Washington University School of Medicine bulletin, 1950

Follow this and additional works at: https://digitalcommons.wustl.edu/med_bulletins

Recommended Citation

This Article is brought to you for free and open access by the Washington University Publications at Digital Commons@Becker. It has been accepted for inclusion in Washington University School of Medicine Bulletins by an authorized administrator of Digital Commons@Becker. For more information, please contact vanam@wustl.edu.
BULLETIN OF
WASHINGTON UNIVERSITY
SAINT LOUIS MISSOURI
THE SCHOOL OF MEDICINE
MAY 15, 1950
WASHINGTON UNIVERSITY

Arthur H. Compton, Ph.D., Sc.D., LL.D., Bridge Chancellor
Charles Belknap, B.S., Vice-Chancellor
Edward K. Graham, Ph.D., Dean of Faculties
Thomas E. Blackwell, Ph.B., M.S., J.D.
Director of Business Administration

The College of Liberal Arts
Thomas S. Hall, Ph.D., Dean
The School of Engineering
Lawrence E. Stout, Ph.D., Ch.E., Dean
The School of Architecture
Joseph D. Murphy, Dean
The School of Business and Public Administration
Leslie J. Buchan, Ph.D., Dean
The George Warren Brown School of Social Work
Benjamin E. Youngdahl, A.M., Dean
The Henry Shaw School of Botany
Henry N. Andrews, Jr., Ph.D., Dean
The Graduate School of Arts and Sciences
Carl Tolman, Ph.D., Dean
The School of Law
Wayne L. Townsend, A.B., LL.B., J.S.D., Dean
The School of Medicine
Robert A. Moore, M.D., Ph.D., Dean
The School of Dentistry
Otto W. Brandhorst, D.D.S., Dean
The School of Nursing
Louise Knapp, R.N., B.S., A.M., Director
The School of Fine Arts
Kenneth E. Hudson, B.F.A., Dean
University College
Willis H. Reals, Ph.D., Dean
The Summer School
Frank L. Wright, A.M., Ed.D., Director
The Henry Edwin Sever Institute of Technology
Lawrence E. Stout, Ph.D., Ch.E., Director
### CALENDAR 1950

<table>
<thead>
<tr>
<th>JANUARY</th>
<th>FEBRUARY</th>
<th>MARCH</th>
<th>APRIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>M</td>
<td>T</td>
<td>W</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

### CALENDAR 1951

<table>
<thead>
<tr>
<th>JANUARY</th>
<th>FEBRUARY</th>
<th>MARCH</th>
<th>APRIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>M</td>
<td>T</td>
<td>W</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calendar</td>
<td>5</td>
</tr>
<tr>
<td>Board of Directors, Washington University</td>
<td>6</td>
</tr>
<tr>
<td>Administrative Officers of the University</td>
<td>7</td>
</tr>
<tr>
<td>Staff of the School of Medicine</td>
<td></td>
</tr>
<tr>
<td>Administrative Officers</td>
<td>9</td>
</tr>
<tr>
<td>Professors Emeriti</td>
<td>9</td>
</tr>
<tr>
<td>Professors</td>
<td>10</td>
</tr>
<tr>
<td>Associate Professors</td>
<td>13</td>
</tr>
<tr>
<td>Assistant Professors</td>
<td>15</td>
</tr>
<tr>
<td>Research Associates</td>
<td>21</td>
</tr>
<tr>
<td>Instructors</td>
<td>22</td>
</tr>
<tr>
<td>Assistants</td>
<td>31</td>
</tr>
<tr>
<td>Lecturers</td>
<td>42</td>
</tr>
<tr>
<td>Fellows</td>
<td>43</td>
</tr>
<tr>
<td>Officers and Committees of the Faculty</td>
<td>48</td>
</tr>
<tr>
<td>Other Officers of the School of Medicine</td>
<td>49</td>
</tr>
<tr>
<td>Officers of the Affiliated Hospitals</td>
<td></td>
</tr>
<tr>
<td>Barnes Hospital</td>
<td>50</td>
</tr>
<tr>
<td>St. Louis Maternity Hospital</td>
<td>57</td>
</tr>
<tr>
<td>McMillan Hospital and Oscar Johnson Institute</td>
<td>59</td>
</tr>
<tr>
<td>St. Louis Children's Hospital</td>
<td>63</td>
</tr>
<tr>
<td>Washington University Clinics</td>
<td>68</td>
</tr>
<tr>
<td>Social Service Department</td>
<td>68</td>
</tr>
<tr>
<td>Staff of the Affiliated Hospitals</td>
<td></td>
</tr>
<tr>
<td>Joint Medical Board</td>
<td>50</td>
</tr>
<tr>
<td>At the Medical Center</td>
<td>50</td>
</tr>
<tr>
<td>St. Louis City Hospital</td>
<td>76</td>
</tr>
<tr>
<td>Historical Statement</td>
<td>83</td>
</tr>
<tr>
<td>Medical School Buildings</td>
<td>84</td>
</tr>
<tr>
<td>Hospitals and Laboratories</td>
<td>85</td>
</tr>
<tr>
<td>Library</td>
<td>87</td>
</tr>
<tr>
<td>Lectureships</td>
<td>87</td>
</tr>
<tr>
<td>Entrance Requirements</td>
<td>87</td>
</tr>
<tr>
<td>Admission to Advanced Standing</td>
<td>89</td>
</tr>
<tr>
<td>Admission of Graduates in Medicine</td>
<td>90</td>
</tr>
<tr>
<td>Standing and Promotion</td>
<td>90</td>
</tr>
<tr>
<td>Requirements for Degrees</td>
<td>91</td>
</tr>
<tr>
<td>Intern Appointments</td>
<td>92</td>
</tr>
<tr>
<td>Prizes</td>
<td>93</td>
</tr>
<tr>
<td>Fellowships and Scholarships</td>
<td>94</td>
</tr>
<tr>
<td>Registration</td>
<td>99</td>
</tr>
<tr>
<td>Fees and Expenses</td>
<td>99</td>
</tr>
<tr>
<td>Section</td>
<td>Page</td>
</tr>
<tr>
<td>------------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Dormitory</td>
<td>100</td>
</tr>
<tr>
<td>General Plan of Instruction</td>
<td>101</td>
</tr>
<tr>
<td>Departments of Instruction</td>
<td></td>
</tr>
<tr>
<td>Conjoint Medicine</td>
<td>103</td>
</tr>
<tr>
<td>Anatomy</td>
<td>104</td>
</tr>
<tr>
<td>Bacteriology and Immunology</td>
<td>106</td>
</tr>
<tr>
<td>Biological Chemistry</td>
<td>108</td>
</tr>
<tr>
<td>Internal Medicine</td>
<td>109</td>
</tr>
<tr>
<td>Dermatology, Section on</td>
<td>117</td>
</tr>
<tr>
<td>Neuropsychiatry</td>
<td>118</td>
</tr>
<tr>
<td>Obstetrics and Gynecology</td>
<td>124</td>
</tr>
<tr>
<td>Ophthalmology</td>
<td>128</td>
</tr>
<tr>
<td>Otolaryngology</td>
<td>130</td>
</tr>
<tr>
<td>Pathology</td>
<td>132</td>
</tr>
<tr>
<td>Pediatrics</td>
<td>135</td>
</tr>
<tr>
<td>Pharmacology</td>
<td>138</td>
</tr>
<tr>
<td>Physiology</td>
<td>139</td>
</tr>
<tr>
<td>Preventive Medicine and Public Health</td>
<td>140</td>
</tr>
<tr>
<td>Radiology</td>
<td>143</td>
</tr>
<tr>
<td>Surgery</td>
<td>145</td>
</tr>
<tr>
<td>Miscellaneous Courses</td>
<td>152</td>
</tr>
<tr>
<td>Division of Postgraduate Studies</td>
<td>154</td>
</tr>
<tr>
<td>Teaching and Research Divisions</td>
<td></td>
</tr>
<tr>
<td>Institute of Neurology</td>
<td>156</td>
</tr>
<tr>
<td>Division of Gerontology</td>
<td>156</td>
</tr>
<tr>
<td>Division of Tumor Services</td>
<td>157</td>
</tr>
<tr>
<td>Division of Physical Medicine</td>
<td>157</td>
</tr>
<tr>
<td>Division of Psychosomatic Medicine</td>
<td>158</td>
</tr>
<tr>
<td>Ida Jorgenson Finkelnburg and Emma Jorgenson Wernse Laboratory of</td>
<td>158</td>
</tr>
<tr>
<td>Cancer Research</td>
<td></td>
</tr>
<tr>
<td>Child Guidance Clinic</td>
<td>158</td>
</tr>
<tr>
<td>Associated Institutions</td>
<td></td>
</tr>
<tr>
<td>Central Institute for Deaf</td>
<td>159</td>
</tr>
<tr>
<td>Jefferson Barracks Veterans Hospital</td>
<td>159</td>
</tr>
<tr>
<td>Division of Auxiliary Medical Services</td>
<td></td>
</tr>
<tr>
<td>Hospital Administration</td>
<td>161</td>
</tr>
<tr>
<td>Occupational Therapy</td>
<td>161</td>
</tr>
<tr>
<td>Orthoptic Technology</td>
<td>162</td>
</tr>
<tr>
<td>Physical Therapy</td>
<td>162</td>
</tr>
<tr>
<td>Medical Technology</td>
<td>163</td>
</tr>
<tr>
<td>Dietetics</td>
<td>163</td>
</tr>
<tr>
<td>Anesthesia</td>
<td>163</td>
</tr>
<tr>
<td>Degrees Conferred at Commencement</td>
<td>164</td>
</tr>
<tr>
<td>Prizes Awarded at Commencement</td>
<td>167</td>
</tr>
<tr>
<td>Students Enrolled in School of Medicine</td>
<td>174</td>
</tr>
</tbody>
</table>
CALENDAR

1949-50

Registration for second half year, Monday, January 30, 1950.
Holidays, Good Friday, April 7, and Saturday, April 8, 1950.
Commencement, Tuesday, June 6, 1950.

1950-51

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

President
HARRY BROOKINGS WALLACE

First Vice-President
DANIEL KAYSER CATLIN

Second Vice-President
ETHAN ALLEN HITCHCOCK SHEPLEY

Directors
WILLIAM MARKHAM AKIN
DANIEL KAYSER CATLIN
WILLIAM HENRY DANFORTH
ADRIAN WOODS FRAZIER
CLIFFORD WILLARD GAYLORD
WILSON LINN HEMINGWAY
ROLAND MILTON HOERR
JOHN STARK LEHMANN
JAMES WESLEY MCAFEE
BEN MOREELL
EUGENE DUTTON NIMS
JOHN MERRILL OLIN
ALEXANDER WESSEL SHAPLEIGH
ETHAN ALLEN HITCHCOCK SHEPLEY
ERNEST WILLIAM STIX
HARRY BROOKINGS WALLACE
HOWARD ISAAC YOUNG

Alumni Directors
WALTER OTTO BODE
Arts and Sciences
FREDERICK ENO WOODRUFF
Medicine
BENJAMIN SHERMAN LANDAU
Law
JOHN STEVENSON VOYLES
Dentistry

Treasurer and Secretary of the Corporation
THOMAS EDWARD BLACKWELL

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

THE CENTRAL ADMINISTRATION

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

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

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

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

GENERAL ADMINISTRATION

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

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

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

Executive Secretary of the Alumni Office:
Fredric George Kettelkamp, A.B.
Office, 219 Brookings Hall

Director of the Placement Bureau:
Priscilla Alden Settle
Office, 100 Ridgley Library

EDUCATIONAL ADMINISTRATION

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

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

BUSINESS ADMINISTRATION

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

Comptroller:
John Henry Ernest, M.S.B.A.
Office, 118 Brookings Hall
Director of Purchasing:
James Johnstone Ritterskamp, Jr., B.S.B.A., LL.B.
Office, 123 Brookings Hall

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

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

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

Robert Allan Moore .................. Dean
B.A., Ohio State University, 1921; M.S., 1927; M.D., 1928; Ph.D., Western Reserve University, 1930.

Samuel Bukantz .................. Assistant Dean
B.S., New York University, 1930; M.D., 1934.

Thomas Harrison Hunter .................. Assistant Dean in Charge of Students
A.B., Harvard University, 1935; B.A., Cambridge University (England), 1937; M.D., Harvard University, 1940.

Robert Irving Watson .................. Assistant Dean
A.B., Dana College, 1933; A.M., Columbia University, 1935; Ph.D., 1938.

William Bahlmann Parker .................. Registrar
A.B., University of Missouri, 1921.

EMERITI

Vilray Papin Blair .................. Professor Emeritus of Clinical Surgery
A.M., Christian Brothers College, 1890; M.D., Washington University, 1893.

Harry Sturgeon Crossen .................. Professor Emeritus of Clinical Obstetrics and Gynecology
M.D., Washington University, 1892.

Martin Feeney Engman .................. Professor Emeritus of Clinical Dermatology
M.D., University of New York, 1891.

Joseph Erlanger .................. Professor Emeritus of Physiology
B.S., University of California, 1895; M.D., Johns Hopkins University, 1899; L.L.D., University of California, 1932; Sc.D., University of Pennsylvania, 1936; Sc.D., University of Wisconsin, 1936; Sc.D., University of Michigan, 1937; Sc.D., Washington University, 1946; L.L.D., Johns Hopkins University, 1947; Dr. (Hon.) Free University of Brussels, 1949.

Leo Loeb .................. Professor Emeritus of Pathology
M.D., University of Zurich, 1896.

Harry Webster Lyman .................. Professor Emeritus of Clinical Otolaryngology
M.D., St. Louis College of Physicians and Surgeons, 1895.

Sherwood Moore .................. Professor Emeritus of Radiology
M.D., Washington University, 1905.

Grandison Delaney Royston .................. Professor Emeritus of Clinical Obstetrics and Gynecology
M.D., Washington University, 1907.

1 Appointments as of July 1, 1950.
Ernest Sachs............Professor Emeritus of Clinical Neurological Surgery
A.B., Harvard University, 1900; M.D., Johns Hopkins University, 1904.

Major Gabriel Seelig...............Professor Emeritus of Clinical Surgery
A.B., Harvard University, 1896; M.D., Columbia University, 1900.

William Ewing Shahah..............Professor Emeritus of Clinical Ophthalmology
A.B., Washington University, 1901; M.D., 1904; A.M., 1912.

Robert James Terry........................Professor Emeritus of Anatomy
M.D., Missouri Medical College, 1895; A.B., Washington University, 1901.

Meyer Wiener............................Professor Emeritus of Clinical Ophthalmology
M.D., Missouri Medical College, 1896.

Adrien Bleyer..............Associate Professor Emeritus of Clinical Pediatrics
M.D., Missouri Medical College, 1899.

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

Walter Fischel...............Associate Professor Emeritus of Clinical Medicine
A.B., Harvard University, 1902; M.D., Washington University, 1905.

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

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

Llewellyn Sale.........Associate Professor Emeritus of Clinical Medicine
M.D., Washington University, 1907.

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

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

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

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

PROFESSORS

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

Willard Myron Allen...............Professor of Obstetrics and Gynecology and Head of the Department
B.S., Hobart College, 1926; M.A., University of Rochester, 1929; M.D., 1932; Sc.D., Hobart College, 1940.
George Holman Bishop..........................Professor of Neurophysiology A.B., University of Michigan, 1912; Ph.D., University of Wisconsin, 1920.

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

Jacques Jacob Bronfenbrenner.................Professor of Bacteriology and Immunology and Head of the Department Ph.D., Columbia University, 1912; Dr.P.H., Harvard University, 1919.

James Barrett Brown............................Professor of Clinical Surgery M.D., Washington University, 1923.

T. K. Brown............................Professor of Clinical Obstetrics and Gynecology B.S., University of Wisconsin, 1921; M.S., 1922; M.D., Washington University, 1924.

Jean Valjean Cooke.............................Professor of Pediatrics A.B., West Virginia University, 1908; A.B., Yale University, 1904; M.D., Johns Hopkins University, 1908.

Carl F. Cori..................................Professor of Biological Chemistry and Head of the Department M.D., University of Prague, 1920; Sc.D., Yale University, 1946; Sc.D., Western Reserve University, 1946; Sc.D., Boston University, 1948; Sc.D., Cambridge University (England), 1949.

Gerty T. Cori.................................Professor of Biological Chemistry M.D., University of Prague, 1920; Sc.D., Boston University, 1948; Sc.D., Smith College, 1949.

Edmund Vincent Cowdry........................Research Professor of Anatomy B.A., University of Toronto, 1909; Ph.D., University of Chicago, 1912.

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

Edward Wheeler Dempsey........................Professor of Anatomy and Head of the Department A.B., Marietta College, 1932; Sc.M., Brown University, 1934; Ph.D., 1937; M.A. (hon.), Harvard University, 1946.

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

Edwin Francis Gildea..........................Wallace Renard Professor of Psychiatry and Head of the Department of Neuropsychiatry A.B., Colorado College, 1929; M.D., Harvard University, 1924.

Evarts Ambrose Graham.........................Bixby Professor of Surgery and Head of the Department A.B., Princeton University, 1904; M.D., Rush Medical College, 1907; M.S. (hon.), Yale University, 1928; LL.D., Central College, 1926; Sc.D., University of Cincinnati, 1927; Sc.D., Princeton University, 1929; Sc.D., Western Reserve University, 1931; Sc.D., University of Pennsylvania, 1940; Sc.D., University of Chicago, 1941; F.R.C.S. (hon.), 1943; Sc.D., McGill University, 1944.
Alexis Frank Hartmann..........................Professor of Pediatrics and Head of the Department
B.S., Washington University, 1919; M.S., 1921; M.D., 1921.

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

Arthur Llewelyn Hughes..........................Consulting Physicist
B.Sc., Liverpool University, 1906; M.Sc., 1907; B.A., Cambridge University, 1910; D.Sc., 1912.

John Albert Key.................................Professor of Clinical Orthopedic Surgery
M.D., Johns Hopkins University, 1918.

Virgil Loeb........................................Lecturer in Stomatology
A.B., University of Missouri, 1903; M.D., St. Louis University, 1906; D.D.S., 1906.

Oliver Howe Lowry..............................Professor of Pharmacology and Head of the Department
B.S., Northwestern University, 1932; Ph.D., University of Chicago, 1937; M.D., Rush Medical College, 1937.

Carl Vernon Moore..............................Professor of Medicine
A.B., Washington University, 1928; M.D., 1932.

Robert Allan Moore............................Edward Mallinckrodt Professor of Pathology and Head of the Department
B.A., Ohio State University, 1921; M.S., 1927; M.D., 1928; Ph.D., Western Reserve University, 1930.

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

Lawrence Tyler Post............................Professor of Clinical Ophthalmology and Head of the Department
A.B., Yale University, 1909; M.D., Johns Hopkins University, 1913.

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

Arthur Walter Proetz............................Professor of Clinical Otolaryngology
A.B., Washington University, 1910; M.D., 1912.

Dalton Keats Rose...............................Professor of Clinical Genitourinary Surgery
M.D., Washington University, 1915.

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

Otto Henry Schwarz.............................Professor of Obstetrics and Gynecology
M.D., Washington University, 1913.

Philip Anderson Shaffer........................Distinguished Service Professor of Biological Chemistry
A.B., West Virginia University, 1900; Ph.D., Harvard University, 1904; Sc.D., University of Rochester, 1939.

Robert Ely Shank..............................Professor of Preventive Medicine, Professor of Preventive Medicine in Medicine, and Head of the Department of Preventive Medicine and Public Health
A.B., Westminster College, 1935; M.D., Washington University, 1939.
Sol Richard Silverman..............................Professor of Audiology
A.B., Cornell University, 1933; M.S., Washington University, 1938; Ph.D., 1942.
Mildred Trotter..................Professor of Gross Anatomy and Consultant in
Anatomy to the Department of Radiology
A.B., Mount Holyoke College, 1920; M.S., Washington University, 1921; Ph.D.,
1924.
Borden Smith Veeder..............................Professor of Clinical Pediatrics
M.D., University of Pennsylvania, 1907.
Theodore Edwin Walsh..............Professor of Otolaryngology and Head of
the Department
Richard Simon Weiss..............Professor of Clinical Dermatology and
Head of the Section of Dermatology
M.D., Washington University, 1909.
Harvey Lester White..............................Professor of Physiology and
Head of the Department
B.S., Washington University, 1918; M.D., 1920.
Hugh Monroe Wilson.........................Professor of Radiology and
Head of the Department
B.A., Illinois College, 1924; M.D., Washington University, 1927; M.A. (hon.),
Yale University, 1945.
William Barry Wood, Jr..........Busch Professor of Medicine and Head
of the Department
A.B., Harvard University, 1932; M.D., Johns Hopkins University, 1936.

ASSOCIATE PROFESSORS

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

Justin Joseph Cordonnier. Associate Professor of Clinical Genitourinary Surgery
B.S., Washington University, 1926; M.D., 1928.

James Bray Costen. Associate Professor of Clinical Otolaryngology
A.B., University of Arkansas, 1916; M.D., Washington University, 1922.

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

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

Gilbert Burnett Forbes. Associate Professor of Pediatrics
A.B., University of Rochester, 1936; M.D., 1940.

Leonard Thompson Furlow. Associate Professor of Clinical Neurological Surgery
B.S., Emory University, 1923; M.D., 1925.

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

Alfred Goldman. Associate Professor of Clinical Medicine

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

French Keller Hansel. Associate Professor of Clinical Otolaryngology
M.D., St. Louis University, 1918; M.S., University of Minnesota, 1923.

Carl Gayler Harford. Associate Professor of Medicine
A.B., Amherst College, 1928; M.D., Washington University, 1933.

