
 Barrow, Jack—Carbondale, Ill.
 Bates, Raymond Robert—Tucson, Arizona
 Bonebrake, MacDonald—Salem, Mo.
 Brownlie, Arthur Roy, Jr.—St. Louis, Mo.
 Bubliss, Mary Cheaney, A.B., Washington University, '41—St. Louis, Mo.
 Busch, Ralph Bering, Jr.—Webster Groves, Mo.
 Chamberlain, Gilbert Lee, Jr.—New Franklin, Mo.
 Cornfield, Morris—University City, Mo.
 Crouch, Warner Latta, Jr.—Fairview, Ill.
 Deane, Garrett Earle, A.B., Westminster Coll., '43—Clayton, Mo.
 De Huff, Ann Wilson, B.A., Univ. of N. M., '36; B.S., Simmons Coll., '37; M.S.,
 Simmons Coll., '38—Santa Fe, New Mexico
 Dorrough, Bernell Fred, B.S., Birmingham-Southern Coll., '43—Birmingham, Ala.
 Elders, Frank Alvin, Jr.—DeSoto, Mo.
 Elliott, Gladden V., A.B., Central Coll., '43—Cabool, Mo.
 Ernst, Roland Percy—Kirkwood, Mo.
 Ewing, George Marvin—Brookfield, Mo.
 Farrier, Robert Milton—East St. Louis, Ill.
 Folsom, James Cannon—Grove Hill, Alabama
 Forman, Carolyn Wood, A.B., Agnes Scott Coll., '40; M.A., Emory Univ., '43—
 Birmingham, Alabama
 Funsch, Robert Edwin—Richmond Heights, Mo.
 Gallagher, Donald MacNaughton—Rossford, Ohio
 Gibstine, Marvin Harold—St. Louis, Mo.
 Hall, Gilbert Richard—Spirit Lake, Iowa
 Harrison, Wiley Haxton, A.B., Grinnell Coll., '42—Guthrie Center, Iowa
 Hawkins, Richard Dale, A.B., De Pauw Univ., '43—Bedford, Ind.
 Hayward, Boyd Edwards, B.S., Univ. of Chicago, '42—Logan, Utah
 Hoffman, Howe Cummings—Geyersville, California
 Inglis, Ervine Peter, Jr., A.B., Grinnell Coll., '43—Webster Groves, Mo.
 Ishii, Albert Hiroshi—Lihue, Kauai, Hawaii
 Jackson, James Oliver, B.S., Univ. of Mo., '44—Kansas City, Mo.
 Johnson, Eugene Parr—Casey, Ill.
 Johnson, Melvin Joseph, B.A., Augustana Coll., '40—Roslyn, S. Dak.
 Jolley, Harold Numan, A.B., Washington Univ., '43—Wood River, Ill.
 Jones, Ralph Homer, A.B., Mo. Valley Coll., '43; B.S., Univ. of Mo., '44—
 Marshall, Mo.
 Kendrick, John Fox, Jr., A.B., Univ. of N. C., '43—Raleigh, N. C.
 Kieffer, Victor Barcroft, A.B., Washington Univ., '43—University City, Mo.
 King, George Wales—St. Louis, Mo.
 Kirkham, Lindsay Jack—Independence, Mo.
 Koehler, John William—Webster Groves, Mo.
 Lanier, Andrew Stephens, B.A., Washington and Lee Univ., '42—Alexandria, Va.
 Lanier, Patricia Farnsworth, A.B., Washington Univ., '40—Webster Groves, Mo.
 Lee, Robert Edward—Webster Groves, Mo.

- Leeper, Claude Kirkpatrick, A.B., B.S. in Ed., S. E. Mo. St. Teachers Coll., '42; B.S., Univ. of Mo., '44—University City, Mo.
 Luer, Carlyle August—St. Louis, Mo.
 Lunceford, Tennie Mae, A.B., Univ. of Alabama, '41—Lanett, Ala.
 Magallon, Dorothy Tharp—North Little Rock, Arkansas
 Martt, Jack MacPherson, B.S., Univ. of Mo., '44—Clayton, Mo.
 McConnell, Robert Blythe—St. Joseph, Mo.
 McGrath, John Michael, A.B., B.S., Univ. of Mo., '44—Nevada Mo.
 Merrill, Robert Scott, B.S., Hamilton Coll., '34—Milwaukee, Wis.
 Moffett, James B., B.S., Univ. of Mo., '44—Dexter, Mo.
 Nauert, Nicholas Henry, Jr.—St. Louis, Mo.
 Nelson, Robert Eugene—Pierre, S. Dak.
 Nicolai, Charles Herbert, A.B., Washington Univ., '43—St. Louis County, Mo.
 Niedermeyer, Edward Louis, A.B., Mo. Valley Coll., '41; B.S., Univ. of Mo., '44—Addieville, Ill.
 Old, Jacob Wise, Jr., B.S., Virginia Polytechnic Inst., '42—Joplin, Mo.
 O'Neal, Lawrence Wayne—Sunflower, Kansas
 Owen, James Wilson, Jr.—Skiatook, Oklahoma
 Patt, Walter Henry, Jr., A.B., Washington Univ., '43—St. Joseph, Mo.
 Perry, Horace Mitchell, Jr.—Woodmere, New York
 Petrakis, Nicholas Louis, A.B., Augustana Coll., '44; B.S., Univ. of S. Dak., '44—Sioux Falls, S. Dak.
 Ramsey, Claire Conerly, B.S., Howard College, '44—Jackson, Ala.
 Rauber, Albert Paul, B.S., Capital Univ., '43—Auburn, Ala.
 Rhoades, Albert Leonard, B.S., Monmouth Coll., '41—Belle Vernon, Pa.
 Richardson, Glenn Burton, B.S., Ala. Polytechnic Inst., '43—Montgomery, Ala.
 Roberts, Stanley Eugene, A.B., Univ. of Mo., '43; B.S., Univ. of Mo., '44—Gallatin, Mo.
 Rutledge, Robert Cunningham, Jr., A.B., Rice Institute, '42—Houston, Texas
 Schmidt, Arthur Earl, Jr.—St. Louis, Mo.
 Schropp, Rutledge Clifton—Des Moines, Iowa
 Schuman, Arnold, A.B., Washington Univ., '42—St. Louis, Mo.
 Scott, Walter Francis, Jr., A.B., Univ. of Va., '42—Birmingham, Ala.
 Seabaugh, Loy Rush—Jackson, Mo.
 Seabaugh, William O. L., A.B., Univ. of Mo., '42; B.S., Univ. of Mo., '44—Cape Girardeau, Mo.
 Shapleigh, John Blasdel, II—St. Louis, Mo.
 Sisk, James Cash, A.B., Washington Univ., '43—St. Louis, Mo.
 Slonim, Nathaniel Balfour—St. Louis, Mo.
 Smith, Theodore John Hubert, B.S., Univ. of S. Dakota, '44—Stamford, Conn.
 Snyderman, Sanford Charles—Kansas City, Mo.
 Spain, Robert Spruill, B.S., Univ. of N. C., '44—Greenville, N. C.
 Thiel, Stanley William—Ritzville, Wash.
 Vellios, Frank—St. Louis, Mo.
 Vermillion, Crofford Oliver, A.B., De Pauw Univ., '39—Anderson, Ind.
 Wald, Stanley Marvin—The Bronx, New York
 Walker, Willard Bartlett—St. Louis County, Mo.
 Warshauer, Albert David, A.B., Univ. of N. C., '43—Wilmington, N. C.
 Webster, Robert Nelson—Northwood, N. Dak.
 Weiss, William Harper, A.B., B.S., West Virginia Univ., '44—Fairmont, W. Va.
 Wiedershine, Leonard Jack, A.B., Washington Univ., '43—St. Louis, Mo.
 Wieman, Harry Kramer, A.B., Univ. of Mo., '43; B. S., Univ. of Mo., '44—DeSoto, Mo.
 Wiggins, George Edward, B.S., Univ. of Mo., '44—West Plains, Mo.
 Williams, Joseph Campbell—Kansas City, Mo.
 Wilson, Siver Allen—Bradentown, Florida

Total, 94.