Jules Henry. Associate Professor of Anthropology in the Department of Neuropsychiatry
B.S., College of the City of New York, 1928; Ph.D., Columbia University, 1935.

John E. Hobbs. Associate Professor of Clinical Obstetrics and Gynecology
A.B., Southwest Missouri State Teachers’ College, 1923; M.D., Washington University, 1927.

Martin Kamen. Associate Professor of Radiochemistry
B.S., University of Chicago, 1930; Ph.D., 1936.

Isaac Dee Kelley, Jr. Associate Professor of Clinical Otolaryngology
B.S., St. Louis University, 1903; M.D., 1908.

John Esben Kirk. Associate Professor of Medicine and Director of Research in the Division of Gerontology
M.A.M.S., University of Copenhagen, 1923; M.Philos., 1924; M.D., 1936.
William Edward Koch, Jr.  
Associate Professor of Clinical Radiodontics
D.D.S., Washington University, 1934.

Maurice Edward Krahl  
Associate Professor of Biological Chemistry
A.B., De Pauw University, 1929; Ph.D., Johns Hopkins University, 1932.

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

Joseph William Larimore  
Associate Professor of Clinical Medicine
A.B., De Pauw University, 1908; M.D., Washington University, 1913.

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

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

Edward Humphrey Reinhard  
Associate Professor of Medicine and of Radiology
A.B., Washington University, 1935; M.D., 1939.

Saul Rosenzweig  
Associate Professor of Medical Psychology
A.B., Harvard University, 1929; M.A., 1930; Ph.D., 1932.

George Saslow  
Associate Professor of Psychiatry
B.S., New York University, 1926; Ph.D., 1931; M.D., Harvard University, 1940.

Henry Alfred Schroeder  
Associate Professor of Medicine
A.B., Yale University, 1929; M.D., Columbia University, 1933.

Frederick Oscar Schwartz  
Associate Professor of Clinical Ophthalmology
M.D., Washington University, 1910.

Wendell Garrison Scott  
Associate Professor of Clinical Radiology
A.B., University of Colorado, 1928; M.D., Washington University, 1932.

John Russell Smith  
Associate Professor of Medicine
A.B., University of Wisconsin, 1931; A.M., 1932; M.D., Washington University, 1934.

Margaret Gladys Smith  
Associate Professor of Pathology
A.B., Mount Holyoke College, 1918; M.D., Johns Hopkins University, 1922.

Robert Irving Watson  
Associate Professor of Medical Psychology
A.B., Dana College, 1933; A.M., Columbia University, 1935; Ph.D., 1938.

ASSISTANT PROFESSORS

Samuel J. Ajl  
Assistant Professor of Bacteriology and Immunology
B.A., Brooklyn College, 1945; Ph.D., Iowa State College, 1949.

Duff Shedric Allen  
Assistant Professor of Clinical Surgery
M.D., Washington University, 1919.

Millard Fillmore Arbuckle  
Assistant Professor of Clinical Otolaryngology
M.D., Washington University, 1909.
Robert Wilson Bartlett..............Assistant Professor of Clinical Surgery
B.S., University of Michigan, 1926; M.D., 1930.

Carl Conrad Beisbarth.............Assistant Professor of Clinical Ophthalmology
B.S., St. Louis University, 1924; M.D., 1926.

Ethel Ronzoni Bishop..............Assistant Professor of Biological Chemistry
in Neuropsychiatry
B.S., Mills College, 1913; A.M., Columbia University, 1914; Ph.D., University of Wisconsin, 1922.

Leon Bromberg......................Assistant Professor of Clinical Medicine
A.B., Rice Institute, 1920; M.D., Vanderbilt University, 1924.

Arthur Charles Brooks............Assistant Professor of Clinical Medicine
B.S., Washington University, 1917; M.D., 1919.

Samuel Bukantz.....................Assistant Professor of Medicine
B.S., New York University, 1930; M.D., 1934.

Harold Atten Bulger...............Assistant Professor of Clinical Medicine
B.S., Ohio State University, 1916; M.D., Harvard University, 1920.

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

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

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

Adolph Henry Conrad..............Assistant Professor of Clinical Dermatology
M.D., St. Louis University, 1906.

Jerome Epstein Cook...............Assistant Professor of Clinical Medicine
M.D., Washington University, 1905.

Zola K. Cooper.....................Assistant Professor of Pathology
A.B., Washington University, 1925; M.S., 1926; Ph.D., 1929.

Clarence Harrison Crego, Jr.......Assistant Professor of Clinical Orthopedic Surgery
B.S., Union University, 1921; M.D., University of Michigan, 1923.

Robert James Crossen..............Assistant Professor of Clinical Obstetrics and Gynecology
A.B., Oberlin College, 1921; M.D., Washington University, 1925.

Rogers Deakin......................Assistant Professor of Clinical Genitourinary Surgery
M.D., Washington University, 1922.

Frank J. Dixon, Jr...............Assistant Professor of Pathology
B.S., University of Minnesota, 1941; M.B., 1943; M.D., 1944.

Herbert R. Domke...............Assistant Professor of Public Health
B.S., University of Chicago, 1939; M.D., 1942; M.P.H., Harvard University, 1948.

Charles William Duden...............Assistant Professor of Clinical Medicine
M.D., Washington University, 1926.
Charles Leonard Eckert
Assistant Professor of Clinical Surgery
M.D., Washington University, 1939.

Charles Hermann Eyermann
Assistant Professor of Clinical Medicine
M.D., St. Louis University, 1911.

Hyman Herschel Fingert
Assistant Professor of Clinical Psychiatry
B.A., State University of Iowa, 1931; M.D., 1934.

Arthur Oscar Fisher
Assistant Professor of Clinical Surgery
A.B., University of Wisconsin, 1905; M.D., Johns Hopkins University, 1909.

Robert F. Furchgott
Assistant Professor of Pharmacology
B.S., University of North Carolina, 1937; Ph.D., Northwestern University, 1940.

Margaret Crane-Lillie Gildea
Assistant Professor of Clinical Psychiatry
B.S., University of Chicago, 1923; M.D., Yale University, 1936.

Joseph Gitt
Assistant Professor of Clinical Neurology
M.D., Washington University, 1930.

Robert Joy Glaser
Assistant Professor of Medicine
S.B., Harvard University, 1940; M.D., 1943.

Harry Naylor Glick
Assistant Professor of Clinical Otolaryngology
A.B., Cornell University, 1916; M.D., St. Louis University, 1922.

David Goldring
Assistant Professor of Pediatrics
A.B., Washington University, 1936; M.D., 1940.

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

Samuel Becker Grant
Assistant Professor of Clinical Medicine
B.S., Washington University, 1918; M.D., 1920.

Paul Oonk Hagemann
Assistant Professor of Clinical Medicine
A.B., Washington University, 1930; M.D., 1934.

Howard Rommel Hildreth
Assistant Professor of Clinical Ophthalmology
M.D., Washington University, 1928.

Francis Edmund Hunter
Assistant Professor of Pharmacology
B.S., Mount Union College, 1938; Ph.D., University of Rochester, 1941.

Thomas Harrison Hunter
Assistant Professor of Medicine
A.B., Harvard University, 1935; B.A., Cambridge University (England), 1937; M.D., Harvard University, 1940.

William Mahlon James
Assistant Professor of Clinical Ophthalmology
B.S., Drury College, 1923; M.D., Washington University, 1926.

Joseph Cabell Jaudon
Assistant Professor of Clinical Pediatrics
A.B., Washington University, 1926; M.D., 1933.

Andrew Blucher Jones
Assistant Professor of Clinical Neurology
M.D., Vanderbilt University, 1916.

Frederick Augustus Jostes
Assistant Professor of Clinical Orthopedic Surgery
B.S., Washington University, 1918; M.D., 1920.
Bruce Delozier Kenamore, Assistant Professor of Clinical Medicine
A.B., Washington University, 1933; M.D., 1935.

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

William Bryan Kountz, Assistant Professor of Clinical Medicine
M.D., Washington University, 1926.

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

Clinton Welsh Lane, Assistant Professor of Clinical Dermatology
A.B., St. Mary's College (Kansas), 1916; M.D., St. Louis University, 1921.

Adolph Charles Lange, Assistant Professor of Clinical Ophthalmology
B.S., Washington University, 1928; M.D., 1930.

John Vincent Lawrence, Assistant Professor of Clinical Medicine
B.S., University of Chicago, 1917; M.D., Rush Medical College, 1924.

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

Ruth Elizabeth Martin, Dentist to the Department of Pediatrics
D.D.S., Washington University, 1923.

Edward Massie, Assistant Professor of Clinical Medicine
A.B., Washington University, 1931; M.D., 1935.

William H. Masters, Assistant Professor of Obstetrics and Gynecology
B.S., Hamilton College, 1938; M.D., University of Rochester, 1943.

Sydney Brown Maughs, Assistant Professor of Clinical Psychiatry
A.B., Westminster College, 1931; M.D., Washington University, 1935.

H. Relton McCarroll, Assistant Professor of Clinical Orthopedic Surgery
A.B., Ouachita College, 1927; M.D., Washington University, 1931.

Frank McDowell, Assistant Professor of Clinical Surgery
A.B., Drury College, 1932; M.D., Washington University, 1936.

Frank Powell Mcnalley, Assistant Professor of Clinical Obstetrics and Gynecology
B.S., Washington University, 1915; M.D., 1917.

Sedgwick Mead, Assistant Professor of Physical Medicine and Assistant Professor of Physical Medicine in Medicine
B.S., Harvard University, 1934; M.D., 1938.

Albert I. Mendeloff, Assistant Professor of Preventive Medicine and of Medicine, and Physician to Students of the Medical Center
B.S., Princeton University, 1938; M.D., Harvard University, 1942; M.P.H., 1944.

Ivan Norman Mensh, Assistant Professor of Medical Psychology
A.B., George Washington University, 1940; A.M., 1942; Ph.D., Northwestern University, 1948.
Hans Barso Molholm..................*Assistant Professor of Clinical Psychiatry*
A.B., Harvard University, 1926; M.D., 1931.

Morris Moore..........................*Assistant Professor of Mycology*
B.S., Boston University, 1928; A.M., Harvard University, 1929; Ph.D., Washington University, 1933.

Richard T. Odell.....................*Assistant Professor of Orthopedic Surgery*
A.B., Westminster College, 1935; B.S. in Med., University of Missouri, 1941; M.D., Washington University, 1943.

Charles Darrell O'Keefe.............*Assistant Professor of Clinical Obstetrics and Gynecology*
A.B., University of Missouri, 1916; M.D., Washington University, 1918.

Richard Paddock......................*Assistant Professor of Clinical Obstetrics and Gynecology*
M.D., Washington University, 1921.

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

John Franklin Patton.................*Assistant Professor of Clinical Gynecology*
M.D., Washington University, 1928.

Vernon I. Pettit....................*Assistant Professor of Military Science and Tactics and U. S. Army Fellow in Pathology*
B.S., Southwestern College, 1935; M.D., University of Tennessee, 1939.

Paul William Preisler..............*Assistant Professor of Biological Chemistry*
B.S., Washington University, 1923; M.S., 1925; Ph.D., 1927.

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

Fred C. Reynolds....................*Assistant Professor of Clinical Orthopedic Surgery*
A.B., Washington University, 1930; M.D., 1934.

Melvin Andrew Roblee.................*Assistant Professor of Clinical Obstetrics and Gynecology*
B.S., Washington University, 1923; M.D., 1925.

Erna L. Rozmarynowski..............*Assistant Professor of Occupational Therapy and Elias Michael Director of the Department of Occupational Therapy*
B.S., Milwaukee-Downer College, 1948.

Theodore Eugene Sanders.............*Assistant Professor of Clinical Ophthalmology*
B.S., University of Nebraska, 1931; M.D., 1933.

Val Beyer Satterfield..............*Assistant Professor of Clinical Psychiatry*
B.S., Washington University, 1922; M.D., 1924.

John Albion Saxton..................*Assistant Professor of Pathology*
A.B., Yale University, 1929; M.D., Washington University, 1934.
I. L. Schechmeister Assistant Professor of Bacteriology and Immunology
A.B., University of California, 1934; M.A., 1935; Ph.D., 1949.

Harold Scheff Assistant Professor of Clinical Medicine
M.D., University of Toronto, 1931.

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

Richard Gordon Scobee Assistant Professor of Ophthalmology
A.B., Rice Institute, 1935; M.D., University of Texas, 1939.

Virgil Cole Scott Assistant Professor of Preventive Medicine and of Medicine
B.S., Hobart College, 1932; M.D., University of Rochester, 1937.

Ben Harlan Senturia Assistant Professor of Clinical Otolaryngology
M.D., Washington University, 1931; M.D., 1935.

Martin Silberberg Assistant Professor of Pathology
M.D., University of Breslau, 1920.

Ruth M. Silberberg Assistant Professor of Pathology
M.D., University of Breslau, 1931.

William Warner Sleator, Jr. Assistant Professor of Biophysics in Physiology
A.B., University of Michigan, 1938; M.S., 1939; Ph.D., 1946.

Edward B. Smith Assistant Professor of Pathology
B.S., Indiana University, 1936; M.D., 1938.

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

Samuel David Soule Assistant Professor of Clinical Obstetrics
M.D., Washington University, 1928.

Arthur Edgar Strauss Assistant Professor of Clinical Medicine
S.B., Harvard University, 1912; M.D., 1917.

Earl Sutherland Assistant Professor of Biological Chemistry
B.S., Washburn College, 1937; M.D., Washington University, 1942.

Barrett Learned Taussig Assistant Professor of Clinical Medicine
A.B., Harvard University, 1928; M.D., Washington University, 1932.

John Fuller Taylor Assistant Professor of Biological Chemistry
A.B., Cornell University, 1933; Ph.D., Johns Hopkins University, 1937.

Lawrence Dorland Thompson Assistant Professor of Clinical Medicine
B.S., Rutgers College, 1917; M.D., Cornell University, 1922.

Donald Lionell Thurston Assistant Professor of Pediatrics
B.S., Vanderbilt University, 1934; M.D., 1937.

Hiromu Tsuchiya Assistant Professor of Parasitology
A.B., University of Missouri, 1913; Sc.D., Johns Hopkins University, 1930.

1 Effective September 1, 1950.
George Andrew Ulett..........................Assistant Professor of Psychiatry
Ph.D., University of Oregon, 1944; M.D., 1944.

Philip Leonard Varney..........................Assistant Professor of Bacteriology and Immunology
B.S., Oregon Agricultural College, 1923; M.S., Washington University, 1926; Ph.D., 1933.

Sidney Frederick Velick..........................Assistant Professor of Biological Chemistry
B.S., Wayne University, 1934; M.S., University of Michigan, 1936; Ph.D., 1938.

Franklin Edward Walton..........................Assistant Professor of Clinical Surgery
B.S., Shurtleff College, 1923; M.D., Washington University, 1927.

Samuel Russell Warson..........................Assistant Professor of Psychiatry and Director of the Child Guidance Clinic
A.B., McGill University, 1930; M.D., 1934.

Carl Reinhard Wegner..........................Assistant Professor of Clinical Obstetrics and Gynecology
A.B., North Central College, 1922; M.D., University of Nebraska, 1926.

Park Jerauld White..........................Assistant Professor of Clinical Pediatrics
A.B., Harvard University, 1913; M.D., Columbia University, 1917.

Ray David Williams..........................Assistant Professor of Clinical Medicine
A.B., Hampton-Sydney College, 1930; M.S., Emory University, 1931; M.D., Washington University, 1937.

Keith Singleton Wilson..........................Assistant Professor of Clinical Medicine
A.B., Williams College, 1930; M.D., Washington University, 1934.

Paul John Zentay..........................Assistant Professor of Clinical Pediatrics and Instructor in Clinical Neurology
M.D., University of Kolozsvár, 1914.

Oscar Charles Zink..........................Assistant Professor of Clinical Radiology
M.D., Washington University, 1921.

RESEARCH ASSOCIATES

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

Dean Fletcher Davies..........................Research Associate in Medicine
A.B., College of Wooster, 1939; Ph.D., Western Reserve University, 1943; M.D., 1945.

Anna Reubenia Dubach..........................Research Associate in Medicine
A.B., Bryn Mawr College, 1919; M.S., University of Colorado, 1935; Ph.D., 1938.

Laurence G. Gumbreck..........................Research Associate in Surgery
B.A., University of Wisconsin, 1927; M.A., 1929; Ph.D., 1945.

Virginia Minnich..........................Research Associate in Medicine
B.S., Ohio State University, 1937; M.S., Iowa State College, 1938.

Mildred Cohn Primakoff..........................Research Associate in Biological Chemistry
B.A., Hunter College, 1931; Ph.D., Columbia University, 1937.

1 On leave of absence, effective September 1, 1950.
Eugene Roberts. Research Associate in Cancer
B.S., Wayne University, 1940; M.S., University of Michigan, 1941; Ph.D., 1943.

Theodore Rosenthal. Research Associate in Cancer and in Physiology
B.S., Yale University, 1935; Ph.D., 1941.

Mary Ruth Smith. Research Associate in Medicine
B.A., Mississippi State College for Women, 1934; M.S., Johns Hopkins School of Hygiene and Public Health, 1940.

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

Theodore Edwin Weichselbaum. Research Associate in Surgery
B.S., Emory University, 1930; Ph.D., University of Edinburg (Scotland), 1936.

INSTRUCTORS

Harry Agress. Instructor in Clinical Medicine
B.S., Washington University, 1932; M.D., 1932.

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

Hubert Lee Allen. Instructor in Clinical Obstetrics and Gynecology
A.B., University of Kansas, 1932; M.D., Tulane University, 1936.

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

August C. Arminini, Jr. Instructor in Pathology
A.B., San Jose State College, 1942; M.D., Stanford University, 1945.

Franz Joseph Arzt. Instructor in Clinical Obstetrics and Gynecology
M.D., Washington University, 1926.

James William Bagby. Instructor in Clinical Dermatology
A.B., University of Missouri, 1930; B.S., 1931; M.D., Washington University, 1933.

Joseph Aloysius Bauer. Instructor in Clinical Pediatrics
M.D., Washington University, 1926.

Walter Baumgarten, Jr. Instructor in Clinical Medicine
A.B., Washington University, 1935; M.D., 1939.

Alfred Karl Baur. Instructor in Clinical Psychiatry
A.B., Washington University, 1935; M.D., 1939.

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

William George Becke. Instructor in Clinical Medicine
M.D., Washington University, 1923.

Robert Malseed Bell. Instructor in Clinical Psychiatry
M.D., St. Louis University, 1928.

Bernard Aran Bercu. Instructor in Medicine
M.D., Washington University, 1944.
The School of Medicine

Grace Elizabeth Bergner. Instructor in Clinical Medicine
A.B., Washington University, 1939; M.D., 1943.

Daniel Bisno. Instructor in Clinical Ophthalmology
B.A., University of Wisconsin, 1927; M.D., Johns Hopkins University, 1931.

Julian Blache. Instructor in Pathology
M.D., Howard University, 1932.

Loren Francis Blaney. Instructor in Clinical Medicine
A.B., Washington University, 1934; M.D., 1938.

Arthur Robert Bortnick. Instructor in Clinical Obstetrics and Gynecology
M.D., Washington University, 1935.

Donald Stewart Bottom. Instructor in Clinical Radiology
A.B., Washington University, 1932; M.D., 1940.

Mary Helen Brazell. Instructor in Social and Environmental Studies
A.B., University of Oklahoma, 1929.

Henry Spence Brookes, Jr. Instructor in Clinical Surgery
M.D., Washington University, 1917.

David H. Brown. Instructor in Biological Chemistry
B.S., California Institute of Technology, 1942; Ph.D., 1948.

Wilson Gordon Brown. Instructor in Pathology
A.B., William Jewell College, 1935; M.D., Washington University, 1939.

James Howard Bryan. Instructor in Clinical Ophthalmology
A.B., Washington University, 1932; M.D., 1936.

William Thomas Kimlin Bryan. Instructor in Clinical Otolaryngology
A.B., Washington University, 1929; M.D., 1933.

Alfred D. Buchmueller. Instructor in Psychiatric Social Service
A.B., Elmhurst College, 1931.

Marvin Burstone. Instructor in Pathology

Anthony Karl Busch. Instructor in Clinical Psychiatry
M.D., St. Louis University, 1937.

Francis John Canepa. Instructor in Clinical Obstetrics and Gynecology
M.D., Washington University, 1922.

Edward Wyatt Cannady. Instructor in Clinical Medicine
A.B., Washington University, 1927; M.D., 1931.

Margaret Ann Carter. Instructor in Pathology
A.B., Washington University, 1934; M.D., 1938.

Dorothy Mildred Case. Instructor in Pediatrics and in Child Psychiatry
and Assistant Director of the Child Guidance Clinic
M.D., Washington University, 1943.

1 In residence at Los Alamos, New Mexico.
2 Effective October 1, 1950.
Benjamin Hynes Charles.................Instructor in Clinical Medicine
M.B., Ch.B., University of Edinburgh, 1934.

William Goodwin Coleman.............Instructor in Clinical Dermatology
B.S., Washington University, 1917; M.D., 1919.

Adolph Henry Conrad, Jr..............Instructor in Clinical Dermatology
A.B., Washington University, 1934; M.D., 1938.

Cyril Joseph Costello...............Instructor in Clinical Surgery
B.S., University of Texas, 1930; M.D., 1939.

Robert Cowgill......................Instructor in Biological Chemistry
B.A., University of Kansas, 1941; M.S., Rensselaer Polytechnic Institute, 1942; Ph.D., Johns Hopkins University, 1950.