THIRD YEAR CLASS (July, 1945—March, 1946)

- Abele, William Arved, B.S., Central Coll., '45—Boonville, Missouri.
 Alexander, Jack Wingate, A.B., Univ. of Alabama, '44—Fayette, Alabama.
 Bechtold, John Edmond—Belleville, Illinois.
 Behrhorst, Carroll Dean, A.B., Washington Univ., '43—Brazilton, Kansas.
 Bernard, Harvey Rolland—Lemay, Missouri.
 Brody, Arnold Jason—Columbia, Missouri.
 Brower, Thomas Dudley, B.S., Central Coll., '45—Mexico, Missouri.
 Brown, Paul Franklin—East St. Louis, Illinois.
 Bryan, Theodore Louis—St. Louis, Missouri.
 Busiek, Paul Joseph, B.S., Drury Coll., '45—Springfield, Missouri.
 Clay, Charles Grover—Pleasant Hill, Missouri.
 Cockrell, Beverly Randolph, Jr.—Fresno, California.
 Coffelt, Carl Frederick, Jr.—Crete, Illinois.
 Cohnberg, Rosellen Elaine, A.B., Washington Univ., '44—St. Louis, Missouri.
 Cornblath, Marvin—St. Louis, Missouri.
 Coulter, Robert Lee, Jr.—St. Louis, Missouri.
 Counts, Robert Milton—Richmond Heights, Missouri.
 Dankner, Arnold—Clayton, Missouri.