Robert D. Crane......................Instructor in Biological Chemistry
Ph.D., Harvard University, 1950.

Jay Crawford.........................Instructor in Ophthalmology
A.B., Millington Academy, 1902; B.S., Spring Garden Institute, 1905; M.D., Temple Medical College, 1906.

Harold Cutler...............Instructor in Clinical Otolaryngology
M.D., Tufts College, 1937.

William Daughaday.................Instructor in Medicine
A.B., Harvard University, 1940; M.D., 1943.

Myron Woodward Davis............Instructor in Clinical Obstetrics and Gynecology
M.D., Washington University, 1925.

Anthony Bigelow Day.................Instructor in Clinical Medicine
B.S., Harvard University, 1913; M.D., Washington University, 1919.

Lee Wallace Dean, Jr..............Instructor in Clinical Otolaryngology
B.S., Yale University, 1930; M.D., Washington University, 1933.

Max Deutch........................Instructor in Clinical Pediatrics
M.D., Washington University, 1926.

Truman Guthred Drake, Jr.........Instructor in Clinical Medicine
A.B., Washington University, 1929; M.D., 1933.

Joseph Castro Edwards............Instructor in Clinical Medicine
A.B., University of Oklahoma, 1930; M.D., Harvard University, 1934.

Ben Eiseman......................Instructor in Surgery
A.B., Yale University, 1939; M.D., Harvard University, 1943.

Gladden V. Elliott.................Instructor in Radiology
A.B., Central College, 1943; M.D., Washington University, 1946.

Robert William Elliott............Instructor in Clinical Medicine
A.B., Washington University, 1932; M.D., 1936.

Julius Elson......................Instructor in Clinical Medicine
M.D., Washington University, 1928.

Felice Emery.....................Instructor in Clinical Psychiatry
A.B., Bryn Mawr College, 1924; M.D., Columbia University, 1927.
Martin Feeney Engman, Jr.  Instructor in Clinical Dermatology
M.D., Washington University, 1928.

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

Arthur Thomas John Esslinger  Instructor in Clinical Obstetrics and Gynecology
M.D., Washington University, 1940.

Wesley Street Fee  Instructor in Radiology
A.B., University of Arizona, 1941; M.D., Washington University, 1944.

Israel Jerome Flanse  Instructor in Clinical Medicine
A.B., Washington University, 1931; M.D., 1935.

Dorothy L. Flint  Instructor in Occupational Therapy

Ada Wells Ford  Instructor in Occupational Therapy

Lee T. Ford, Jr.  Instructor in Clinical Orthopedic Surgery
M.D., University of Tennessee, 1940.

Ruth Schreiber Freedman  Instructor in Clinical Ophthalmology
A.B., Washington University, 1938; M.D., 1942.

David Merrill Freeman  Instructor in Ophthalmology
A.B., University of Missouri, 1940; B.S., in Medicine, 1941; M.D., Washington University, 1943.

John Ball Frerichs  Instructor in Pathology
A.B., Washington University, 1936; M.D., Johns Hopkins University, 1941.

Morris Friedkin  Instructor in Pharmacology
B.A., Iowa State College, 1940; B.S., 1941; Ph.D., University of Chicago, 1948.

Bernard Friedman  Instructor in Clinical Medicine
A.B., University of Wisconsin, 1932; M.D., 1934.

Minot Packer Fryer  Instructor in Clinical Surgery
A.B., Brown University, 1936; M.D., Johns Hopkins University, 1940.

George Alvin Gaikins  Instructor in Clinical Surgery
A.B., Philander Smith College, 1916; M.D., Howard University, 1921.

Ruth Barker Gerstung  Instructor in Bacteriology in Pediatrics
B.A., Washington University, 1917.

James S. Glotfelty  Instructor in Clinical Psychiatry
M.D., State University of Iowa, 1934.

Janet Golden  Instructor in Psychiatric Social Work
A.B., Washington University, 1924.

Melvin Goldman  Instructor in Clinical Medicine
A.B., Washington University, 1939; M.D., 1943.

Otto Henry William Grunow  Instructor in Radiology
A.B., University of California, 1936; M.D., Washington University, 1940.

Heinz Haffner  Instructor in Clinical Surgery
B.S., University of Arizona, 1931; M.D., Washington University, 1935.
Oscar Perry Hampton, Jr. Instructor in Clinical Orthopedic Surgery M.D., University of Tennessee, 1928.

Stanley Forrest Hampton Instructor in Clinical Medicine A.B., Washington and Lee University, 1930; M.D., Washington University, 1934.

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

Guardian Hardy Instructor in Clinical Otolaryngology M.D., Washington University, 1929.

Stanley Leonard Harrison Instructor in Clinical Pediatrics B.S., Washington University, 1928; M.D., 1930.

Raymond Francis Holden, Jr. Instructor in Clinical Medicine B.A., Washington University, 1933; M.D., 1933.

John Holland Dentist to the Department of Pediatrics A.B., Western Reserve University, 1939; D.D.S., 1943.

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


Herman Hulto Instructor in Clinical Obstetrics and Gynecology A.B., University of Alabama, 1932; M.D., Washington University, 1935.

Menard Ihnen Instructor in Pathology M.D., University of Illinois, 1946.

Frederick August Jacobs Instructor in Clinical Pediatrics B.S., Washington University, 1927; M.D., 1928.

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

Richard Johnson Instructor in Pathology A.B., Lafayette College, 1935; M.D., Johns Hopkins University, 1939.

Dorothy Jeannette Jones Instructor in Clinical Pediatrics A.B., Oberlin College, 1930; M.D., Washington University, 1934.

David F. Kahn Instructor in Medical Psychology B.S., University of Connecticut, 1942; M.S., Purdue University, 1946; Ph.D., 1948.

Alex H. Kaplan Instructor in Clinical Psychiatry B.S., College of City of New York, 1932; M.D., St. Louis University, 1936.

Michael Meyer Karl Instructor in Clinical Medicine M.D., University of Louisville, 1938.


David Nafe Kerr Instructor in Clinical Medicine A.B., University of Colorado, 1936; M.D., Washington University, 1941.
Teofil Kheim………………..Instructor in Pathology and Research Assistant (Assigned to the Division of Gerontology)  
M.D., University of Budapest, 1934.

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

Melvin B. Kirstein………………..Instructor in Clinical Medicine  
B.S., Indiana University, 1930; M.D., 1933.

William Gene Klingberg………………..Instructor in Pediatrics  
A.B., University of Wichita, 1938; M.D., Washington University, 1943.

Karl Frederick Koenig………………..Instructor in Clinical Medicine  
B.S., University of Illinois, 1923; M.D., Washington University, 1931.

Paul Edward Kubitschek………………..Instructor in Clinical Child Psychiatry and in Clinical Pediatrics  
B.S., Creighton University, 1918; M.D., 1922; D.Sc., University of Pennsylvania, 1928.

Edward L. Kuff………………..Instructor in Anatomy  
A.B., Johns Hopkins University, 1943; M.D., 1947.

Lorraine Lake………………..Instructor in Physical Therapy

Franz Leidler………………..Instructor in Pathology  
M.D., University of Vienna, 1938; M.S., Kansas State College, 1941.

Stanley Milton Leydig………………..Instructor in Clinical Orthopedic Surgery  
A.B., State University of Montana, 1930; M.D., Washington University, 1934.

Grover Bernard Liese………………..Instructor in Clinical Obstetrics and Gynecology  
A.B., Real-Gymnasium, Cassel, Germany, 1910; M.D., University of Heidelberg, 1918.

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

Carl Edward Lischer………………..Instructor in Clinical Surgery  
A.B., University of California, 1933; M.D., Washington University, 1937.

Sol Londe………………..Instructor in Clinical Pediatrics  
B.S., Washington University, 1925; M.D., 1927.

Maurice Julius Lonsway………………..Instructor in Clinical Pediatrics  
B.S., Valparaiso University, 1910; M.D., St. Louis University, 1914.

Edward Harry Lyman………………..Instructor in Clinical Otolaryngology  
B.S., Washington University, 1937; M.D., 1937.

George Manting………………..Instructor in Clinical Dermatology  
M.D., University of Michigan, 1915.

Morris David Marcus………………..Instructor in Clinical Dermatology  
M.D., Washington University, 1934.

Paul Franklin Max………………..Instructor in Clinical Obstetrics and Gynecology  
B.S., Washington University, 1932; M.D., 1932.

Richard Wesley Maxwell………………..Instructor in Clinical Medicine  
A.B., Greenville College, 1932; M.D., University of Chicago, 1937.
William Henry Meinberg, Jr.  Instructor in Clinical Ophthalmology
B.S., in Medical Science, Washington University, 1932; M.D., 1932.

Mildred L. Merrifield.  Instructor in Psychiatric Social Work
A.B., Smith College, 1935; M.S.S., Western Reserve University, 1939.

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

Benjamin Milder ... Instructor in Clinical Ophthalmology
M.D., Washington University, 1939.

Paul W. Miles ... Instructor in Ophthalmology
A.B., University of Kansas, 1935; M.D., 1938.

John James Modlin ... Instructor in Clinical Surgery
B.S., University of Nebraska, 1934; M.D., 1938.

Seymour Maurice Monat ... Instructor in Clinical Obstetrics and Gynecology
A.B., University of Pennsylvania, 1935; M.D., Long Island College of Medicine, 1939.

Kevin Charles Morriss ... Instructor in Clinical Obstetrics and Gynecology
M.B., B.Ch., National University of Ireland, 1921.

Joseph William Noah ... Instructor in Clinical Medicine
A.B., University of Missouri, 1938; B.S., 1939; M.D., Washington University, 1941.

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

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

Robert Paine ... Instructor in Clinical Medicine
M.D., Harvard University, 1944.

James Oscar Palmer ... Instructor in Medical Psychology
A.B., University of California, 1940; Ph.D., 1949.

Harry E. Panhorst ... Instructor in Hospital Administration and Associate Director of the Course in Hospital Administration

Leslie Endicott Patton ... Instructor in Clinical Obstetrics and Gynecology
B.S., St. Louis University, 1921; M.D., 1924.

Miriam M. Pennoyer ... Instructor in Clinical Pediatrics
B.S., Carnegie Institute, 1935; M.D., University of Rochester, 1939.

Anne Macgregor Perley ... Instructor in Biological Chemistry in Pediatrics
A.B., Grinnell College, 1927; A.M., University of Nebraska, 1929.

Allen B. Potter ... Instructor in Clinical Otolaryngology
A.B., William Jewell College, 1916; M.D., St. Louis University, 1924.
Harold K. Roberts. Instructor in Clinical Medicine
A.B., Ohio State University, 1935; M.D., 1939.

Edith C. Robinson. Instructor in Clinical Pediatrics
M.D., Johns Hopkins University, 1932.

William J. Robinson. Instructor in Clinical Psychiatry
M.D., Medical College of Virginia, 1939.

Maurice Bernard Roche. Instructor in Clinical Orthopedic Surgery
M.D., St. Louis University, 1933.

Edwin Henry Rohlfing. Instructor in Clinical Pediatrics
M.D., Washington University, 1919.

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

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

Herman John Rosenfeld. Instructor in Clinical Medicine
M.D., University of Munich (Germany), 1923.

David C. Rothman. Instructor in Clinical Obstetrics and Gynecology

George E. Roulhac. Instructor in Neurological Surgery
M.D., Vanderbilt University, 1939.

Ernest T. Rouse, Jr. Instructor in Clinical Medicine
B.S., Alabama Polytechnic Institute, 1939; M.D., Washington University, 1943.

Wayne Arthur Rupe. Instructor in Clinical Pediatrics
A.B., University of Missouri, 1916; M.D., Washington University, 1918.

Leo A. Sachar. Instructor in Clinical Surgery
A.B., Washington University, 1938; M.D., 1940.

Llewellyn Sale, Jr. Instructor in Clinical Medicine
A.B., Yale University, 1936; M.D., Washington University, 1940.

Joseph Hoy Sanford. Instructor in Clinical Genitourinary Surgery
M.D., Tulane Medical College, 1908.

M. H. Scheele. Instructor in Clinical Dermatology
M.D., St. Louis University, 1909.

Beatrice Schulz. Instructor in Physical Therapy
B.S., Washington University, 1949.

Alfred Seymour Schwartz. Instructor in Clinical Pediatrics
M.D., Johns Hopkins University, 1936.

Willard Calvin Scrivner. Instructor in Clinical Obstetrics and Gynecology
B.S., Washington University, 1928; M.D., 1930.

William Bernard Seamen. Instructor in Radiology
M.D., Harvard University, 1941.

John Wickham Seddon. Instructor in Clinical Medicine
Ph.B., Yale University, 1931; M.D., Washington University, 1935.
Philip T. Shahan..........................Instructor in Clinical Ophthalmology
A.B., Harvard University, 1938; M.D., Washington University, 1942.

Frank O. Shobe.............................Instructor in Clinical Psychiatry
A.B., Washington University, 1938; M.D., 1942.

David Miller Skilling, Jr..................Instructor in Clinical Medicine
B.S., Washington and Jefferson College, 1923; M.D., Washington University, 1928.

Herbert M. Smit............................Instructor in Clinical Otolaryngology
M.D., St. Louis University, 1933.

David English Smith........................Instructor in Pathology
A.B., Central College, 1941; M.D., Washington University, 1944.

Milton Smith.................................Instructor in Clinical Medicine
B.S., Washington University, 1928; M.D., 1930.

Robert Moore Smith........................Instructor in Clinical Medicine
A.B., Washington University, 1936; M.D., 1940.

William Snoddy.............................Instructor in Pathology
M.D., University of Oklahoma, 1944.

A. Jackson Stacy, Jr.......................Instructor in Radiology
B. A., University of Mississippi, 1941; M.D., Washington University, 1947.

Franz Ulrich Steinberg.......................Instructor in Clinical Medicine
M.D., University of Berne (Switzerland), 1938.

Frances H. Stewart..........................Instructor in Clinical Obstetrics and Gynecology
M.D., Washington University, 1927.

Carliss Malone Stroud......................Instructor in Clinical Medicine
B.S., University of Mississippi, 1924; M.D., Washington University, 1926.

Albert Chesterfield D. Stutsman.........Instructor in Clinical Otolaryngology
B.S., Roanoke College, 1927; M.D., University of Virginia, 1931.

Adolph Surtshin............................Instructor in Physiology and Research Assistant in Gerontology
A.B., Columbia University, 1936; M.D., St. Louis University, 1941.

Elaine Moore Thomas.......................Instructor in Preventive Medicine and Public Health
B.S., University of Chicago, 1932; M.S., 1937; M.D., 1937.

Jean H. Thurston..........................Instructor in Pediatrics
B.A., University of Alberta, 1938; M.D., 1941.

John C. Tinsley............................Instructor in Medicine
B.S., College of William and Mary, 1939; M.D., University of Virginia, 1943.

George X. Trimble.........................Instructor in Medicine and in Preventive Medicine
A.B., University of Toronto, 1935; M.D., 1938.

Samuel A. Trufant III....................Instructor in Neurology
M.D., Tulane University, 1943.

1 Effective September 1, 1950.
Robert Votaw..............................Instructor in Clinical Otolaryngology
B.S., State University of Iowa, 1927; M.D., 1929.

Harry Ewing Wachtet......................Instructor in Clinical Pediatrics
A.B., Washington University, 1929; M.D., 1933.

Helman Chaim Wasserman...........Instructor in Clinical Obstetrics and
Gynecology
A.B., Johns Hopkins University, 1928; M.D., Washington University, 1932.

Carl August Wattenberg...........Instructor in Clinical Genitourinary Surgery
A.B., University of Kansas, 1934; M.D., 1937.

Graham Taylor Webster...........Instructor in Biological Chemistry
A.B., Harvard University, 1931; M.D., 1935.

John Harrison Wedig...........Instructor in Clinical Medicine
M.D., Washington University, 1938.

Herbert Charles Wiegand...........Instructor in Clinical Medicine
A.B., Washington University, 1940; M.D., 1943.

Harry William Wiese...........Instructor in Clinical Medicine
B.S., Washington University, 1929; M.D., 1922.

Arnold H. Williams...........Instructor in Physiology in Medicine
B.S., Washington University, 1939; M.D., Western Reserve University, 1943.

Edward B. Williams, Jr...........Instructor in Clinical Medicine
M.D., Meharry Medical College, 1944.

Wilfred E. Wooldridge...........Instructor in Clinical Dermatology
B.S., Drury College, 1939; M.D., Washington University, 1943.

Ralph Benson Woold...........Instructor in Obstetrics and Gynecology
B.S., Massachusetts Institute of Technology, 1935; M.D., University of Rochester, 1939.

George J. L. Wulff, Jr..........Instructor in Clinical Obstetrics and Gynecology
A.B., Washington University, 1929; M.D., 1933.

ASSISTANTS

Oliver Abel, Jr......................Assistant in Clinical Medicine
B.S., Washington University, 1922; M.D., 1923.

Morris Abrams......................Assistant in Clinical Genitourinary Surgery
B.S., University of Illinois, 1936; M.D., 1937.

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

Frank L. Adler......................Assistant in Bacteriology and Immunology
M.S., University of Kentucky, 1949.

Helen Margaret Aff......................Assistant in Clinical Pediatrics
B.S., Washington University, 1934; M.D., 1934.

Carl Jacob Althaus......................Assistant in Clinical Genitourinary Surgery
M.D., St. Louis University, 1917.
Rosemary Baessler. Research Assistant in Psychiatry
B.S., Northwestern University, 1941.

Adolph V. Baluka. Assistant in Occupational Therapy
John Washington Bassett. Assistant in Surgery
B.S., University of Arkansas, 1942; M.D., Tulane University, 1944.

J. Byron Beare. Assistant in Clinical Genitourinary Surgery
M.D., St. Louis University, 1939.

Clifton Harold Beasley. Assistant in Clinical Ophthalmology
B.S., University of Arkansas, 1938; M.D., 1941.

M. Remsen Behrer. Assistant in Pediatrics
A.B., Williams College, 1942; M.D., Long Island College of Medicine, 1945.

Leonard Berg. Assistant in Medicine
A.B., Washington University, 1945; M.D., 1949.

William Berman. Assistant in Clinical Obstetrics and Gynecology
M.D., Washington University, 1935.

Harvey Rolland Bernard. Assistant in Surgery
M.D., Washington University, 1947.

Marguerite Bick. Assistant in Clinical Occupational Therapy

Edward J. Bishop. Assistant in Surgery
M.D., University of Cincinnati, 1947.

Vilray Papin Blair, Jr. Assistant in Clinical Orthopedic Surgery
M.D., Washington University, 1939.

Clifford Read Boles. Assistant in Clinical Pediatrics
A.B., Washington University, 1940; M.D., 1943.

Bryce Harold Bondurant. Assistant in Clinical Obstetrics and Gynecology
A.B., Northeast Missouri State Teachers College, 1936; D.O., Kirksville College of Osteopathy and Surgery, 1940; M.D., Washington University, 1943.

MacDonald Bonebrake. Assistant in Obstetrics and Gynecology
B.S., Drury College, 1943; M.D., Washington University, 1946.

Henry William Bopp, Jr. Assistant in Surgery
M.D., Washington University, 1945.

Robert Dunlap Brookes. Assistant in Clinical Neurology
A.B., De Pauw University, 1934; M.D., Washington University, 1938.

Betty McDonald Caldwell. Assistant in Medical Psychology
A.B., Baylor University, 1945; M.A., State University of Iowa, 1946.

Martin M. Calodney. Assistant in Clinical Pediatrics
B.S., College of City of New York, 1930; M.D., New York University, 1936.

Marguerite Cannon. Assistant in Psychiatric Social Work
M.S.W., Washington University, 1947.

1 July 1 to July 31, 1950.
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>James Thomas Chamness</td>
<td>Assistant in Surgery</td>
</tr>
<tr>
<td>M.D., University of Pennsylvania, 1944.</td>
<td></td>
</tr>
<tr>
<td>Margaret Chieffi</td>
<td>Research Assistant (assigned to the Division of Gerontology)</td>
</tr>
<tr>
<td>M.D., University of New Zealand, 1937.</td>
<td></td>
</tr>
<tr>
<td>John Lloyd Cockrell</td>
<td>Assistant in Obstetrics and Gynecology</td>
</tr>
<tr>
<td>A.B., University of Missouri, 1939; B.S. in Medicine, 1941; M.A., 1941; M.D., Washington University, 1943.</td>
<td></td>
</tr>
<tr>
<td>Arthur L. Coleman, Jr.</td>
<td>Assistant in Radiology</td>
</tr>
<tr>
<td>B.A., Amherst College, 1948; M.D., Yale University, 1948.</td>
<td></td>
</tr>
<tr>
<td>William F. Collins, Jr.</td>
<td>Assistant in Surgery</td>
</tr>
<tr>
<td>B.S., Yale University, 1945; M.D., 1947.</td>
<td></td>
</tr>
<tr>
<td>Robert Milton Counts</td>
<td>Assistant in Neuropsychiatry</td>
</tr>
<tr>
<td>M.D., Washington University, 1947.</td>
<td></td>
</tr>
<tr>
<td>Harry Cutler</td>
<td>Assistant in Clinical Genitourinary Surgery</td>
</tr>
<tr>
<td>M.D., St. Louis University, 1930.</td>
<td></td>
</tr>
<tr>
<td>Arthur R. Dalton</td>
<td>Assistant in Clinical Surgery</td>
</tr>
<tr>
<td>B.S., University of Missouri, 1938; B.S. in Med., Northwestern University, 1940; M.D., 1941.</td>
<td></td>
</tr>
<tr>
<td>Morris Davidson</td>
<td>Assistant in Clinical Otolaryngology</td>
</tr>
<tr>
<td>B.S., Indiana University, 1936; M.D., 1938.</td>
<td></td>
</tr>
<tr>
<td>Sadab Dhiraputra</td>
<td>Assistant in Otolaryngology</td>
</tr>
<tr>
<td>M.B., Chulalongkaran University (Thailand), 1940.</td>
<td></td>
</tr>
<tr>
<td>Frederick William Dowda</td>
<td>Assistant in Medicine</td>
</tr>
<tr>
<td>B.S., Emory University, 1944; M.D., 1949.</td>
<td></td>
</tr>
<tr>
<td>Norman Walter Drey</td>
<td>Assistant in Clinical Medicine</td>
</tr>
<tr>
<td>A.B., Princeton University, 1932; M.D., Washington University, 1936.</td>
<td></td>
</tr>
<tr>
<td>Oliver H. Duggins</td>
<td>Research Assistant in Anatomy</td>
</tr>
<tr>
<td>B.S., Northwestern University, 1934; M.S., 1936.</td>
<td></td>
</tr>
<tr>
<td>Richard Warren Eells</td>
<td>Assistant in Radiology</td>
</tr>
<tr>
<td>A.B., Columbia University, 1944; M.D., Cornell University, 1947.</td>
<td></td>
</tr>
<tr>
<td>Calvin Carlyle Ellis</td>
<td>Assistant in Clinical Dermatology</td>
</tr>
<tr>
<td>A.B., Washington University, 1937; M.D., 1941.</td>
<td></td>
</tr>
<tr>
<td>Irwin Herman Eskeles</td>
<td>Assistant in Clinical Dermatology</td>
</tr>
<tr>
<td>B.S., Washington University, 1920; M.D., 1922.</td>
<td></td>
</tr>
<tr>
<td>George M. Ewing</td>
<td>Assistant in Pediatrics</td>
</tr>
<tr>
<td>M.D., Washington University, 1946.</td>
<td></td>
</tr>
<tr>
<td>Kenneth J. Fijan</td>
<td>Assistant in Pediatrics</td>
</tr>
<tr>
<td>Harry William Fischer</td>
<td>Assistant in Surgery</td>
</tr>
<tr>
<td>B.S., University of Chicago, 1943; M.D., 1943.</td>
<td></td>
</tr>
</tbody>
</table>

1 On leave of absence.
Virgil Otto Fish........................................Assistant in Clinical Surgery
M.D., Washington University, 1930.

Alfred Fleishman..................................Assistant in Clinical Medicine
B.S., Washington University, 1935; M.D., 1935.

Bruce Todd Forsyth...............................Assistant in Medicine
M.D., Washington University, 1947.

Leon J. Fox........................................Assistant in Clinical Orthopedic Surgery
B.S. in M.S., Washington University, 1939; M.D., 1939.

Harold E. Freedman................................Assistant in Clinical Medicine
Ph.B., Yale University, 1929; M.D., Washington University, 1938.

Robert H. Friedman...............................Assistant in Pediatrics
M.D., Washington University, 1948.

Gus J. Furla........................................Assistant in Physical Medicine
A.B., St. Louis University, 1938; M.D., 1946.

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

William J. Gallagher............................Assistant in Pediatrics
M.D., Cornell University, 1947.

Bernard Theodore Garfinkel.....................Assistant in Medicine
M.D., Washington University, 1948.

Mary B. Gilliland................................Assistant in Pediatrics
B.S., Howard College, 1944; M.D., Medical College of Alabama, 1947.

Bertrand Younker Glassberg.....................Assistant in Clinical Medicine
B.S., Washington University, 1923; M.D., 1925.

Samuel Walter Gollub............................Assistant in Clinical Pediatrics
B.S. in Med. Sci., Washington University, 1941; M.D., 1941.

Bernard S. Gordon................................Assistant in Neuropsychiatry
A.B., University of Michigan, 1937; M.D., University of Louisville, 1942.

Leo Francis Gown................................Assistant in Clinical Pediatrics
A.B., Overbrook College, 1934; M.D., Temple University, 1938.

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

Arthur S. Greditzer................................Assistant in Neuropsychiatry
M.D., Washington University, 1948.

Kendall Decatur Gregory.......................Assistant in Clinical Medicine
M.D., Washington University, 1940.

Axel Reinhold Gronau............................Assistant in Clinical Medicine
M.D., University of Naples, 1935.

Eunice Grover......................................Research Assistant in Medicine

Gerhard Elias Gruenfeld.......................Assistant in Clinical Surgery
M.D., Friedrich-Wilhelms University, 1923.
Charles Russell Gulick. Assistant in Clinical Obstetrics and Gynecology
A.B., Central College, 1940; M.D., St. Louis University, 1943.

Landon H. Gurnee. Assistant in Otolaryngology
B.S., University of Tennessee, 1940; M.D., 1944.

Andy Hall, Jr. Assistant in Clinical Genitourinary Surgery
M.D., Washington University, 1926.

Lawrence Keats Halpern. Assistant in Clinical Dermatology
M.D., University of Colorado, 1937.

Norman Merlin Hankin. Assistant in Clinical Pediatrics
A.B., University of Wisconsin, 1940; M.D., 1943.

From Hansen. Research Assistant (assigned to the Division of Gerontology)
M.D., University of Copenhagen, 1940.

Alex Harell. Assistant in Physical Medicine and in Orthopedic Surgery
M.D., Washington University, 1942.

Helen Harkness. Assistant in Clinical Occupational Therapy

Fleming H. Harper. Assistant in Surgery
M.D., Medical College of Virginia, 1947.

Lamar B. Harper. Assistant in Clinical Ophthalmology
M.D., George Washington University, 1936.

Lee Bullen Harrison. Assistant in Clinical Medicine
A.B., University of Utah, 1925; M.D., Washington University, 1927.

Hugh Harting. Assistant in Radiology
M.D., Washington University, 1948.

Paul Tupper Hartman. Assistant in Clinical Psychiatry
A.B., Washington University, 1934; M.D., 1938.

Arthur L. Haskins. Assistant in Obstetrics and Gynecology
B.S., University of Rochester, 1938; M.D., 1943.

William Davis Hawker. Assistant in Clinical Obstetrics and Gynecology
B.S., Shurtleff College, 1933; M.D., Washington University, 1938.

Samuel J. Hayward. Research Assistant in Obstetrics and Gynecology Pathology

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

David Floyd Hersey. Assistant in Bacteriology and Immunology
B.S., Trinity University, 1947; M.S., University of Illinois, 1948.

Helen L. Hilderman. Research Assistant in Medicine
A.B., Woman's College of University of North Carolina, 1944.

Thomas R. Hinchey. Assistant in Surgery
A.B., Boston College, 1942; M.D., Tufts University, 1945.
Helen Louise Hofsommer
Assistant in Clinical Pediatrics
B.S. in Medical Science, Washington University, 1947; M.D., 1947.

Earl P. Holt, Jr.
Assistant in Surgery
A.B., Duke University, 1942; M.D., 1945.

William S. Horowitz
Assistant in Neuropsychiatry
B.S., University of Chicago, 1945; M.D., 1948.

Ellabeth Houghton
Research Assistant in Medicine
A.B., Washington University, 1939.

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

Mary Chapman Johnson
Research Assistant in Medicine
A.B., Washington University, 1938.

John T. Johnstone, Jr.
Assistant in Neuropsychiatry

Lawrence I. Kahn
Assistant in Pediatrics
A.B., University of Alabama, 1941; M.D., Louisiana State University, 1945.

Barbara Standish Kendall
Assistant in Medical Psychology
A.B., Radcliffe College, 1913; Ed.M., Harvard University, 1928.

John Kennedy
Assistant in Clinical Medicine
M.D., McGill University, 1945.

Daniel David Klaff
Assistant in Clinical Otolaryngology
B.S., University of Virginia, 1933; M.D., 1936.

Norman E. Knowlton
Assistant in Medicine
B.S., Harvard University, 1942; M.D., 1945.

Robert Eugene Koch
Assistant in Clinical Medicine
A.B., Washington University, 1936; M.D., 1940.

Kenneth Albert Koerner
Assistant in Clinical Pediatrics
A.B., Washington University, 1935; M.D., 1941.

Jules H. Kopp
Assistant in Clinical Genitourinary Surgery
M.D., University of Arkansas, 1931.

Lawrence Melvin Kotner
Assistant in Clinical Medicine
A.B., Washington University, 1934; M.D., 1938.

Edward H. Kowert
Assistant in Clinical Psychiatry
A.B., Washington University, 1940; M.D., 1943.

Cletus L. Krag
Research Assistant (assigned to Division of Gerontology)
B.A., Stanford University, 1943; M.D., Boston University, 1947.

Marianne Kuttner
Assistant in Clinical Pediatrics
M.D., Johan Wolfgang Goethe University (Frankfurt on Main), 1931.

Robert S. Lackey
Assistant in Radiology
M.D., Jefferson Medical College, 1948.

1 On leave of absence.
Robert Dale Lange. Assistant in Medicine
A.B., Macalester College, 1941; M.D., Washington University, 1944.

Harry James Lawler. Assistant in Clinical Pediatrics
B.S., University of Illinois, 1936; D.Sc., Johns Hopkins University, 1940; M.D., Washington University, 1943.

Richard A. Lemmer. Assistant in Surgery
A.B., Kalamazoo College, 1941; M.D., Johns Hopkins University, 1944.

David M. Lieberman. Assistant in Medicine
M.D., Vanderbilt University, 1949.

Robert Loeffel. Research Assistant in Biological Chemistry
B.S.M.E., Washington University, 1929.

Warren M. Lonergan. Assistant in Clinical Medicine
A.B., Westminster College, 1936; M.D., Vanderbilt University, 1940.

Frank Barnes Long, Jr. Assistant in Obstetrics and Gynecology
M.D., Washington University, 1947.

Harry Ludwig. Research Assistant in Otolaryngology
B.S.E.E., University of Illinois, 1949.

Dorothy T. Magallon. Assistant in Obstetrics and Gynecology
M.D., Washington University, 1946.

Kurt Mansbacher. Assistant in Clinical Medicine
M.D., Friedrich-Wilhelms University, 1919.

Bruce H. Marshall. Assistant in Pediatrics
M.D., Western Reserve University, 1947.

John Charles Martz. Assistant in Clinical Pediatrics
A.B., University of Missouri, 1938; M.D., Washington University, 1942.

Evelyn P. Mason. Assistant in Medical Psychology
B.A., Mills College, 1946.

Herbert Arthur Mazur. Assistant in Clinical Pediatrics
M.D., Washington University, 1943.

Frances E. McCarthy. Research Assistant in Medicine

David N. McClure. Assistant in Clinical Pediatrics
M.D., University of Tennessee, 1940.

David F. Mendelson. Assistant in Neuropsychiatry
B.A., University of California, 1946; M.D., Indiana University, 1948.

Edna Marie Menhard. Research Assistant in Medicine
B.S., St. Louis University, 1946.

Floyd B. Merritt. Assistant in Pediatrics
A.B., State University of Iowa, 1943; M.D., 1946.

Kenneth D. Michael. Assistant in Neuropsychiatry
M.D., St. Louis University, 1947.

J. Neal Middelkamp. Assistant in Pediatrics
Warren Benjamin Mills .................. Assistant in Clinical Neuropsychiatry
B.S. in Med. Sci., Washington University, 1941; M.D., 1942.

Esther Lee Mirmow .................. Research Assistant in Clinical Psychology

Arnold S. Moe .................. Assistant in Clinical Medicine
B.S., University of Minnesota, 1933; M.B., 1934; M.D., 1939.

William A. Moor .................. Assistant in Ophthalmology
A.B., Washington University, 1935.

Charles Barber Mueller .................. Assistant in Surgery and Markle Fellow
A.B., University of Illinois, 1938; M.D., Washington University, 1942.

Emily Elizabeth Mueller .................. Research Assistant in Physical Medicine
B.S., University of Pittsburgh, 1944; M.S., Medical College of Virginia, 1950.

Robert John Mueller .................. Assistant in Clinical Neuropsychiatry
M.D., Washington University, 1936; M.S., University of Michigan, 1942.

Helen E. Nash .................. Assistant in Clinical Pediatrics
A.B., Spelman College, 1942; M.D., Meharry Medical College, 1945.

Joseph Morton Natterson .................. Assistant in Neuropsychiatry
A.B., West Virginia University, 1945; B.S. in Medicine, 1946; M.D., Washington University, 1948.

Jackson Coil Neavles .................. Assistant in Clinical Neuropsychiatry
A.B., Washington University, 1938; B.S., in Med. Sci. 1942; M.D., 1942.

John Francis Neville, Jr .................. Assistant in Surgery
B.S., Yale University, 1944; M.D., 1946.

Henry W. Noller .................. Assistant in Clinical Medicine
A.B., University of Kansas, 1941; M.D., Washington University, 1944.

Laurence Wayne O’Neal .................. Assistant in Surgery
M.D., Washington University, 1946.

Patricia Lee O’Neal .................. Assistant in Neuropsychiatry
A.B., Washington University, 1944; M.D., 1948.

Morton Pareira .................. Assistant in Clinical Surgery
A.B., Washington University, 1933; M.D., 1937.

James Pennoyer .................. Assistant in Clinical Obstetrics and Gynecology
B.S., Hobart College, 1933; M.D., University of Rochester, 1939.

William David Perry .................. Assistant in Medicine
A.B., Northwest Missouri State Teachers College, 1943; B.S., in Medicine, University of Missouri, 1945; M.D., Washington University, 1947.

Mather Pfeiffenberger, Jr .................. Assistant in Surgery
A.B., Yale University, 1941; M.D., Harvard University, 1944.

John Leahy Power* .................. Assistant in Ophthalmology
M.D., University of Tennessee, 1945.

Robert Henry Ramsey .................. Assistant in Surgery
B.S., University of Arkansas, 1943; M.D., Washington University, 1945.

* July 1, 1950, to May 31, 1951.
Ralph S. Riffenburgh1 Assistant in Clinical Ophthalmology
B.S., Virginia Polytechnic Institute, 1943; M.D., Medical College of Virginia, 1947.

Paul H. Ripple2 Assistant in Ophthalmology
B.S., Franklin and Marshall College, 1943; M.D., University of Pennsylvania, 1946.

James C. Roberts, Jr. Assistant in Pathology
A.B., Washington University, 1945; M.D., University of Rochester, 1949.

Donald W. Robinson Assistant in Obstetrics and Gynecology
M.D., Washington University, 1939.

Stanley N. Rokaw Assistant in Medicine
B.B.A., College of the City of New York, 1943; B.S., Washington University, 1949; M.D., 1949.

Doris Rolf Research Assistant in Physiology
A.B., Harris Teachers' College, 1936.

Marvin Rosecan Assistant in Medicine
B.S., Washington University, 1949; M.D., 1949.

Herbert E. Rosenbaum Assistant in Neuropsychiatry
B.S., University of Oregon, 1947; M.D., 1949.

Charles Augustus Ross, Jr. Assistant in Surgery
M.D., Columbia University, 1946.

Charles M. Ross Assistant in Medicine
M.D., University of Rochester, 1948.

Elsie Shaw Roush Assistant in Anatomy
B.S., in Education, Madison College, 1943; M.S., University of Wisconsin, 1947.

Robert Killian Royce Assistant in Clinical Genitourinary Surgery
B.S., University of Mississippi, 1939; M.D., Washington University, 1942.

Samuel Ely Schechter Assistant in Clinical Medicine
M.D., Washington University, 1941.

Frederick W. Scherrer, Jr. Assistant in Clinical Otolaryngology
B.S., St. Louis University, 1926; M.D., 1928; M.S., in Otolaryngology, University of Pennsylvania, 1932.

Richard Frederick Schneider Assistant in Neuropsychiatry
A.B., Washington University, 1944; M.D., 1947.

Sam Schneider Assistant in Clinical Surgery
A.B., Washington University, 1932; M.D., 1936.

Dale M. Schulz Assistant in Pathology
B.A., Miami University, 1940; M.S., Washington University, 1942; M.D., 1949.

Stanley H. Schuman Assistant in Pediatrics
M.D., Washington University, 1948.

Bernard Schwartzman Assistant in Clinical Pediatrics
A.B., Washington University, 1931; M.D., 1935.

---

1 July 1 to September 30, 1950.
2 August 1, 1950, to May 31, 1951.
James Harry Scruggs, Jr. 1 Assistant in Ophthalmology
B.A., University of Texas, 1943; M.D., 1945.

Gumaro Serrano Assistant in Otolaryngology
M.D., University of Mexico, 1943.

Charles Leon Shafer 2 Assistant in Medicine
A.B., University of Missouri, 1941; B.S., in Med., 1944; M.D., Harvard University, 1946.

John Blasdel Shapleigh II Assistant in Medicine
M.D., Washington University, 1946.

Burton Albert Shatz Assistant in Clinical Medicine
A.B., Washington University, 1940; M.D., 1943.

Harrison H. Shoulders, Jr. Assistant in Surgery
A.B., Vanderbilt University, 1943; M.D., 1946.

Wade H. Shuford Assistant in Radiology
M.D., University of Rochester, 1948.

Ernest S. Simms 3 Research Assistant in Surgery
Lewis Institute, (no degree); University of Minnesota, (no degree).

Richard G. Sisson Assistant in Surgery
M.D., Yale University, 1946.

John Spalding Skinner Assistant in Clinical Medicine
M.D., Washington University, 1940.

Justin Sleight 4 Assistant in Ophthalmology
A.B., Northwestern University, 1943; M.D., 1945.

Catherine A. Smith Research Assistant in Otolaryngology
A.B., Washington University, 1935; M.S., 1948.

Kathleen Smith Assistant in Neuropsychiatry
B.S., University of Arkansas, 1934; M.D., Washington University, 1949.

John W. Sneed, Jr. 4 Assistant in Ophthalmology
B.S., University of Arkansas, 1936; M.D., 1938.

Sanford Snyderman Assistant in Otolaryngology
M.D., Washington University, 1946.

Ross B. Sommer Assistant in Medicine
A.B., Miami University, 1945; M.D., Cornell University, 1949.

John K. Spitznagel Assistant in Medicine
A.B., Columbia University, 1943; M.D., 1946.

Wallace Raymond Stacey Assistant in Obstetrics and Gynecology
A.B., Southwest Missouri State Teachers College, 1936; B.S., in Medicine, University of Missouri, 1943; M.D., Washington University, 1945.

1 July 1 to December 31, 1950.
2 In residence at Los Alamos.
3 July 1, 1950, to October 31, 1950.
4 July 1, 1950, to May 31, 1951.
Colby S. Stearns..........................................................Assistant in Radiology
B.S., Yale University, 1943; M.D., 1946.

Marvin Stein..........................................................Assistant in Neuropsychiatry
B.S., Washington University, 1949; M.D., 1949.

Hugh Edward Stephenson, Jr......................................Assistant in Surgery
B.S., in Medicine, University of Missouri, 1943; M.D., Washington University, 1945.

Arthur Stickle, Jr.1....................................................Assistant in Ophthalmology
M.D., University of Oklahoma, 1943.

Jack L. Strominger.................................................Research Assistant in Pharmacology
A.B., Harvard University, 1947; M.D., Yale University, 1948.

Alfred R. Sudholt, Jr................................................Assistant in Clinical Obstetrics and Gynecology
A.B., University of Missouri, 1940; B.S., in Medicine, 1942; M.D., Washington University, 1943.

Richard Louis Thomas............................................Assistant in Ophthalmology
A.B., University of Nebraska, 1939; B.S., in Medicine, 1943; M.D., 1943.

Victor E. Tindelholt...............................................Research Assistant in Pathology
A.B., Luther College, 1944; M.S., Washington University, 1947.

Stanley Truhlsen1....................................................Assistant in Ophthalmology
A.B., University of Nebraska, 1941; M.D., 1944.

Jack Lee Turner......................................................Assistant in Otolaryngology
B.S., Southern Methodist University, 1943; M.D., Baylor University, 1946.

Dominic Joseph Verda..............................................Assistant in Clinical Surgery
A.B., University of Illinois, 1924; M.A., 1930; M.D., Johns Hopkins University, 1935.

Willard B. Walker..................................................Assistant in Surgery
M.D., Washington University, 1946.

William B. Wall, Jr.................................................Assistant in Surgery
B.S., University of Georgia, 1942; M.D., 1946.

Charles Watkins......................................................Assistant in Otolaryngology
B.S. in Med., University of Arkansas, 1944; M.D., 1946.

Watts Rankin Webb..................................................Assistant in Surgery
B.A., University of Mississippi, 1942; M.D., Johns Hopkins University, 1945.

Eugene Weber.........................................................Assistant in Clinical Dermatology
M.D., Northwestern University, 1940.

Calvin James Wegner...............................................Assistant in Pathology
B.S., University of Wisconsin, 1945; M.D., 1947.

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

George Winokur......................................................Assistant in Neuropsychiatry
A.B., Johns Hopkins University, 1944; M.D., University of Maryland, 1947.

1 July 1, 1950, to May 31, 1951.
Frank Sum Wissmath  Assistant in Clinical Pediatrics
A.B., Washington University, 1939; M.D., 1943.

Seth E. Wissner  Assistant in Obstetrics and Gynecology
A.B., Washington University, 1942; M.D., 1946.

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

Doris Surles Woolsey  Assistant in Clinical Otolaryngology
B.S., Duke University, 1938; M.D., 1939.

Richard William Yore  Assistant in Surgery
A.B., Washington University, 1939; M.D., 1943.

**LECTURERS**

William Anderson  Lecturer in Hospital Administration

Leon P. Beck  Lecturer in Occupational Therapy

Henrietta Becker  Lecturer in Dietetics
B.S., in Ed., University of Kansas, 1937.