- Davis, Jack Manley, A.B., B.S., Univ. of Missouri, '45—Wheeling, Missouri
 Deer, William C., Jr., B.S., Univ. of S. D., '45—Pierre, South Dakota.
 DeLong, Chester Wallace—Seattle, Washington.
 Dirks, Kenneth Ray—Wichita, Kansas.
 Dunkel, William Caldwell, Jr., B.S., Univ. of Mo., '45—Tibitha, Virginia.
 Edgerton, Winfield Dow—Poplar Bluff, Missouri.
 Fadem, Robert Stanley—St. Louis, Missouri.
 Fanney, Grafton Clinton, Jr., B.S., Univ. of N. C., '44—Scotland Neck, N. C.
 Farr, Alonza Lewis, B.S., Millsaps Coll., '41—Edwards, Mississippi.
 Forsyth, Bruce Todd—Clayton, Missouri.
 Garner, Robert Carlyle—Webster Groves, Missouri.
 Gibson, Glen Gale, B.S., Univ. of Kans., '41, B.S. in Med., Univ. of S. D., '45—
 Sioux Falls, South Dakota.
 Gieselman, Ralph Victor—St. Louis County, Missouri.
 Goldenberg, David—St. Louis, Missouri.
 Goldring, Sidney—St. Louis, Missouri.
 Gregory, Jack A., Jr., A.B., Univ. of K. C., '44, B.S., Univ. of Mo., '45—Kansas
 City, Missouri.
 Greiner, Theodore Herman—St. Louis, Missouri.
 Handler, Fred Phillip—St. Louis, Missouri.
 Hankey, Daniel Dwight—Council Bluffs, Iowa.
 Harrison, Charles William—Nokomis, Illinois.
 Harrison, Virginia—Mt. Vernon, Illinois.
 Hausman, William—Brooklyn, New York.
 Hilgers, John Edward, A.B., Fort Hays State Teachers Coll., '45—Plainville,
 Kansas.
 Hofsommer, Helen Louise—Webster Groves, Missouri.
 Hurder, William Paul, A.B., Univ. of Ala., '40—Evansville, Indiana.
 Jankowski, Shirley Schaffer, A.B., Univ. of Wisc., '43—Milwaukee, Wisconsin.
 Jantz, Walter Leon, A.B., Univ. of Washington, '41—Walla Walla, Washington.
 Kacalleff, Louis Dimitar, A.B., Westminster Coll., '42—Madison, Illinois.
 Keely, Thomas, Jr.—Springfield, Missouri.
 Kellogg, Huston Glenn, B.S., Yale Univ., '44—Los Angeles, California.
 King, John DeWitt, B.S., Univ. of Mo., '45—St. Louis, Missouri.
 Koffler, Irving Aaron, A.B., Univ. of Ala., '44—Mobile, Alabama.
 Landau, William Milton—St. Louis, Missouri.
 Launch, Robert Michael—Webster Groves, Missouri.
 Long, Frank Barnes, Jr.—Sedalia, Missouri.
 Love, William DeLoss—Kirkwood, Missouri.
 Ludwig, James Behan, A.B., Stanford Univ., '44—St. Louis, Missouri.
 Martin, Frederick William, Jr.—St. Louis, Missouri.
 Mathes, Sydney Bernard—St. Louis, Missouri.
 McBride, Bert Harris—St. Louis, Missouri.
 McFarlane, John Alvin, Jr.—Elko, Nevada.
 McIntyre, Homer Harry, Jr.—University City, Missouri.
 McLin, Leonard Dale, A.B., Univ. of Ala., '44—Fort Lyon, Colorado.
 McNeel, Lee Andrew, Jr., B.S., Univ. of Mo., '45—Webb City, Missouri.
 McNeil, James Lewis—Winfield, Kansas.
 Morgan, Margaret Agnes, A.B., '44; B.S., '45, West Virginia Univ.—Beckley,
 West Virginia.
 Namrow, Arnold, A.B., Washington Univ., '43—Miami Beach, Florida.
 Newport, Jack Winston—Springfield, Missouri.
 Nuetzel, John Arlington—E. St. Louis, Illinois.
 Peden, Burnet Wilcox, A.B., Amherst Coll., '43—University City, Missouri.
 Perry, William David, A.B., N. E. Mo. St. Teachers Coll., '43; B.S., Univ. of Mo.,
 '45—Mound City, Missouri.
 Phillips, Vol Keeney—Kirkwood, Missouri.
 Rainey, Robert, B.S., Yale Univ., '44—St. Louis, Missouri.
 Rapp, Harold Burnett, A.B., Washington Univ., '42—North Kansas City, Mo.
 Regan, William Whitfield, B.S., Univ. of Mo., '45—Columbia, Missouri.
 Rhodes, Helen Hunter, A.B., Univ. of Ala., '43—Mobile, Alabama.
 Rodgers, Dorothy Llewellyn, A.B., W. Va. Univ., '43—Morgantown, W. Va.
 Russell, Henry Thomas—Sayre, Oklahoma.
 Sato, George—Rivers, Arizona.
 Schneider, Richard Frederick, A.B., Washington Univ., '44—E. St. Louis, Illinois.
 Schwartz, Ely, B.S., Univ. of Mo., '45—Rolla, Missouri.
 Shamblyn, John LaFayette, Jr.—Tuscaloosa, Alabama.
 Sheinbein, Milton—University City, Missouri.
 Shintani, Juro—Rivers, Arizona.
 Simpson, William Loyal, B.S., Univ. of Chicago, '34; Ph.D., Univ. of Chicago, '38
 —Webster Groves, Missouri.
 Smith, Albert Goodin—Bonne Terre, Missouri.
 Smith, Roger Alexander III—Raleigh, North Carolina.
 Smyth, Albert Gerry—Quincy, Illinois.
 Stallard, Donald Julian, B.S., Univ. of Mo., '45—St. Joseph, Missouri.
 Stewart, Donald Bailey—Clayton, Missouri.
 Stutzman, Leon, A.B., West. Va. Univ., '44; B.S., West Va. Univ., '45—Shep-
 herdstown, West Virginia.
 Tanner, Robert Harvey, B.S., Univ. of Mo., '45—Jefferson City, Missouri.