Estelle Claiborne  Lecturer in Hospital Administration
F.A.C.H.A.

Glynn E. Clark  Lecturer in Occupational Therapy

William W. Crowdus  Lecturer in Medical Jurisprudence
LL.B., Washington University, 1922.

Edgar Van Norman Emery  Lecturer in Psychiatry
M.B., University of Toronto, 1911; M.D., 1931.

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

Grace Huey  Lecturer in Hospital Administration
R.N., Washington University, 1938.

Florence Ellen King  Lecturer in Hospital Administration

Cornelia S. Knowles  Lecturer in Hospital Administration
R.N., Washington University, 1925.

Jesse B. Lasater  Lecturer in Vital Statistics

Curtis H. Lohr  Lecturer in Hospital Administration
B.S., Washington University, 1920; M.D., 1922.

Maynard W. Martin  Lecturer in Hospital Administration
B.S., Mount Union College, 1925; M.D., Western Reserve University, 1930.

Harry J. Mohler  Lecturer in Hospital Administration

Martha Spencer  Lecturer in Hospital Administration
A.B., Lindenwood College, 1941.
THE SCHOOL OF MEDICINE

Crofford Oliver Vermillion........................................Lecturer in Hospital Administration
A.B., DePauw University, 1939; M.D., Washington University, 1947.

Elmer P. Wheeler....................................................Lecturer in Industrial Hygiene
B.S. in Chemistry, University of New Hampshire, 1936.

Joseph C. Willett..................................................Lecturer in Public Health
D.V.M., United States Veterinary College, 1920.

FELLOWS

Robin G. Anderson..............................................Fellow in Plastic Surgery
A.B., Princeton University, 1939; M.D., Harvard University, 1943.

Seth Barnes.........................................................Fellow in Dermatology
M.D., University of Tennessee, 1935.

John R. Beem.......................................................Fellow in General Medicine
B.S., Northwestern University, 1942; M.D., Medical College of Virginia, 1945.

Ralph Berg, Jr.......................................................Fellow in General Surgery
B.S., State College of Washington, 1943; M.D., Washington University, 1945.

John W. Berry....................................................Life Insurance Medical Research Fellow in Infectious Diseases
B.S., University of Toledo, 1943; M.D., St. Louis University, 1946.

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

David H. Brown...................................................Merck Postdoctoral Fellow in Biological Chemistry
B.S., California Institute of Technology, 1942; Ph.D., 1948.

Theodore J. Capeci................................................Fellow in General Surgery
M.D., Columbia University, 1948.

W. Smoot Carter..................................................Fellow in Dermatology
M.D., Medical College of Virginia, 1943.

Arthur Chapman..................................................Fellow in Psychiatry
B.S., Yale University, 1944; M.D., 1947.

Margaret Helen Clare..............................................Fellow in Neurophysiology
B.S. in Education, Southwest Missouri State College, 1940.

Edmund V. Cowdry, Jr............................................Fellow in Psychiatry
A.B., Princeton University, 1942; M.D., Washington University, 1945.

Angelo P. Creticos................................................Fellow in General Medicine
B.S., College of Charleston, 1942; M.D., Medical College of the State of South Carolina, 1946.

Arnold Dankner......................................................Research Fellow in Allergy
M.D., Washington University, 1947.

Banyen Davihdhandana..........................................Fellow in Anatomy
M.B., Chulalongkorn University (Siam), 1929.

1 July 1 to September 30, 1950.
2 On leave of absence.
Albert Eisenstein..............................Research Fellow in Nutrition
A.B., University of Missouri, 1941; M.D., Washington University, 1944.

James O. Elam..............................Fellow in Anesthesiology
A.B., University of Texas, 1942; M.D., Johns Hopkins University, 1945.

William M. Enright.......................U. S. Navy Fellow in Dermatology
M.D., McGill University, 1940.

Alonza Lewis Farr..............................Research Fellow in Metabolism
B.S., Millsaps College, 1941; M.D., Washington University, 1947.

Cesar Fernandez^2...........Kellogg Foundation Fellow in Otolaryngology
M.D., University of Chile, 1936.

Thomas J. Fitzpatrick......................Fellow in General Medicine
B.S., University of Missouri, 1943; M.D., Washington University, 1945.

Sam Frankel.....................................Fellow in Cancer Research
B.S., Southern Illinois University, 1946.

James G. Gabbard.............................Fellow in Thoracic Surgery
M.D., University of Texas, 1948.

Ralph V. Gieselman............................Fellow in Gastroenterology
M.D., Washington University, 1947.

John Glover^3..........................Commonwealth Fund Fellow in Radiology
M.Sc., Queens University (Belfast), 1941; Ph.D., University of Liverpool, 1947.

Sidney Goldring...............................Fellow in Neurology
M.D., Washington University, 1947.

D. Wells Goodrich, Jr........................Fellow in Psychiatry
M.D., Harvard University, 1947.

Gregory C. Gressel..........................Fellow in Psychiatry
B.S., Xavier University, 1943; M.D., University of Cincinnati, 1946.

Marvin Henry Grody........................Fellow in Obstetrics and Gynecology
B.A., University of Pennsylvania, 1943; M.D., 1946.

Samuel B. Guze.................................Fellow in Psychiatry
M.D., Washington University, 1945.

William J. Harrington......................Fellow in Hematology and National Cancer Institute Trainee in Medicine
M.D., Tufts University, 1947.

Leopold Hofstatter........................Research Fellow in Neuropsychiatry
M.D., University of Vienna, 1926.

J. W. Hollingsworth........................Fellow in Hematology and National Cancer Institute Trainee in Medicine
M.D., Duke University, 1947.

^1 July 1 to September 30, 1950.
^2 July 1 to August 31, 1950.
^3 July 1 to December 31, 1950.
William Edward Hunt.................Fellow in Neurosurgery
A.B., Ohio State University, 1943; M.D., 1945.

Anne Fulcher Hunter..................Fellow in Pediatric Psychiatry
B.A., University of Wisconsin, 1937; M.D., Johns Hopkins University, 1941.

Hal B. Jennings.......................Fellow in Plastic Surgery
M.D., University of Michigan, 1941.

Robert Jim..................................Fellow in General Medicine
B.S., University of Chicago, 1945; M.D., 1948.

Cedric C. Johnson......................Fellow in Obstetrics and Gynecology
M.D., University of Nebraska, 1943.

Robert B. King.........................Fellow in Neurological Surgery
M.D., University of Rochester, 1946.

Frederick William Klinge..............Fellow in General Surgery
A.B., University of Missouri, 1938; M.D., Washington University, 1942.

Robert L. Lam..........................Fellow in Neurology
A.B., University of Michigan, 1941; M.D., 1944.

Wanda Lamb..............................Fellow in Psychiatry
B.S. in Medicine, University of Missouri, 1946; M.D., Washington University, 1948.

Elfred H. Lampe.........................Fellow in Obstetrics and Gynecology
B.S. in Medicine, University of Missouri, 1946; M.D., Washington University 1948.

William M. Landau....................Fellow in Neurology
M.D., Washington University, 1947.

Joseph Larner.........................National Institute of Health and Life Insurance
Medical Research Fellow in Biological Chemistry
M.D., Columbia University, 1945.

Virgil Loeb, Jr.......................Research Fellow in Hematology
M.D., Washington University, 1944.

James O. Lottes.......................Fellow in Orthopedic Surgery
B.S. in Medicine, University of Missouri, 1935; M.D., University of Louisville, 1937.

Sumner N. Marder......................American Cancer Society Fellow in Radiology
A.B., Harvard University, 1943; M.D., Yale University, 1947.

John I. Matthews.....................Fellow in Gastroenterology
M.D., Wayne University, 1943.

William P. McCann....................Life Insurance Medical Research
Fellow in Pharmacology
M.D., Cornell University, 1949.

John D. Morrow.......................Fellow in General Medicine
M.D., University of Western Ontario, 1946.

Donald L. Opdyke....................Research Fellow in Anatomy
James W. Owen, Jr. ........................................ Fellow in Cardiology
M.D., Washington University, 1946.

Charles R. Park ........................................ Welch Fellow in Medicine
A.B., Harvard University, 1937; M.D., Johns Hopkins University, 1941.

Ann De Huff Peters ........................................ Fellow in Neuropsychiatry and in Preventive Medicine
A.B., University of New Mexico, 1936; B.S., Simmons College, 1937; M.S., 1938; M.D., Washington University, 1946.

Richard M. Peters ........................................ Fellow in Thoracic Surgery
B.S., Yale University, 1943; M.D., 1945.

Edwin F. Price, Jr. ........................................ Fellow in Psychiatry
A.B., University of Kansas, 1942; M.D., 1945.

Peter Randall ........................................ Fellow in Plastic Surgery
M.D., Johns Hopkins University, 1946.

Fevzi Renda ........................................ Fellow in Hematology
M.D., University of Istanbul, 1945.

Eli Robins ........................................ United States Public Health Service Fellow in Psychiatry and in Pharmacology
B.A., Rice Institute, 1940; M.D., Harvard University, 1943.

Robert M. Ruch ........................................ Fellow in Obstetrics and Gynecology
A.B., Princeton University, 1944; M.D., University of Pennsylvania, 1947.

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

James Louis Shricker, Jr. ................................ Fellow in Neurosurgery
A.B., University of Utah, 1939; M.D., Washington University, 1943.

Alfred I. Sherman ........................................ Fellow in Obstetrics and Gynecology
M.D., University of Toronto, 1944.

Arthur H. Stein, Jr. ........................................ Fellow in Orthopedic Surgery
A.B., Amherst College, 1945; M.D., Washington University, 1948.

Philip H. Starr ........................................ Fellow in Psychiatry
M.D., University of Toronto, 1944.

Robert W. Stevens ........................................ Fellow in Obstetrics and Gynecology
M.D., St. Louis University, 1936.

David W. Talmage ........................................ U. S. Public Health Service Fellow in Pathology
B.S., Davidson College, 1941; M.D., Washington University, 1944.

Pradit Tansurat ........................................ Fellow in Pathology (Government of Siam)
M.B., University of Chulalongkorn (Siam), 1935; M.D., 1945.

Lloyd W. Taylor ........................................ U. S. Army Fellow in Orthopedic Surgery
M.D., University of Oklahoma, 1941.

Humbert Torloni ........................................ Fellow in Pathology (Cancer Society of Sao Paulo)
M.D., University of Sao Paulo (Brazil), 1948.
Samuel A. Trufant III \textsuperscript{1} \textit{United States Public Health Service Fellow in Neurology}  
M.D., Tulane University, 1943.

Chan-nam Tze \textit{Fellow in Obstetrics and Gynecology}  
M.D., University of Paris, 1949.

Andrew H. Veldhuis \textit{Fellow in Obstetrics and Gynecology}  
A.B., Hope College, 1943; M.D., Johns Hopkins University, 1947.

Conrad R. Walters \textit{Fellow in Obstetrics and Gynecology}  
A.B., Vanderbilt University, 1943; M.D., 1947.

Hugh R. Waters \textit{Research Fellow in Cardiology}  
B.S., Northwestern University, 1942; M.D., 1945.

James Weaver \textit{Fellow in Cancer Research}  
B.S., Northwestern University, 1945; M.D., 1948.

James C. Wegner \textit{U. S. Army Fellow in Surgical Pathology}  
M.D., University of Wisconsin, 1947.

Byron S. Wenger \textit{United States Public Health Service Fellow in Pharmacology}  
B.S., University of Wyoming, 1940; M.S., 1941; Ph.D., Washington University, 1949.

Richard K. Winkelmann \textit{Research Fellow in Anatomy}  
B.S., University of Akron, 1947; M.D., Marquette University, 1948.

\textsuperscript{1} July 1 to August 31, 1950.
OFFICERS AND COMMITTEES OF THE FACULTY OF THE SCHOOL OF MEDICINE

EXECUTIVE FACULTY

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

Philip A. Shaffer   W. Barry Wood, Jr.
Evarts A. Graham    Edwin F. Gildea
Jacques J. Bronfenbrenner    Frank R. Bradley
Carl F. Cori        H. Lester White
Lawrence T. Post    Oliver H. Lowry
Alexis F. Hartmann  Robert E. Shank
Willard M. Allen    Hugh M. Wilson
Theodore E. Walsh   Edward W. Dempsey

GENERAL FACULTY

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

STANDING COMMITTEES

MEDICAL EDUCATION

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

LIBRARY

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

ADMISSIONS AND SCHOLARSHIPS

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

PROMOTIONS

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

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

Albert I. Mendeloff, M.D., M.P.H. .......... Physician in Charge of Student Health Service at the Medical Center

Marion A. Murphy, B.A., B.S. .............. Librarian (School of Medicine)

Helen Kaiser .................................. Administrative Assistant to the Dean

Louise Jacoby, A.B. .......................... Administrative Secretary to the Dean

Bettye Jo Case, B.J. ......................... Administrative Secretary to the Dean
STAFF OF AFFILIATED HOSPITALS

THE MEDICAL CENTER
Barnes Hospital, St. Louis Children’s Hospital, St. Louis
Maternity Hospital, and McMillan Hospital

JOINT MEDICAL BOARD

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

THE BARNES HOSPITAL

Board of Trustees

Mr. Albert M. Keller........................................Chairman
Mr. Arthur Drefs ................................................Mr. J. W. McAfee
Mr. Andrew Johnson ........................................Mrs. E. E. Pershall
Mr. Edgar Rand

Administration

Frank R. Bradley, M.D...........................................Director
William Anderson ...............................................Comptroller
Cornelia S. Knowles, R.N.................................Associate Director—McMillan
Grace Huey, R.N..................................................Associate Director—Maternity
Harry Panhorst, A.B., B.S.................................Associate Director—Clinics
Crofford Vermillion, M.D.................................Associate Director—Barnes
E. H. Perry, M.D................................................Personnel Physician
Arthur Coltrin ..................................................Administrative Resident
Evangelos Rizos ................................................Administrative Resident
Mildred Bradbury, R.N..........................Executive Assistant—Barnes
Dee Scheer, R.N...............................................Executive Assistant—Maternity
Mildred White, R.N...........................................Executive Assistant—McMillan
Jane Washburn, R.N.................................Executive Assistant—Barnes
Theresa Roberts, R.N..........................Executive Assistant—Barnes
Dorothy Pappas .................................................Social Worker
Earl L. Rapp ..................................................Intern
Mary Crooks ....................................................Intern
THE SCHOOL OF MEDICINE

MEDICINE

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

Assistant Physicians

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

Ernest T. Rouse

Voluntary Assistant Physicians
Melvin Goldman  
Burton Shatz

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

House Staff—1950-51

Resident on Ward Service
William D. Perry

Assistant Residents on Ward Service
Frederick W. Dowda  
Bernard T. Garfinkel  
David M. Lieberman  
Stanley N. Rokaw  
Ross B. Sommer  
John K. Spitznagel

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

John H. Walters

Resident on Private Service
Bruce T. Forsyth
THE SCHOOL OF MEDICINE

Assistant Residents on Private Service
Leonard Berg
Norman P. Knowlton, Jr.
John B. Shapleigh II

Interns on Private Service
Donald Finger
Richard M. Freidenberg
Harold J. Joseph
Dorothy L. Reycroft

Surgery
Evarts A. Graham
J. Albert Key
Dalton K. Rose
Henry G. Schwartz
J. Barrett Brown
Ernest Sachs
Vilray P. Blair

Surgeon-in-Chief
Associate Surgeon
Associate Surgeon
Associate Surgeon
Associate Surgeon
Associate Surgeon

Assistant Surgeons
Arthur O. Fisher
Clyde H. Copher
J. Hoy Sanford
Rogers Deakin
Duff S. Allen
Frederick A. Jostes
Theodore P. Brookes
Robert Elman
Henry S. Brookes
Clarence H. Crego
Franklin E. Walton
Peter Heinbecker
Leonard T. Furlow
John Patton
Robert W. Bartlett
Louis T. Byars
H. R. McCarroll
Eugene Bricker
Maurice B. Roche

Voluntary Assistant G. U. Surgeons
Carl J. Althaus
Harry Cutler
Jules H. Kopp

O. P. Hampton
H. L. Thieme
Stanley Leydig
Justin Cordonnier
Frank McDowell
J. G. Probststein
Carl Wattenberg
Heinz Haffner
Carl Lischer
Charles Eckert
Leon Fox
Thomas Burford
Cyril J. Costello
Fred Reynolds
George Roulhac
Richard T. Odell
Minot P. Fryer
Vilray P. Blair, Jr.
Robert K. Royce

K. O. Wilson
William H. West
J. Byron Beare
**Voluntary Assistant Orthopedic Surgeons**

<table>
<thead>
<tr>
<th>Name</th>
<th>Specialty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lee T. Ford</td>
<td></td>
</tr>
<tr>
<td>Ernest Holscher</td>
<td></td>
</tr>
</tbody>
</table>

**Voluntary Assistants (Fellows)**

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

**House Staff—1950-51**

**Residents**

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

**Assistant Residents**

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

**Interns**

- Bernard Cooperman
- Robert Lowell Dame
- Zelig Herbert Lieberman
- William T. Newton
THE SCHOOL OF MEDICINE

Harold Ellis Rhame, Jr.          Robert H. Lund
Robert P. Shanewise             Charles P. McGinty
Malcolm E. Levenson             John A. Moncrief
Stanley L. London               Daniel L. Morgan

PATHOLOGY

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

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

Visiting Fellows in Pathologic Anatomy
Pradit Tansurat                   Humberto Torloni

House Staff—1950-51

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

Assistant Residents in Pathologic Anatomy
Menard Ihnen (7-1-50 to 12-31-50)  James Roberts
Dale Schulz                       Calvin Wegner

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

Assistant Resident in Surgical Pathology
Calvin Wegner (1-1-51 to 6-30-51)

Interns in Pathology
J. D. Wheeler                     Richard Swarm
Fred T. Caldwell

CENTRAL LABORATORIES
(Clinical Pathology)
Gustave Dammin..........................Director
John Hobbs                         Charles Eckert

SURGICAL PATHOLOGY
Lauren V. Ackerman......................Surgical Pathologist
RADIOLOGY

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

Assistant Radiologists

Oscar Zink
Otto H. Grunow

House Staff—1950-51

Resident
A. Jack Stacy

Associate Residents

Wesley Fee
Thomas Keely

Assistant Residents

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

Interns

Wade H. Shuford
Art Coleman

DERMATOLOGY

Richard S. Weiss ........................................... Dermatologist-in-Chief
Martin F. Engman ........................................... Dermatologist-in-Chief Emeritus

Assistant Dermatologists

A.H. Conrad, Sr.
William G. Coleman
Martin F. Engman, Jr.

Clintion W. Lane
Irwin Esekeles
Adolph H. Conrad, Jr.

James Bagby

Fellows

Seth Barnes
William Enright

Thomas Moffatt
W. Smoot Carter

PHYSICAL MEDICINE

Sedgwick Mead .............................................. Chief of Physical Medicine
Gus Furla ....................................................... Resident
THE SCHOOL OF MEDICINE

DENTISTRY

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

Assistant Dentists

Lester H. Jasper
Ruth M. Martin
E. C. Brooks
Woodrow O'Brien
John Bird

William E. Koch, Jr.
F. G. Baetz
Harold Schreiber
Webb B. Gurley
Carl Lattner

House Staff

Intern
Klye Lee

SPECIAL DEPARTMENTS

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

ST. LOUIS MATERNITY AND BARNES HOSPITAL

OBSTETRICS AND GYNECOLOGY

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

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

Ralph B. Woolf

Voluntary Assistants (Fellows)

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

House Staff—1950-51

Carl T. Woolsey...............................Resident Gynecologist
Arthur L. Haskins.............................Resident Obstetrician

Associate Residents

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

Assistant Residents

Donald W. Robinson
Dorothy T. Magallon
Seth E. Wissner
MacDonald Bonebrake

Interns

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

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

Paul J. Zentay

McMILLAN HOSPITAL

BOARD OF TRUSTEES OF McMILLAN HOSPITAL AND
OSCAR JOHNSON INSTITUTE

Dr. Frederick E. Woodruff..............................................President
Mrs. Royal D. Kercheval..............................................Vice-President
Mrs. Horton Watkins..............................................Secretary to the Board

Mrs. Henry Elliot
Mrs. James Lee Johnson
Mrs. Oscar Johnson
Mr. Ernest Stix
Mrs. Richard Baldwin
Mr. Henry Hitchcock

Mr. Wallace Renard
Mrs. Frank J. V. Krebs
Mrs. E. D. Nims
Mrs. Arthur Stockstrom
Dr. Martin Hayward Post
Mr. Howard I. Young

OPHTHALMOLOGY

Lawrence T. Post..............................................Ophthalmologist-in-Chief
William E. Shahan..............................................Associate Ophthalmologist Emeritus
M. Hayward Post.............................................. Associate Ophthalmologist
Assistant Ophthalmologists

F. E. Woodruff
Frederick O. Schwartz
Bennett Y. Alvis
William M. James
H. R. Hildreth
Carl C. Beisbarth
Adolph C. Lange
T. E. Sanders
William H. Meinberg
Benjamin Milder

Ruth Freedman
S. Albert Hanser
Philip Shahan
Daniel Bisno
E. B. Alvis
Harry Rosenbaum
James Bryan
Richard G. Scobee
Paul W. Miles
Harold Beasley

David Freeman

House Staff—1950-51

Residents
Richard L. Thomas (7-1 to 7-31-1950)
James H. Scruggs (8-1 to 12-31-1950)
Stanley M. Truhlsen (1-1 to 5-31-1951)

Assistant Residents
James H. Scruggs (7-1 to 7-31-1950)
Stanley M. Truhlsen (7-1 to 12-31-1950)
Justin L. Sleight

Arthur W. Stickle
John W. Sneed
John L. Power
Paul H. Ripple
Eugene T. Standley

Otolaryngology

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

Assistant Otolaryngologists

Millard Arbuckle
Harry W. Lyman
Arthur W. Proetz
Arthur M. Alden
French K. Hansel
James B. Costen
Allen Potter
Isaac D. Kelley
Alfred J. Cone
Robert Votaw
Harry N. Glick
Helen Gage

Fred W. Scherrrer
A. C. Stutsman
L. W. Dean, Jr.
H. M. Smit
Guerdan Hardy
William T. K. Bryan
Ben H. Senturia
Edward H. Lyman
Harold Cutler
Morris Davidson
Daniel Klaflf
Joseph Ogura
Fellow
Cesar Fernandez

House Staff—1950-51

Residents

Joseph W. West
Robert M. Hazen

Assistant Residents

Landon H. Gurnee
Jack L. Turner
Sadab Dhiraputra
Sanford C. Snyderman
Gumaro Serrano
Charles Watkins

CONSULTANTS IN PEDIATRICS TO OPHTHALMOLOGY AND
OTOLARYNGOLOGY

Alexis F. Hartmann
Borden S. Veeder
Jean Valjean Cooke
Adrien Bleyer
Helen M. Aff
Joseph A. Bauer
C. Read Boles (courtesy)
Martin Calodney (courtesy)
Dorothy Case
Max Deutch
Gilbert B. Forbes
David Goldring
Samuel Gollub
Leo Gowen (courtesy)
Gene Grabau (courtesy)
Norman Hankin (courtesy)
Stanley Harrison
Anne F. Hunter (courtesy)
Frederick A. Jacobs
Joseph C. Jaudon
Dorothy J. Jones
William Klingberg

Paul J. Zentay

KENNESAW COOPER (courtesy)
Marianne Kuttner
Harry Lawler (courtesy)
Sol Londe
Maurice J. Lonsway
John Martz (courtesy)
Herbert A. Mazur
(Dr. courtesy)
David McClure (courtesy)
Helen Nash (courtesy)
Miriam M. Pennoyer
(courtesy)
Edith Robinson
Edwin H. Rohlfing
Wayne A. Rupe
Alfred S. Schwartz
Bernard Swartzman
Don Thurston
Jean Holowach Thurston
Harry Ewing Wachter
Park J. White
Frank Wissmath (courtesy)

NEUROPSYCHIATRY

Edwin F. Gildea...........................................Psychiatrist-in-Chief
James L. O’Leary........................................Neurologist-in-Chief
Assistant Psychiatrists

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

Psychologist
Robert Watson

Assistant Psychologist
Ivan Mensh

Associate Neurologist
Irwin Levy

Assistant Neurologists
Andrew B. Jones
Archie D. Carr
Joseph Gitt

Voluntary Assistants
Frank O. Shobe
Warren B. Mills

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

House Staff—1950-51

Residents
Richard F. Schneider
(Psychiatry)
Robert M. Counts
(Psychiatry)
Kenneth D. Michael
(Psychiatry)
George Winokur
(Psychiatry)
Herbert E. Rosenbaum (Neurology)
THE SCHOOL OF MEDICINE

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

ST. LOUIS CHILDREN’S HOSPITAL

Officers of the Board of Managers
Mrs. Harry H. Langenberg .................................................. President
Mrs. Robert Brookings Smith ............................................ Vice-President
Mrs. Dalton K. Rose .......................................................... Vice-President
Mrs. Robert Holland ......................................................... Vice-President
Mrs. Henry B. Pfieger ....................................................... Recording Secretary
Miss Carlotta Glasgow ....................................................... Treasurer
Mrs. Daniel L. Schlafly ...................................................... Assistant Treasurer

Administration
Estelle D. Claiborne, F.A.C.H.A .......................................... Administrator
Kathleen Hayes, R.N ......................................................... Assistant Superintendent
Elizabeth O’Connell, R.N., B.S.M.S ........................................ Superintendent of Nurses
Marion Barnard, R.N ........................................................ Administrateur Assistant
Frances Livingston, R.N .................................................... Administrative Assistant

Pediatrics
Alexis F. Hartmann ......................................................... Physician-in-Chief
Borden S. Veeder ............................................................. Consulting Physician
Jean V. Cooke ................................................................. Associate Physician
Adrien Bleyer ................................................................. Associate Physician

Assistant Physicians
Helen M. Aff
Joseph A. Bauer
Max Deutch
Gilbert B. Forbes
Leo Gowen (courtesy)
Stanley L. Harrison
Wayne A. Rupe
Harry J. Lawler, (courtesy)
Sol Londe
Maurice J. Lonsway
David McClure (courtesy)
Edwin H. Rohlfing
Harry E. Wachter
Park J. White
Paul J. Zentay
Kenneth Koerner (courtesy)
William G. Klingberg
Alfred S. Schwartz
Bernard Schwartzman
Don Thurston
Frederick A. Jacobs
Joseph C. Jaudon
Dorothy J. Jones
Paul W. Kubitschek
Marianne Kuttner  
Samuel Gollub  
John C. Martz (courtesy)  
David Goldring  
Martin Calodney (courtesy)  
Gene Graubau (courtesy)  
Read Boles (courtesy)  
Frank Wissmath (courtesy)  

M. Remsen Behrer  

Chief Resident
M. Remsen Behrer

Assistant Residents

<table>
<thead>
<tr>
<th>George M. Ewing</th>
<th>Lawrence I. Kahn</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kenneth J. Fijan</td>
<td>Bruce H. Marshall</td>
</tr>
<tr>
<td>Robert H. Friedman</td>
<td>Floyd B. Merritt</td>
</tr>
<tr>
<td>William J. Gallagher, Jr.</td>
<td>J. Neal Middelkamp</td>
</tr>
<tr>
<td>Mary B. Gilliland</td>
<td>Stanley H. Schuman</td>
</tr>
</tbody>
</table>

Junior Residents

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

Evarts A. Graham

Surgeon-in-Chief

Associate Surgeons

<table>
<thead>
<tr>
<th>Vilray P. Blair</th>
<th>Peter Heinbecker</th>
</tr>
</thead>
<tbody>
<tr>
<td>James Barrett Brown</td>
<td>J. Albert Key</td>
</tr>
<tr>
<td>Glover H. Copher</td>
<td>Dalton K. Rose</td>
</tr>
<tr>
<td>Robert Elman</td>
<td>Henry G. Schwartz</td>
</tr>
</tbody>
</table>

Assistant Surgeons

<table>
<thead>
<tr>
<th>Duff S. Allen</th>
<th>Cyril J. Costello</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robert W. Bartlett</td>
<td>Clarence H. Crego, Jr.</td>
</tr>
<tr>
<td>Eugene Bricker</td>
<td>Rogers Deakin</td>
</tr>
<tr>
<td>Thomas Burford</td>
<td>Charles Eckert</td>
</tr>
<tr>
<td>Louis T. Byars</td>
<td>Arthur O. Fisher</td>
</tr>
</tbody>
</table>
THE SCHOOL OF MEDICINE

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

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

Voluntary Assistants

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

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

OTOLARYNGOLOGY

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

Assistant Otolaryngologists

Arthur M. Alden
Millard F. Arbuckle
William T. K. Bryan
Alfred J. Cone
James B. Costen
Harold Cutler
Lee Wallace Dean, Jr.
Helen Cagle
Harry N. Glick
French K. Hansel
Guerdan Hardy

I. Dee Kelley, Jr.
Edward H. Lyman
Allen B. Potter
Frederick W. Scherrer, Jr.
Ben H. Senturia
Herbert M. Smit
Albert C. Stutsman
Robert E. Votaw
Morris Davidson
Daniel Klaff
Joseph H. Ogura

OPHTHALMOLOGY

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

Bennett Y. Alvis
Edmund B. Alvis
Carl C. Beisbarth
James H. Bryan
H. Rommel Hildreth
William M. James
Adolph C. Lange
William H. Meinberg, Jr.

Harold Beasley

DENTISTRY

O. W. Brandhorst..........................Dentist-in-Chief
B. E. Lischer...............................Dentist Emeritus

Assistant Dentists

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

DERMATOLOGY

Richard S. Weiss...........................Dermatologist-in-Chief
Martin F. Engman..........................Dermatologist Emeritus

Assistant Dermatologists

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

GYNECOLOGY

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

Assistant Gynecologists

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

Ralph B. Woolf
THE SCHOOL OF MEDICINE

NEUROPSYCHIATRY

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

Associate Neurologist
Irwin Levy

Assistant Neurologists

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

Assistant Psychiatrists

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

Robert J. Mueller

Consultant in Psychiatry (Psychology)
Robert I. Watson

PATHOLOGY

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

Assistant Pathologists

Gustave Dammin
Frank Dixon
Zola Cooper
Edward B. Smith

Surgical Pathology
Lauren V. Ackerman

RADIOLOGY

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

Associate Radiologists

A. Norman Arneson
Wendell G. Scott

Assistant Radiologists

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

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

SPECIAL DEPARTMENTS

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

SOCIAL SERVICE DEPARTMENT OF WASHINGTON UNIVERSITY CLINICS AND ALLIED HOSPITALS

EXECUTIVE COMMITTEE OF THE BOARD OF MANAGERS

Mrs. Robert A. Holland ........................................ President
Mrs. H. Rommel Hildreth ................................ Vice-President
Mrs. Wylie Todd ............................................... Treasurer
Mrs. John Langenberg .................................. Representative to Agency Personnel
Practices Committee
Mrs. Pelham Turner ........................................ Secretary
Miss Mary L. Hemmy ........................................ Director
Miss Mary Lewis .............................................. Case Supervisor
Mrs. Jean Yemm ............................................... Case Supervisor

WASHINGTON UNIVERSITY CLINICS

Outpatient Departments of Barnes, the St. Louis Children’s, the St. Louis Maternity and the McMillan Hospitals

BOARD OF MANAGERS

Mr. Forest P. Tralles ............................................ Chairman
Frank R. Bradley, M.D ...................................... Director
Harry E. Panhorst ........................................... Associate Director

Mr. Daniel K. Catlin ........................................ Mr. E. E. Pershall
Mr. Wilson L. Hemingway ................................ Mr. Forest P. Tralles
Mrs. Hugh McKittrick Jones ................................ Mr. Harry B. Wallace
Mrs. Harry H. Langenberg ................................. Dr. Frederick E. Woodruff
THE SCHOOL OF MEDICINE

MEDICAL CLINICS

W. Barry Wood, Jr. ...................................................... Physician-in-Chief

GENERAL MEDICAL DIVISION

Assistant Physicians

Arthur C. Brooks ...................................................... Chief of Clinic

Louis F. Aitken ....................................................... Bruce D. Kenamore
Sim F. Beam .......................................................... Esben Kirk
William G. Becke .................................................... Melvin B. Kirstein
Leon Bromberg ......................................................... Robert E. Koch*
Harold A. Bulger ...................................................... Karl F. Koenig
Edward W. Cannady .................................................. Lawrence M. Kotner*
Benjamin H. Charles ................................................. William B. Kountz
Cecil M. Charles ..................................................... John V. Lawrence
Jerome E. Cook ........................................................ Hiram S. Liggett
Truman G. Drake .................................................... Warren Lonergan*
Norman W. Drey* ..................................................... Edward Massie
Charles W. Duden ................................................... Arnold S. Moe*
Joseph C. Edwards .................................................. Joseph Noah
Robert W. Elliott .................................................... Henry W. Noller*
Julius Elson ........................................................... Llewellyn Sale, Sr.
Alfred Fleishman ..................................................... Samuel E. Schechter*
B. Y. Glassberg ....................................................... Harold Scheff
Alfred Goldman ....................................................... Burton A. Shatz*
Samuel B. Grant ..................................................... David M. Skilling, Jr.
Kendall D. Gregory* ................................................ Milton Smith
Paul O. Hagemann .................................................... Robert M. Smith
Stanley F. Hampton .................................................. Arthur E. Strauss
Lee B. Harrison ....................................................... C. Malone Stroud
Raymond F. Holden, Jr. ............................................. Lawrence D. Thompson
John Horner ........................................................... George X. Trimble
Bernard Hulbert* .................................................... John H. Wedig
J. Ted Jean ............................................................ Harry W. Wiese
Robert W. Kelley .................................................... Ray D. Williams

Keith S. Wilson

Fellows

John R. Beem ......................................................... Ralph V. Gieselman
Angelo Creticos ..................................................... William J. Harrington
Arnold Dankner ...................................................... J. W. Hollingsworth
Albert Eisenstein .................................................. Robert Jim
A. Lewis Farr ........................................................ John I. Mathews
Thomas J. Fitzpatrick .............................................. John D. Morrow

* Voluntary assistant.
ALLERGY CLINIC

Assistant Physicians

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

Fellow
Arnold Danker

ARTHRITEIS CLINIC

Assistant Physicians

Paul O. Hagemann ................................................. Chief of Clinic
Bernard Hulbert*
Robert C. Kingsland

Fellows

CARDIOVASCULAR CLINIC

Assistant Physicians

Edward Massie ...................................................... Chief of Clinic
Robert J. Glaser
Drew W. Luten

John R. Smith

CHEST

Assistant Physicians

Alfred Goldman ..................................................... Chief of Clinic
Anthony B. Day
Axel R. Gronau*

Dermatologists-in-Chief

Assistant Dermatologists

James W. Bagby
William G. Coleman
Adolph H. Conrad, Jr.
Adolph H. Conrad, Sr.

Richard S. Weiss .................................................. Chief of Clinic

Calvin C. Ellis*
Martin F. Engman, Jr.
Irwin H. Eskeles
Lawrence K. Halpern*

* Voluntary assistant.
THE SCHOOL OF MEDICINE

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

Fellows

Seth Barnes
W. Smoot Carter

DIABETIC AND ENDOCRINE CLINIC

Assistant Physicians

Cyril M. MacBryde...............................Chief of Clinic
Harold A. Bulger
William H. Daughaday
Truman G. Drake
Harold Freedman*
B. Y. Glassberg

Fellow

A. Lewis Farr

GASTROINTESTINAL CLINIC

Assistant Physicians

Bruce D. Kenamore...............................Chief of Clinic
Alfred Fleishman
John Horner
Robert W. Kelley
Warren Lonergan*

Burton A. Shatz*

Fellows

Ralph V. Gieselman

HEMATOLOGY CLINIC

Associate Physician

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

Assistant Physicians

Robert Lange*

William J. Harrington

Fellows

Virgil Loeb, Jr.

* Voluntary assistant.
LIVER CLINIC

Associate Physician
Robert E. Shank

Chief of Clinic

Assistant Physicians
Gustave J. Dammin
Albert I. Mendeloff

Fellow
Albert Eisenstein

PSYCHOSOMATIC (MEDICINE D) CLINIC

Assistant Physician
George Saslow

Chief of Clinic

VENEREAL DISEASE CLINIC

Assistant Physicians
Virgil Scott

Chief of Clinic
Richard Maxwell
Harold K. Roberts
E. B. Williams*

OBSTETRICS AND GYNECOLOGY CLINIC

Willard M. Allen
Obstetrician and Gynecologist-in-Chief

Associate Obstetricians and Gynecologists
A. Norman Arneson
Frank P. McNalley
William H. Masters
Melvin A. Roblee
Samuel D. Soule

Assistant Obstetricians and Gynecologists
Hubert L. Allen
Milton H. Meyerhardt
William Berman
Seymour Monat
Bryce H. Bondurant
James Pennoyer
Arthur R. Bortnick
David Rothman
Arthur T. Esslinger
Frances H. Stewart
Charles R. Gulick
Willard C. Scrivner
Herman Hutto
Helman C. Wasserman
Paul F. Max
Ralph B. Woolf

* Voluntary assistant.
THE SCHOOL OF MEDICINE

SURGERY CLINIC

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

SURGERY

Assistant Surgeons

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

Henry S. Brookes
J. Barrett Brown—Plastic
Arthur R. Dalton
Charles Eckert
Virgil O. Fish
Minot P. Fryer—Plastic
Leonard T. Furlow—Neuro

Heinz Haffner
Fred Klinge
Carl E. Lischer
Frank McDowell—Plastic
George E. Roulhac—Neuro
Sam Schneider
Henry G. Schwartz—Neuro

Henry Schwarz, II

UROLOGY

Assistant Surgeons

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

Morris Abrams
Lawrence M. Aronberg
J. Byron Beare
Justin Cordonnier
Harry Cutler
Rogers Deakin

Andy Hall, Jr.
Jules H. Kopp
John Patton
Robert K. Royce
Carl Wattenberg
William H. West

ORTHOPEDIC

Assistant Surgeons

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

Vilray P. Blair, Jr.
Lee T. Ford, Jr.
Leon Fox
Oscar Hampton
Edward C. Holscher

Frederick A. Jostes
Stanley M. Leydig
Richard Odell
Fred Reynolds
Maurice B. Roche

OPHTHALMOLOGY CLINIC

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

Assistant Ophthalmologists

Bennett Y. Alvis
Edmund B. Alvis
Harold Beasley

Carl C. Beisbarth
Daniel Bisno
James Bryan
Ruth Freedman
David Freeman, Chief of Clinic
S. Albert Hanser
H. Rommel Hildreth
William M. James
Adolph C. Lange
Benjamin Milder

Paul W. Miles
M. H. Post
Harry Rosenbaum
T. E. Sanders
Frederick O. Schwartz
Richard G. Scobee
Philip Shahan
William E. Shahan

F. E. Woodruff

OTOLARYNGOLOGY CLINIC
Theodore E. Walsh........................................Otolaryngologist-in-Chief

Assistant Otolaryngologists

Alfred J. Cone
James B. Costen
L. W. Dean, Jr.

Ben Senturia

PEDIATRIC CLINIC
Alexis F. Hartmann........................................Physician-in-Chief

Assistant Physicians

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

Helen M. Aff
Joseph A. Bauer
C. Read Boles
Martin M. Calodney
Dorothy M. Case
Max Deutch
Gilbert B. Forbes
David Goldring
Samuel Gollub
Leo F. Gowen
Norman Hankin
Stanley L. Harrison

Frederick A. Jacobs
William G. Klingberg
Kenneth A. Koerner
Maurice J. Lonsway
John C. Martz
Herbert A. Mazur
David M. McClure
Bernard Schwartzman
Don L. Thurston
Jean Holowach Thurston
H. Ewing Wachter
Frank S. Wissmath

Paul J. Zentay
NEUROPSYCHIATRIC CLINIC

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

NEUROPSYCHIATRY

Assistant Psychiatrists

Alfred K. Baur
Robert Bell
Margaret C-L. Gildea
Alex H. Kaplan
Sydney B. Maughs, Chief of Clinic

Edwin F. Price, Jr.
William J. Robinson
Frank O. Shobe
Conrad Sommer
Samuel R. Warson
George A. Ulett

Fellows

Arthur H. Chapman
Edmund V. Cowdry, Jr.
Wells Goodrich
Gregory C. Gressel
Samuel B. Guze
Wanda Lamb

Kenneth D. Michael
Ann D. Peters
Eli Robins
Shirley J. Schaffer
Philip H. Starr
George Winokur

VETERANS MENTAL HYGIENE

Assistant Psychiatrists

Robert M. Bell
Edward H. Kowert
Sydney B. Maughs

Hans B. Molholm
Jackson C. Neavles
Samuel R. Warson

Neurology

James L. O'Leary...........................................Neurologist-in-Chief

Assistant Neurologists

Robert D. Brookes
Robert J. Mueller

Andrew B. Jones
Samuel A. Trufant III

Psychology

Robert I. Watson...........................................Psychologist

Assistant Psychologists

Bettye M. Caldwell
Evelyn P. Mason

James O. Palmer
THE ST. LOUIS CITY HOSPITALS

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

ADMINISTRATIVE STAFF FOR THE CITY OF ST. LOUIS

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

CITY HOSPITAL (MAX STARKLOFF MEMORIAL)

UNIT I—MEDICINE

Barrett Taussig...............................................Section Head

Visiting Physicians

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

Robert J. Glaser

Consultants

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

Visiting Physicians

James Bagby  Eugene Weber

Consultant

Clinton W. Lane

Neurology

James L. O'Leary  Section Head

Consultants

Joseph Gitt  A. B. Jones
Robert Mueller  (Isolation Division)

Psychiatry

Edwin F. Gildea  Section Head

Visiting Psychiatrists

Edward H. Kowert  Jackson C. Neavles

Obstetrics and Gynecology

Otto H. Schwarz  Section Head

Visiting Obstetricians and Gynecologists

Arthur T. Esslinger  David Rothman
William D. Hawker  Charles Gulick
James Pennoyer

Consultants

Willard M. Allen  Seymour Monat (Nurses Health Service)
Otto H. Schwarz  Carl R. Wegner (Toxemias of Pregnancy)

Ophthalmology

Daniel Bisno  Section Head
Visiting Surgeon
Benjamin Milder

Consultant
Lawrence T. Post

Otolaryngology
William T. K. Bryan.............................................Section Head

Visiting Surgeons
Robert E. Votaw Joseph H. Ogura

Consultant
Theodore E. Walsh

Pediatrics
Visiting Physicians
Donald Thurston William Gene Klingberg

Consultants
Alexis F. Hartmann Jean V. Cooke
Gilbert B. Forbes

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

General Surgery
Eugene M. Bricker.............................................Section Head

Visiting Surgeons
Cyril J. Costello Heinz Haffner
Charles Eckert Carl E. Lischer
Franklin E. Walton