Taylor, James William, Jr.—Belleville, Illinois.
 Tevis, William Wade, A.B., Univ. of Wichita, '44—Wichita, Kansas.
 Thomas, Miles Evered, B.S., Univ. of Mo., '45—Kansas City, Missouri.
 Wallace, Robert Nathan, B.S., Univ. of Mo., '45—Ava, Missouri.
 Weaver, Richard Gray—Wichita, Kansas.
 Weigel, Arthur Eugene—St. Louis, Missouri.
 Weygandt, Glenn Richard, B.S., Univ. of Mo., '45—Joplin, Missouri.
 Willoughby, James Whisner, B.S., Univ. of Mo., '45—Norborne, Missouri.
 Wood, Edward Pratt—Toledo, Ohio.
 Worth, Winfield Augustus, Jr., B.S., Univ. of N. C., '44—Elizabeth City, N. C.
 Total, 100.

SECOND YEAR CLASS (July, 1945-March, 1946)

Askerman, Helen, A.B., Wheaton Coll., '36—Munnsville, New York.
 Allen, Joseph Hunter—Sikeston, Missouri.
 Arpe, Sarah Louis—St. Louis, Missouri.
 Barritt, Clay Franklin—Webster Groves, Missouri.
 Behrens, Donald Theodore—St. Louis, Missouri.
 Bench, Robert Kenneth—Long Beach, California.
 Berry, Paul Thomas—Kane, Illinois.
 Bessman, Alice Neuman, B.A., Smith Coll., '43—Washington, D. C.
 Birenbaum, Aaron—St. Louis, Mo.
 Bleisch, Virgil Roland—Trenton, Illinois
 Bragdon, Douglas Estes, B.S., Bates Coll., '40; M.A., Harvard Univ., '41—Fall
 River, Mass.
 Brechner, Verne Lonell—Long Beach, Calif.
 Brown, James Trig—Dewey, Oklahoma
 Burkhardt, Betty Jane—St. Louis, Mo.
 Burroughs, Lyle Wendell, B.S., N. E. Mo. St. Teachers Coll., '44—Kirksville, Mo.
 Burstein, Robert—University City, Mo.
 Catanzaro, Francis Joseph—St. Louis, Mo.
 Chambers, George Matthew—Peoria, Illinois
 Clark, Ernest James—Cedar Vale, Kansas
 Clark, Helen Estelle, B.S., Univ. of Wyoming, '44—Paris, Texas
 Cohen, Richard Raymond—St. Louis, Mo.
 Conn, James Keener, Jr.—St. Cloud, Florida
 Droegemueller, Clarence Fredrick, A.B., Washington Univ., '44—Birnamwood,
 Wisconsin
 DuBois, Hubert Lee, A.B., Central Coll., '42—Auxvasse, Mo.
 Dunn, Robert Edgar—Ladd, Illinois
 Epp, Milferd John—Henderson, Nebraska
 Falzone, Joseph Andrew, Jr.—Clayton, Mo.
 Friedman, Robert Henry, Clayton, Mo.
 Garfinkel, Bernard Theodore—Poplar Bluff, Mo.
 Gaunt, William Danforth—Webster Groves, Mo.
 Gentry, John Tilmon, A.B., Washington Univ., '44—St. Louis, Mo.
 Gibb, Robert Pearse, B.S., Washington St. Coll., '44—Bellingham, Wash.
 Gould, Purdue Leighton—St. Louis, Mo.
 Greditzer, Arthur S.—Webster Groves, Mo.
 Guterman, David Albert—Worcester, Mass.
 Hall, Joe Bill—Checotah, Oklahoma
 Harting, Hugh Richard—St. Louis, Mo.
 Haynes, Robert Clark, Jr.—Marshall, Mo.
 Hensel, Ralph Richard—St. Louis, Mo.
 Hindall, Boyd Crawford—Muncie, Indiana
 Huck, Richard Felix, Jr.—Quincy, Illinois
 Johnson, David Spires—Jerseyville, Illinois
 Johnson, Richard Boyd—Richmond Heights, Mo.
 Jones, Philip Newton—Billings, Montana
 Jordan, Stanley Youngs—Bronxville, New York
 Kildow, John Oliver—Coeur d'Alene, Idaho
 Kiyasu, Robert Kunio—Rivers, Arizona
 Klein, Morton Wolf—St. Louis, Mo.
 Ledner, Robert Alan, B.A., Vanderbilt Univ., '43—Brooklyn, New York
 Maffei, Rudolph—Portland, Oregon
 Malin, Jacob—Elmhurst, New York
 Maze, Laurence Earl—St. Louis, Mo.
 McGowan, Hugh Densel—Cobb, Kentucky
 McLean, James Steven—Hammond, Indiana
 Medley, Keith Graham—Post Falls, Idaho
 Meiners, Theodore McGimsey—St. Louis, Mo.
 Mellis, Richard Thomas—St. Louis, Mo.
 Morgan, Daniel Lawrence, A.B., Univ. of K. C., '44—Kansas City, Mo.
 Norbury, Frank Barnes—Jacksonville, Illinois
 O'Neal, Patricia Lee, A.B., Washington Univ., '44—Maplewood, Missouri.
 Parkhill, Homer Carroll, B.S., Beloit Coll., '43—Pontiac, Illinois.
 Perkoff, Gerald Thomas—Clayton, Mo.