Teaching
Morton Pareira

Consultant
Peter Heinbecker

Orthopedic Surgery
Edward Holscher.............................................Section Head
Visiting Surgeons

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

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

Alex Harell

Consultant
J. Albert Key

UROLOGY

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

Visiting Surgeons

Jules H. Kopp

J. Byron Beare

Consultant
Dalton K. Rose

NEUROSURGERY

Visiting Surgeon
George E. Roulhac

Consultant
Henry G. Schwartz

THORACIC SURGERY

Visiting Surgeon
Thomas Burford

Consultant
Evarts A. Graham

PLASTIC SURGERY

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

Visiting Surgeon
Minot P. Fryer
**BULLETIN OF WASHINGTON UNIVERSITY**

**HOMER G. PHILLIPS HOSPITAL**

**MEDICINE**

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

*Visiting Physicians*

<table>
<thead>
<tr>
<th>Name</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robert Paine</td>
<td></td>
</tr>
<tr>
<td>Warren Lonergan</td>
<td></td>
</tr>
</tbody>
</table>

*Consultants*

<table>
<thead>
<tr>
<th>Name</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keith S. Wilson</td>
<td>Allergy</td>
</tr>
<tr>
<td>Paul O. Hagemann</td>
<td>Arthritis</td>
</tr>
<tr>
<td>Robert Paine</td>
<td>Cardiology</td>
</tr>
<tr>
<td>Alfred Goldman</td>
<td>Chest Diseases</td>
</tr>
<tr>
<td>Irwin H. Eskeles</td>
<td>Dermatology</td>
</tr>
<tr>
<td>Burton A. Shatz</td>
<td>Gastroenterology</td>
</tr>
<tr>
<td>John C. Tinsley</td>
<td>Hematology</td>
</tr>
<tr>
<td>Carl G. Harford</td>
<td>Infectious Diseases</td>
</tr>
<tr>
<td>Ray D. Williams</td>
<td>Metabolism</td>
</tr>
<tr>
<td>Melvin Goldman</td>
<td>Hypertension</td>
</tr>
</tbody>
</table>

**NEUROLOGY AND PSYCHIATRY**

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

*Consultant*

H. H. Fingert (Psychiatry)

**OBSTETRICS AND GYNECOLOGY**

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

*Visiting Obstetricians and Gynecologists*

<table>
<thead>
<tr>
<th>Name</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arthur R. Bortnick</td>
<td></td>
</tr>
<tr>
<td>Helman C. Wasserman</td>
<td></td>
</tr>
<tr>
<td>George J. L. Wulff, Jr.</td>
<td></td>
</tr>
</tbody>
</table>

*Consultants*

<table>
<thead>
<tr>
<th>Name</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Willard M. Allen</td>
<td></td>
</tr>
<tr>
<td>T. K. Brown</td>
<td></td>
</tr>
<tr>
<td>Otto H. Schwarz</td>
<td></td>
</tr>
<tr>
<td>Carl R. Wegner (Toxemias of Pregnancy)</td>
<td></td>
</tr>
</tbody>
</table>

**OPHTHALMOLOGY**

*Visiting Surgeons*

<table>
<thead>
<tr>
<th>Name</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>E. B. Alvis</td>
<td></td>
</tr>
<tr>
<td>James Bryan</td>
<td></td>
</tr>
<tr>
<td>Ruth Freedman</td>
<td></td>
</tr>
<tr>
<td>S. Albert Hanser</td>
<td></td>
</tr>
<tr>
<td>Benjamin Milder</td>
<td></td>
</tr>
<tr>
<td>Paul W. Miles</td>
<td></td>
</tr>
</tbody>
</table>
THE SCHOOL OF MEDICINE

Lawrence T. Post
M. Hayward Post
Harry Rosenbaum

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

OTOLARYNGOLOGY

Lee W. Dean ........................................................................................................... Section Head
Visiting Surgeon
Morris Davidson
Consultant
Theodore E. Walsh

PEDIATRICS

Park J. White ............................................................................................................. Section Head
Visiting Physicians
E. Ewing Wachter
Gene Grabau
Harry J. Lawler
Consultant
Alexis F. Hartmann

SURGERY

Robert Elman .......................................................................................................... Section Head
Visiting Surgeons
Henry S. Brookes
Virgil O. Fish
Carl Heifetz
J. G. Probstein
Leo A. Sachar
Sam Schneider
Dominic J. Verda
Morris Abrams
Thomas H. Burford
Minot P. Fryer
Frank McDowell
Sedgwick Mead
(Thoracic Surgery)
(Plastic Surgery)
(Plastic Surgery)
(Physical Therapy)

Consultant
Evarts A. Graham

NEUROLOGICAL SURGERY

Henry G. Schwartz .................................................................................................. Section Head
Visiting Surgeon
George Roulhac
ORTHOPEDIC SURGERY

Visiting Surgeons

Leon Fox
Lee T. Ford
James O. Lottes

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

Alex Harell
Consultant
J. Albert Key

UROLOGY

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

Visiting Surgeon
Harry Cutler

Consultant
Dalton K. Rose

PATHOLOGY

Consultant
Lauren Ackerman

MALCOLM A. BLISS PSYCHOPATHIC HOSPITAL

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

Consultants

Joseph Gitt...........................................Psychiatry
Robert D. Brookes..................................Psychiatry

Visiting Physician

William J. Robinson................................Psychiatry
Edward H. Kowert................................Psychiatry
Jackson C. Neavles.................................Psychiatry
HISTORICAL STATEMENT

THE SCHOOL OF MEDICINE

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

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

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

In 1910 an extensive reorganization and development of the school was undertaken under the inspired leadership of Robert Somers Brookings, President of the Corporation. With the aid of funds contributed by Mr. Brookings and other philanthropic citizens of St. Louis, and with full cooperation of the faculty of the school, new heads and staffs were appointed in all major departments, to devote themselves wholly to teaching and research. Associated clinical teachers were chosen from the medical profession of St. Louis. Affiliations were entered into with the trustees of the Barnes Hospital Bequest and with the St. Louis Children's Hospital, looking toward the erection of a new medical center that would provide in one closely coordinated plant superior
facilities for the treatment of patients, for teaching of medical students, and for experimental and clinical investigation in every branch of medical science. An executive faculty was established, composed of the heads of departments, to plan the new organization of the school and to direct its conduct. During the planning and erection of the new laboratory and hospital buildings, the reorganized school continued to occupy the building on Locust Street and the University Hospital and Dispensary on Jefferson Avenue.

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

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

**THE MEDICAL SCHOOL BUILDINGS**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

LIBRARY

The Library contains (October 1, 1949) 69,901 bound volumes and receives 821 medical periodicals, selected with reference to the needs of students and investigators.

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

The Library is open week days from 8:30 a.m. to 10:00 p.m.
Other libraries in St. Louis containing literature relating to medicine are available to students.

LECTURESHIPS

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

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

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

ENTRANCE REQUIREMENTS

The qualifications required for admission to the study of medicine in this School are of two sorts; suitable personal qualities as to character, attitude, and interest; and evidence of intellectual ability and achievement, indicated by the satisfactory performance of certain scholastic work.
Completion of at least three years of college courses will be expected before beginning the study of medicine.

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

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

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

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

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

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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Required Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>6 semester hours</td>
</tr>
<tr>
<td>Chemistry</td>
<td>15 semester hours including quantitative analysis and 4 hours of organic</td>
</tr>
<tr>
<td>Physics</td>
<td>8 semester hours</td>
</tr>
<tr>
<td>Biology</td>
<td>8 semester hours, at least 4 hours of which must be in Zoology</td>
</tr>
</tbody>
</table>

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

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

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

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

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

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

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

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

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

Preliminary application blanks will be furnished upon request. After supplying all information called for therein, the applicant should return the blank to the Registrar. If the applicant is approved for a full application he should upon receipt of this blank request his college to send directly to the Registrar complete official transcripts of high school and college credits. To aid in judging the fitness of an applicant, the student’s science instructors should be requested by him to send personal letters to the Dean, giving estimates of the student’s ability, character, and personality.

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

ADMISSION TO ADVANCED STANDING

Applicants for advanced standing will be considered only if there are vacancies in the classes. Applications should be filed early. Only students who have unconditional standing in the medical schools from which they seek to be accredited are considered for admission to advanced classes. Within ten days after notification of acceptance, successful applicants are required to send to the Registrar a deposit of fifty dollars, to be applied toward the first payment of tuition. The deposit is not returnable.
An applicant for advanced standing (1) must furnish evidence that the requirements for admission to the first year have been fulfilled; (2) must have studied as a matriculated medical student in an acceptable medical school for a period of time at least equal to that already spent by the class to which he seeks admission; (3) must show that courses equivalent in kind and amount to those given in this School, in the year or years preceding that to which admission is desired, have been satisfactorily completed; and (4) in doubtful cases may be required to pass an examination in any of the subjects for which credit is sought.

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

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

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

ADMISSION OF GRADUATES IN MEDICINE

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

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

STANDING AND PROMOTION

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

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

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

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

Major Subjects.

First year: Morphology, Neurology, Biochemistry, Physiology.
Second Year: Bacteriology, Pathology, Pharmacology, Medicine, Surgery (1/2).
Third Year: Medicine, Neuropsychiatry, Obstetrics and Gynecology, Surgery, Preventive Medicine.
Fourth Year: Medicine, Obstetrics and Gynecology, Pediatrics, Surgery, Ophthalmology (1/2), Otolaryngology (1/2).

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

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

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

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

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

REQUIREMENTS FOR DEGREES

DOCTOR OF MEDICINE

Candidates must be more than twenty-one years of age and of good moral character. They must have attended not less than four courses of instruction as matriculated medical students, the last of which has been in this School. They must have passed all required courses, or their equivalent, and have received satisfactory grades in the work of the entire four classes. They must have discharged all current indebtedness to the University.

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

BACHELOR OF SCIENCE IN MEDICAL SCIENCE

A student who enters the School of Medicine with a minimum of ninety semester hours of work may become a candidate during the medical course for the degree of Bachelor of Science in Medical Science,
provided the quality of work done in required courses is satisfactory. Acceptance as candidates for this degree is granted not earlier than after completion of the courses of the first year. Requirements for the degree are the satisfactory conduct of research in the medical sciences and the preparation of an acceptable thesis, which must be presented to the head of the department concerned at least one month before the degree is to be awarded. Compliance with the requirements for this degree will not usually be attained before the end of the third or fourth academic year. This degree is not available to students entering the School of Medicine after September, 1948.

BACHELOR OF ARTS (COMBINED PROGRAM)

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

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

INTERN APPOINTMENTS

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

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

PRIZES

GEORGE F. GILL PRIZES:

1. One prize of fifty dollars is awarded at the end of the first year to the member of the class who has demonstrated superior scholarship in anatomical work.

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

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

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

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

THE BIOCHEMISTRY PRIZE is awarded at the end of the first year to the member of the class who has demonstrated superior scholarship in biochemical work.

THE PRIZE FUND OF THE MEDICAL FUND SOCIETY:

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

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

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

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

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

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

**Fellowships and Scholarships**

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

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

<table>
<thead>
<tr>
<th>Western</th>
<th>Rocky Mountain</th>
<th>North Central</th>
</tr>
</thead>
<tbody>
<tr>
<td>California</td>
<td>Arizona</td>
<td>Illinois</td>
</tr>
<tr>
<td>Nevada</td>
<td>Colorado</td>
<td>Iowa</td>
</tr>
<tr>
<td>Oregon</td>
<td>Idaho</td>
<td>Kansas</td>
</tr>
<tr>
<td>Washington</td>
<td>Montana</td>
<td>Minnesota</td>
</tr>
<tr>
<td>Alaska</td>
<td>New Mexico</td>
<td>Missouri</td>
</tr>
<tr>
<td>Pacific Islands</td>
<td>Utah</td>
<td>Nebraska</td>
</tr>
<tr>
<td></td>
<td>Wyoming</td>
<td>North Dakota</td>
</tr>
<tr>
<td></td>
<td></td>
<td>South Dakota</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wisconsin</td>
</tr>
</tbody>
</table>
### South Central
- Alabama
- Arkansas
- Kentucky
- Louisiana
- Mississippi
- Oklahoma
- Tennessee
- Texas
- Canal Zone

### Southeastern
- Delaware
- Florida
- Georgia
- Maryland
- North Carolina
- South Carolina
- Virginia
- West Virginia
- Washington, D. C.
- Puerto Rico
- Virgin Islands

### Northeastern
- Indiana
- Michigan
- New Jersey
- New York
- Ohio
- Pennsylvania
- New England
  - Connecticut
  - Maine
  - Massachusetts
  - New Hampshire
  - Rhode Island
  - Vermont

---

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

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

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

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

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

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

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

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

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

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

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

The **Jackson Johnson Research Fellowships** have been established to make it possible for certain students to obtain a year of experience in medical research and to explore their aptitude and interests in research at a time not too far removed from the completion of fundamental college courses in chemistry, physics, and mathematics, or from basic preclinical studies. Any student in the Washington University School of Medicine who has completed the sophomore year is eligible for such a fellowship, which ordinarily provides a stipend of $1,600 or, if there are dependents $2,000. Funds are provided for tuition fees if courses are taken in connection with these fellowships. Ordinarily it is expected that the work will be conducted at Washington University, but exceptions may be made. It is anticipated that the fellowships will be taken at the end of the second year, by withdrawing for one year from the medical school, with readmission assured at the end of the year.
Emergency loans in limited amounts are available from the Jackson Johnson Fund for students in the upper three classes of the School, when needed to meet unexpected emergencies during the academic year. The loans are granted by the Chancellor on the recommendation of the Dean.

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

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

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

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

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

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

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

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

Andrew Rankin Fleming and Susie Fleming Fund. Through the bequest of the late Mrs. Susie Fleming, $150 from the income of this Fund is available annually for scholarships for worthy and needy students in the School of Medicine.
THE ALINE RIXMAN LOAN FUND. Provided through the gift of Mr. William Rixman the fund is used to alleviate unexpected financial emergencies that arise among medical students during the academic year. The fund is available to any student who in the judgment of the Dean gives promise of becoming a competent physician. It is expected that loans will be repaid within a reasonable time after the student has finished his training. The loans are granted by the Chancellor on the recommendation of the Dean.

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

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

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

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

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

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

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

Registration for the first half year, 1950-51, is scheduled for Wednesday, September 6 (new students) and Saturday morning, September 9 (former students); for the second half year, Monday, January 29, 1951. Previously matriculated students who fail to register on any of the days set aside for that purpose will be charged a fee of $3.00.

FEES AND EXPENSES

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

All fees and charges are payable in advance at the office of the Treasurer in Robert S. Brookings Hall, or at the office of the Registrar of the School of Medicine.

Checks should be made payable to Washington University.

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

TUITION FEE. For undergraduate students the tuition fee is $764.00, payable in two equal installments, at the beginning of the first and second semesters.

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

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

MICROSCOPE AND DIAGNOSTIC INSTRUMENTS

Each student entering the freshman class is required to possess a standard microscope equipped with a substage light. All students are required to provide themselves with stethoscopes, ophthalmoscopes,
otoscopes, hemocytometers, percussion hammers, tape measures, 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.

WITHDRAWALS AND REFUNDS

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

ESTIMATE OF EXPENSES

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

Tuition ...............................................................$764.00
Matriculation Fee (payable once) .................................. 5.00
Health Service Fee .................................................. 36.00
Books and Instruments ...............................................$ 75.00 to 150.00
Room and Board (from $15.00 to $20.00 a week) ............. 540.00 to 720.00

$1415 to $1675.00

MEN'S DORMITORY OF THE SCHOOL OF MEDICINE

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

The rental of a room is $75.00 per semester, payable in advance, at registration. Reservations are accepted only for the full academic year. Application for reservation should be made to the Registrar and must be accompanied by a reservation fee of $10.00. This fee will be returned should the room not be assigned. If a room is assigned, the fee will be held by the University as a bond against possible damage to the room or furniture. Subject to such claim it will be refunded at the end of the academic year.
GENERAL PLAN OF INSTRUCTION

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

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

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

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

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

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

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

The academic term of thirty-six weeks for each of the four courses is divided into three trimesters of twelve weeks. The program is an intensive one, and demands the full time and best efforts of students. They are discouraged from attempting outside work or employment during the sessions.
TEACHING AND RESEARCH DIVISIONS

Courses of Instruction

SECOND YEAR

CONJOINT MEDICINE

The several courses given by the clinical departments during the sophomore year have been placed under the supervision of a Committee on Conjoint Medicine in order that teaching might be coordinated effectively. Even though individual courses are listed in the catalogue under departmental headings, representatives of several departments participate in the presentation of material. For instance, clinical diagnosis (see under Medicine) is taught jointly by the Departments of Medicine, Neuropsychiatry, Obstetrics and Gynecology, Ophthalmology, Otolaryngology, Pediatrics and Surgery. The number of hours allotted to each department in the conjoint courses is included in the listing of courses under the respective departmental headings. The following courses are included in this arrangement:

- Medicine: Clinical Diagnosis
  - Applied Pathologic Physiology
  - Laboratory Methods of Diagnosis

- Neuropsychiatry: Introductory Course on the Patient-Physician Relationship
  - Neurological Examination in Clinical Diagnosis

- Obstetrics and Gynecology: Introduction to Obstetrics

- Ophthalmology: Introduction to Ophthalmology

- Otolaryngology and Clinical Diagnosis

- Pediatrics: Introduction to Pediatrics

- Surgery: Introduction to Surgery

COMMITTEE IN CHARGE

Carl V. Moore .......................................................... Chairman
William H. Masters Richard G. Scobee George Saslow
Gilbert Forbes Joseph H. Ogura Peter Heinbecker
DEPARTMENTS OF THE SCHOOL

ANATOMY

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

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

FIRST YEAR

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

(Drs. Trotter, Charles)

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

(Drs. Lansing, Kuff)
12 (507). Neurology. A laboratory course in gross and microscopic anatomy and in physiology of the nervous system. 168 hours.  
(Drs. Bishop, O'Leary, Gilson, Schoepfle)

ELECTIVE COURSES

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

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

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

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

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

Jacques J. Bronfenbrenner, Ph.D.
Professor of Bacteriology and Immunology

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

I. L. Shechmeister
Assistant Professor of Bacteriology and Immunology

Hiromu Tsuchiya, Sc.D.
Assistant Professor of Parasitology

Philip L. Varney, M.S., Ph.D.
Assistant Professor of Bacteriology and Immunology

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

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

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

SECOND YEAR

20 (531). BACTERIOLOGY. Lectures and laboratory. A brief survey of General Bacteriology with a view of acquainting the students with the role of bacteria in the economy of nature and with methods of pure culture study. Special emphasis is placed on such aspects in the mutual relation between the bacteria and their environment which would bring out those basic characteristics of metabolic requirements and activities of bacteria which on the one hand may serve to identify the individual species and on the other to explain some of the effects of bacterial invasion. After a brief consideration of the mechanisms governing the mutually limiting relation of the resistance of the host and the invasiveness of the parasite, a number of more important communicable diseases, caused by viruses, bacteria, fungi, protozoa and metazoa, are studied individually with respect to epidemiology, means of laboratory diagnosis, specific therapy and prophylaxis, and general measures of control. 165 hours.

(Drs. Bronfenbrenner, Tsuchiya, Varney, Ajl)

21 (532). INFECTION AND IMMUNITY. Consideration of the theories concerning the mechanism of immunologic reactions, both those occurring in vivo as well as those utilized for serologic procedures of diagnosis in vitro. Antigens, specific prophylaxis. Antibodies, their nature, significance in resistance to infection and as indices of past exposure.

1 Effective September 1, 1950.
Serum therapy. Hypersensitiveness. Two lectures and six hours of laboratory work each week during half of the first trimester. 44 hours. (Drs. Bronfenbrenner, Varney, Ajl)

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

Elective Course

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

Carl F. Cori, M.D. ...................................... Professor of Biological Chemistry
Gerty T. Cori, M.D. ...................................... Professor of Biological Chemistry
Maurice E. Krahl, Ph.D. .............................. Associate Professor of Biological Chemistry
Paul W. Preisler, Ph.D. ................................. Assistant Professor of Biological Chemistry
Ethel Ronzoni-Bishop, Ph.D. .......................... Assistant Professor of Biological Chemistry in Neuropsychiatry
Earl Sutherland, M.D. ................................. Assistant Professor of Biological Chemistry
John F. Taylor, Ph.D. .................................. Assistant Professor of Biological Chemistry
Sidney F. Velick, Ph.D. ................................. Assistant Professor of Biological Chemistry
Mildred Cohn Primakoff, Ph.D. ....................... Research Associate in Biological Chemistry
David H. Brown, Ph.D. ............................... Instructor in Biological Chemistry
Robert Cowgill, Ph.D. ................................ Instructor in Biological Chemistry
Robert K. Crane, Ph.D. ................................ Instructor in Biological Chemistry
Graham T. Webster, M.D. ............................. Instructor in Biological Chemistry
Robert Loeffel, B.S. .................................. Research Assistant in Biological Chemistry
David H. Brown, Ph.D. ............................... Merck Postdoctoral Fellow in Biological Chemistry
Joseph Larner, M.D. .................................. National Institute of Health and Life Insurance Medical Research Fellow in Biological Chemistry

FIRST YEAR

10 (503). BIOLOGICAL CHEMISTRY. Lectures, recitations, conferences and laboratory work covering those portions of the subject which are of especial importance to the student of medicine. 336 hours.