Petty, Robert William—Ogden, Utah
 Porporis, Arthur Anastasias—St. Louis, Mo.
 Post, Lawrence Tyler, Jr.—Clayton, Mo.
 Reichlin, Seymour—New York, New York
 Rifkin, Shale Marshall, A.B., Washington Univ., '44—St. Louis, Mo.
 Sartorius, Arthur George, A.B., Washington Univ., '43—St. Louis, Mo.
 Schuman, Stanley Harold—St. Louis, Mo.
 Sieker, Herbert Otto—Maplewood, Mo.
 Smith, Sidney—St. Louis, Mo.
 Stein, Arthur Henry—Webster Groves, Mo.
 Stokes, James Melvin—Poplar Bluff, Mo.
 Strode, Walter Sterling—Honolulu, Hawaii
 Sweiger, James Howard—Weatherby, Mo.
 Warden, Duane D.—Grant City, Mo.
 Watkins, Tom Keith—Farmington, Mo.
 Winkler, Lee Frederick—St. Louis, Mo.
 Wyloge, Elliott Ivan—St. Louis, Mo.

Total, 79.

FIRST YEAR CLAS (September, 1945 to June, 1946)

Au, Man Hing, B.S., '36; M.S., '39, University of Hawaii—Honolulu, T. H.
 Bauman, William Fenwick—Medford, Oregon.
 Benes, Doris May, B.S., Western Reserve Univ., '43—Cleveland, Ohio.
 Berg, Leonard, A.B. Washington Univ., '45—St. Louis, Mo.
 Bond, Marcus Buster—Enon, Mo.
 Bond, Rufus Jerry, A.B., '37; D.D.S., '41, Washington Univ.—Mt. Vernon, Ill.
 Breidenthal, Ward Brazelton—Kansas City, Mo.
 Bruns, Kenneth—St. Charles, Mo.
 Bumgarner, Roger William—Odessa, Mo.
 Byrne, Richard Carroll—Hartford, Conn.
 Cannon, William Joseph—Elsberry, Mo.
 Davis, Dorothy Jean, A.B., DePauw Univ., '45—Webster Groves, Mo.
 Downen, John Virgil—St. Louis, Mo.
 Felton, Warren Locker—Bartlesville, Okla.
 Fingerhood, Marvin George—St. Louis, Mo.
 Fischer, George William—Webster Groves, Mo.
 Fischer, John Robert—Austin, Minn.
 Forrester, Ralph Haynes—Tulsa, Okla.
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