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

ELECTIVE COURSES

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

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

1 On leave of absence, effective September 1, 1950.
2 October 1, 1950, to June 30, 1951.
3 July 1 to September 30, 1950.
THE JOHN T. MILLIKEN DEPARTMENT OF MEDICINE
(The Department of Medicine includes Internal Medicine and Dermatology)

William Barry Wood, Jr., M.D. .................Busch Professor of Medicine
Carl V. Moore, M.D. ..................................Professor of Medicine
Robert E. Shank, M.D. .........................Professor of Preventive Medicine
Harry L. Alexander, M.D. .....................Professor of Clinical Medicine
Warren P. Elmer, M.D. ........................Associate Professor Emeritus of Clinical Medicine

Walter Fischel, M.D. ..........................Associate Professor Emeritus of Clinical Medicine
Drew W. Luten, M.D. ..........................Associate Professor Emeritus of Clinical Medicine
Llewellyn Sale, M.D. ..........................Associate Professor Emeritus of Clinical Medicine

Gustave Dammin, M.D. ..........................Associate Professor of Medicine
Alfred Goldman, M.D. ..........................Associate Professor of Clinical Medicine
Carl G. Harford, M.D. ..........................Associate Professor of Medicine
John Esben Kirk, M.D. ..........................Associate Professor of Medicine
Joseph W. Larimore, M.D. .....................Associate Professor of Clinical Medicine
Cyril M. MacBryde, M.D. ......................Associate Professor of Clinical Medicine
William H. Olmsted, M.D. ....................Associate Professor of Clinical Medicine
Edward Reinhard, M.D. ........................Associate Professor of Medicine
George Saslow, M.D. ..........................Associate Professor of Psychiatry
Henry A. Schroeder, M.D. ......................Associate Professor of Medicine
John R. Smith, M.D. ..........................Associate Professor of Medicine
Leon Bromberg, M.D. ..........................Assistant Professor of Clinical Medicine
Arthur C. Brooks, M.D. ........................Assistant Professor of Clinical Medicine
Samuel C. Bukantz, M.D. .......................Assistant Professor of Medicine
Harold A. Bulger, M.D. ........................Assistant Professor of Clinical Medicine
Jerome E. Cook, M.D. ..........................Assistant Professor of Clinical Medicine
Charles W. Duden, M.D. ........................Assistant Professor of Clinical Medicine
Charles H. Eymann, M.D. ........................Assistant Professor of Clinical Medicine
Robert J. Glaeser, M.D. ........................Assistant Professor of Medicine
Leo Gottlieb, M.D. ..........................Assistant Professor of Clinical Medicine
Samuel B. Grant, M.D. ........................Assistant Professor of Clinical Medicine
Paul O. Hagemann, M.D. ........................Assistant Professor of Clinical Medicine
Thomas Hunter, M.D. ..........................Assistant Professor of Medicine
Bruce D. Kenamore, M.D. .....................Assistant Professor of Clinical Medicine
George D. Kettelkamp, M.D. ..................Assistant Professor of Clinical Medicine
William B. Kountz, M.D. ........................Assistant Professor of Clinical Medicine
John V. Lawrence, M.D. ........................Assistant Professor of Clinical Medicine
Edward Massie, M.D. ..........................Assistant Professor of Clinical Medicine
Sedgwick Mead, M.D. ..........................Assistant Professor of Physical Medicine
Albert I. Mendeloff, M.D., M.P.H. ..........Assistant Professor of Medicine
Harold Scheff, M.D. ..........................Assistant Professor of Clinical Medicine
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virgil Scott, M.D.</td>
<td>Assistant Professor of Medicine</td>
</tr>
<tr>
<td>Arthur E. Strauss, M.D.</td>
<td>Assistant Professor of Medicine</td>
</tr>
<tr>
<td>Barrett Taussig, M.D.</td>
<td>Assistant Professor of Medicine</td>
</tr>
<tr>
<td>Lawrence D. Thompson, M.D.</td>
<td>Assistant Professor of Medicine</td>
</tr>
<tr>
<td>Ray D. Williams, M.D.</td>
<td>Assistant Professor of Medicine</td>
</tr>
<tr>
<td>Keith S. Wilson, M.D.</td>
<td>Assistant Professor of Medicine</td>
</tr>
<tr>
<td>Dean F. Davies, M.D.</td>
<td>Research Associate in Medicine</td>
</tr>
<tr>
<td>Reubenia Dubach, Ph.D.</td>
<td>Research Associate in Medicine</td>
</tr>
<tr>
<td>Virginia Minnich, M.S.</td>
<td>Research Associate in Medicine</td>
</tr>
<tr>
<td>Mary Ruth Smith, M.S.</td>
<td>Research Associate in Medicine</td>
</tr>
<tr>
<td>Harry Agress, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>Louis F. Aitken, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>Walter M. Baumgarten, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>Sim F. Beam, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>William C. Becke, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>Bernard Bercu, M.D.</td>
<td>Instructor in Medicine</td>
</tr>
<tr>
<td>Grace Bergner, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>Loren F. Blaney, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>Edward Cannady, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>Benjamin H. Charles, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>Cecil M. Charles, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>William H. Daughaday, M.D.</td>
<td>Instructor in Medicine</td>
</tr>
<tr>
<td>Anthony B. Day, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>Truman Drake, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>Joseph C. Edwards, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>Robert Elliott, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>Julius Elson, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>Herman Erlanger, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>I. J. Flance, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>Bernard Friedman, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>Melvin Goldman, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>Stanley Hampton, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>Raymond Holden, Jr., M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>John Horner, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>J. Ted Jean, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>Michael Karl, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>Robert W. Kelley, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>David N. Kerr, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>Robert C. Kingsland, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>Melvin B. Kirstein, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>Karl F. Koenig, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>Hiram S. Liggett, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>Richard Maxwell, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>Joseph Noah, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>Robert Paine, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
<tr>
<td>Harold Roberts, M.D.</td>
<td>Instructor in Clinical Medicine</td>
</tr>
</tbody>
</table>

1 In residence at Los Alamos.
THE SCHOOL OF MEDICINE

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

**Allergy** .......................................................... Dr. Alexander

**Arthritic Disease** ............................................. Dr. Hagemann

**Cardiovascular Disease** ....................................... Dr. J. Smith

**Chest Disease** ................................................ Dr. Goldman

**Dermatology** .................................................. Dr. Weiss

**Gastroenterology** ............................................. Dr. Duden

**Hematology** .................................................... Dr. C. V. Moore

**Hypertension** .................................................. Dr. Schroeder

**Infectious Disease** ........................................... Dr. Harford

**Metabolic Disease** ............................................ Dr. Daughaday

---

1 In residence at Los Alamos.
Instruction in medicine commences with the second trimester of the second year and continues throughout the third and fourth years of the curriculum. The teaching of the second year has two main objectives—first, the correlation of the basic sciences with the clinical aspects of disease, and second, training in the technical methods of physical examination and laboratory diagnosis. By the beginning of the third year the student is prepared for supervised clinical study of individual patients in the wards. The emphasis in the junior year is placed upon clinical diagnosis. In the final year each student acts for 6 weeks as clinical clerk in the general medical and dermatological clinics, and for 6 weeks in the wards of Barnes Hospital. During his senior clinical clerkship he receives formal instruction in medical therapeutics. In addition each junior student serves as a clinical clerk in the venereal disease clinic during his clerkship in Preventive Medicine.

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

SECOND YEAR

20. ELEMENTARY MEDICINE.

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

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

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

THIRD YEAR

30. GENERAL MEDICINE.

(a) Supervised Study of Patients in Wards of St. Louis City Hospital. Students are assigned in rotation as clinical clerks to the patients admitted to the medical service of the hospital. Teaching exercises
include ward rounds, clinics, and afternoon work in the wards and laboratories. 31 hours a week for eight weeks. 248 hours.

(Drs. Glaser, Taussig, and Staff)

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

(Dr. Harford)

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

(Dr. Fiance)

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

(Dr. C. Moore and Staff)

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

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

FOURTH YEAR

40. MEDICINE.

(a) Clinical clerkship in Hospital Wards. For six weeks the entire day is spent in the medical wards at Barnes Hospital. Patients are assigned for complete study and are followed throughout their stays in the hospital. Cases are presented by the student before the attending physician at ward rounds on the General Medical Wards three times a week, on the Metabolism Ward once a week, on the Neurology Service once a week, and to the Consultant in Psychosomatic Medicine once a week. The students also attend weekly Staff Rounds. 198 hours.

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

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

Morning

Medicine A Clinic (General Medicine)

(Drs. Goldman, Massie, Brooks, and Staff)
Medicine B Clinic (General Medicine)  
(Drs. Hagemann, Kenamore, Brooks, and Staff)  

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

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

41. MEDICAL CLINICS. Cases which have been studied by students working in the wards of the Barnes Hospital are presented before the third and fourth year classes to illustrate medical problems of particular interest. One hour each week throughout the year. 36 hours.  
(Drs. Wood, C. Moore, and Staff)  

42. CLINICAL PATHOLOGICAL CONFERENCES. Abstracts of the clinical records of patients upon whom post mortem examinations have been performed are presented in advance to members of the third and fourth years classes and to members of the medical staff. At each conference the diagnosis is discussed in detail by the clinical staff before the anatomical findings are presented by the pathologists. 36 hours.  
(Dr. Alexander and Medical Staff, Dr. Robert Moore and Pathology Staff)  

ELECTIVE COURSES  

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

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

52. Medical Specialty Clinics. Four students—Afternoons, six weeks. Gastrointestinal (Monday), Allergy (Tuesday), Arthritic (Wednesday), and Endocrine (Thursday).  
(Drs. Brooks, Kenamore, Eyermann, Hagemann, and Olmsted)  

53. Diseases of the Chest. Koch Hospital. Four students—All day for six weeks. Individual training in the clinical examination of patients suffering from thoracic disease. Assignment of selected cases. Discussion and demonstration of therapeutic procedures. Attendance at staff conferences and Clinical Pathological Conferences at Koch Hospital.  
(Drs. Kettelkamp, Friedman)  

* Held at the Barnard Free Skin and Cancer Hospital.
54. Metabolic Diseases. Two students—All day for six weeks. Rounds and assignment of selected cases in metabolism ward of the Barnes Hospital. Attendance at Diabetic and Endocrine Clinics in Washington University Clinics. Training in special diagnostic tests applicable to the study of metabolic and endocrine diseases.

(Dr. Daughaday)

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

(Dr. Harford)

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

(Dr. C. Moore)

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

(Dr. Smith and Staff)

58. Medical Research. A limited number of qualified students are given the opportunity to carry on original research in the laboratories of the Department of Medicine. Students wishing to do research should arrange for elective periods of at least 12 and preferably 18 weeks (see summer clerkships).

(Dr. Wood)
SECTION ON DERMATOLOGY

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

FOURTH YEAR

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

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

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

ELECTIVE COURSE

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

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

1 July 1 to September 30, 1950.
NEUROPSYCHIATRY

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

1 September 1, 1950, to June 30, 1951.
Instruction in the Department of Neuropsychiatry is given in all four years of the medical course. In the first semester a course is given on

1 July 1 to August 31, 1950.
the structure of the personality, with particular emphasis on the development of attitudes. Other lectures and demonstrations in the first and second years are designed to correlate clinical neurology with neuroanatomy, laying special emphasis upon the integration of organic functions through neural mechanisms and the encephalization and corticization of personality functions.

In the second year, correlated with medical and surgical instruction in history-taking and in physical examination, elementary instruction is given in the approach to the patient as a person. This is done in demonstration interviews, with subsequent discussion. The student begins to appreciate the chief patterns of behavior that characterize a given person; the vulnerabilities of the person when these patterns are inadequate for important life situations; the symptoms (disturbances in physiology, emotion and thinking) associated with ineffective management of common and uncommon life crises; and the nature of adequate reactions to life crises.

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

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

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

FIRST YEAR

10. NEUROPSYCHIATRY.

INTRODUCTION TO MEDICAL PSYCHOLOGY. Lectures, essays, and personal discussions concerning the development of human attitudes and emotional reactions affecting the study of practice of medicine. 12 hours.
INTEGRATIVE NEUROLOGY. A series of lectures, demonstrations and clinics concerning integrated functions of the organisms, given as part of Anatomy 12. The purpose of this series is to correlate laboratory investigations of the nervous system with clinical problems. Approximately 8 hours. (Drs. E. Gildea, O'Leary, Bishop)

SECOND YEAR

20. PSYCHIATRY.

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

20. NEUROLOGY.

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

THIRD YEAR

30. PSYCHIATRY.

(a) PSYCHOPATHOLOGY: some of the characteristics of abnormal human behavior. Lectures concerning those patterns of individual development which are often associated with personality disorders and the nature of the disorders. 12 hours. (Dr. E. F. Gildea)

(b) CLINICAL CLERKSHIP. One-ninth of the third-year class serve a clinical clerkship of six weeks in the University Clinics. The students are assigned patients and participate in the work of the clinics under close personal supervision of the staff members. Interviews with institutionalized patients and conferences on selected cases are provided at the Bliss Psychopathic Institute. Seminars covering the fundamentals of diagnosis, psychopathology, and therapy are given during this period of time. 126 hours. (Drs. E. Gildea, Fingert, Maughs, M. Gildea, Shobe, Robinson, Baur, Busch, Ulett, Mills, Starr, Mr. Buchmueller, Mrs. Golden)

31. NEUROLOGY.

(a) CLINICAL NEUROLOGY. Lectures with demonstrations on diseases affecting the nervous system. The semeiology of affections of the
The nervous system is taken up in the first third of the course, after which diseases of the nervous system are considered with emphasis on the biology of the disease and the rationale of therapy. One hour a week, third trimester. 24 hours. (Drs. Levy, O'Leary)

(b) Clinical Clerkships. Clinical clerkships on wards of the St. Louis City Hospital. Students participate under supervision in the examination and treatment of patients. Emphasis is laid on the technique and interpretation of history-taking and the neurological physical examination. 30 hours. (Drs. Gitt, Mills, Mueller)

**Fourth Year**

**40. Psychiatry.**

(a) Psychiatric Clinic. An exercise every other week throughout the year, alternating with the Neurological Clinic (Neurology 41 (a)). Presentation and discussion of psychiatric factors important in the diagnosis and treatment of patients in a general hospital. Emphasis is upon comprehensive medicine. One hour every two weeks throughout the year. 18 hours. (Drs. E. Gildea, Saslow)

(b) Psychiatric Rounds. (Part of Medicine 40.) One meeting a week with students during clerkships on ward medicine. Medical patients with psychiatric problems are presented by students, then interviewed, and various aspects of their problems are discussed. Emphasis is upon comprehensive medicine. 6 hours. (Drs. Saslow, Ulett)

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

**41. Neurology.**

(a) Neurological Clinic. An exercise every other week throughout the year, alternating with the Psychiatric Clinic (Psychiatry 40). The more important neurological diseases and syndromes are presented and discussed with illustrative cases from the Barnes Hospital. One hour every two weeks throughout the year. 18 hours. (Drs. Levy, O'Leary)

(b) Neurological Rounds. One meeting a week (2 hours) with the students during clerkships on ward medicine. Patients with neurological disorders are presented and discussed in detail. 8 hours. (Drs. Levy, O'Leary, Trufant)

**Elective Courses**

51. Psychiatry. Work may be elected for six weeks (for 12 weeks with Dr. Saslow). Student's preferences as to type of experience desired will be met so far as possible. Students may work in McMillan Hos-
pital, the Bliss Institute, the City Sanitarium, the Barnes Hospital, or the University Clinics. Each student must make his wishes known to Dr. E. F. Gildea and must then obtain the approval of the staff member who will supervise the work.

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

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

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

Willard M. Allen, M.D. .........Professor of Obstetrics and Gynecology
Harry Sturgeon Crossen, M.D.

Professor Emeritus of Clinical Obstetrics and Gynecology

Grandison D. Royston, M.D.

Professor Emeritus of Clinical Obstetrics and Gynecology

T. K. Brown, M.D. ..........Professor of Clinical Obstetrics and Gynecology
Otto Henry Schwarz, M.D. .......Professor of Obstetrics and Gynecology

A. Norman Arneson, M.D.

Associate Professor of Clinical Obstetrics and Gynecology

John E. Hobbs, M.D.

Associate Professor of Clinical Obstetrics and Gynecology

Robert J. Crossen, M.D.

Assistant Professor of Clinical Obstetrics and Gynecology

Otto S. Krebs, M.D.

Assistant Professor of Clinical Obstetrics and Gynecology

William H. Masters, M.D.

Assistant Professor of Obstetrics and Gynecology

Frank P. McNalley, M.D.

Assistant Professor of Clinical Obstetrics and Gynecology

Charles D. O'Keefe, M.D.

Assistant Professor of Clinical Obstetrics and Gynecology

Richard Paddock, M.D.

Assistant Professor of Clinical Obstetrics and Gynecology

Melvin A. Roblee, M.D.

Assistant Professor of Clinical Obstetrics and Gynecology

Adolph G. Schlossstein, M.D.

Assistant Professor Emeritus of Clinical Obstetrics and Gynecology

Samuel D. Soule, M.D.

Assistant Professor of Clinical Obstetrics and Gynecology

Carl R. Wegner, M.D.

Assistant Professor of Clinical Obstetrics and Gynecology

Hubert L. Allen, M.D.

Instructor in Clinical Obstetrics and Gynecology

Franz Arzt, M.D. ..........Instructor in Clinical Obstetrics and Gynecology

Arthur R. Bortnick, M.D.

Instructor in Clinical Obstetrics and Gynecology

Francis J. Canepa, M.D.

Instructor in Clinical Obstetrics and Gynecology

Myron W. Davis, M.D.

Instructor in Clinical Obstetrics and Gynecology

Arthur T. Esslinger, M.D.

Instructor in Clinical Obstetrics and Gynecology

Herman Hutto, M.D. .......Instructor in Clinical Obstetrics and Gynecology

Grover B. Liese, M.D.

Instructor in Clinical Obstetrics and Gynecology
Paul F. Max, M.D. Instructor in Clinical Obstetrics and Gynecology
Milton H. Meyerhardt, M.D.
Instructor in Clinical Obstetrics and Gynecology
Seymour Monat, M.D.
Instructor in Clinical Obstetrics and Gynecology
Kevin C. Morrin, M.B.
Instructor in Clinical Obstetrics and Gynecology
John B. O'Neill, M.D.
Instructor in Clinical Obstetrics and Gynecology
Leslie E. Patton, M.D.
Instructor in Clinical Obstetrics and Gynecology
David Rothman, M.D.
Instructor in Clinical Obstetrics and Gynecology
Willard C. Scrivner, M.D.
Instructor in Clinical Obstetrics and Gynecology
Frances H. Stewart, M.D.
Instructor in Clinical Obstetrics and Gynecology
Helman C. Wasserman, M.D.
Instructor in Clinical Obstetrics and Gynecology
Ralph B. Woolf, M.D.
Instructor in Obstetrics and Gynecology
George J. L. Wulff, Jr., M.D.
Instructor in Clinical Obstetrics and Gynecology
William Berman, M.D.
Assistant in Clinical Obstetrics and Gynecology
Bryce H. Bondurant, M.D.
Assistant in Clinical Obstetrics and Gynecology
MacDonald Bonebrake, M.D.
Assistant in Obstetrics and Gynecology
John L. Cockrell, M.D.
Assistant in Obstetrics and Gynecology
Charles R. Gulick, M.D.
Assistant in Clinical Obstetrics and Gynecology
Arthur L. Haskins, M.D.
Assistant in Obstetrics and Gynecology
William D. Hawker, M.D.
Assistant in Clinical Obstetrics and Gynecology
Samuel J. Hayward
Research Assistant in Obstetrics and Gynecology
Frank B. Long, M.D.
Assistant in Obstetrics and Gynecology
Dorothy T. Magallon, M.D.
Assistant in Obstetrics and Gynecology
James Pennoyer, M.D.
Assistant in Clinical Obstetrics and Gynecology
Donald W. Robinson, M.D.
Assistant in Obstetrics and Gynecology
Wallace R. Stacey, M.D.
Assistant in Obstetrics and Gynecology
Alfred R. Sudholt, M.D.
Assistant in Clinical Obstetrics and Gynecology
Seth S. Wissner, M.D.
Assistant in Obstetrics and Gynecology
Carl T. Woolsey, M.D.
Assistant in Obstetrics and Gynecology
Marvin H. Grody, M.D.
Fellow in Obstetrics and Gynecology
Cedric C. Johnson, M.D.
Fellow in Obstetrics and Gynecology
Elfred H. Lampe, M.D.
Fellow in Obstetrics and Gynecology
Robert M. Ruch, M.D.
Fellow in Obstetrics and Gynecology
Alfred I. Sherman, M.D.
Fellow in Obstetrics and Gynecology
Robert W. Stevens, M.D.
Fellow in Obstetrics and Gynecology
Students are given practical instruction in obstetrics and gynecology in the St. Louis Maternity Hospital, the Barnes Hospital, the University Clinics and the St. Louis City Hospital. The St. Louis Maternity Hospital provides approximately 3300 confinements, the St. Louis City Hospital 600 and the home delivery service of the University Clinics 100, annually. On the gynecological divisions there are approximately 300 admissions annually in the Barnes Hospital and 1,400 in St. Louis Maternity Hospital which are available for teaching purposes. Instruction in the care of ambulatory patients is carried out in the University Clinics where about 1,800 new patients are seen and 17,000 follow up visits are made annually.

SECOND YEAR

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

THIRD YEAR

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

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

FOURTH YEAR

40. CLINICS AND LECTURES. Entire class once weekly throughout the year. 36 hours.  
(Dr. Allen and Staff)

41. CLINICAL CLERKS. One-eighteenth of the class serves as clinical clerks in the University Clinics for a period of two weeks. During this period they spend the day from 9:00 to 12:00 and 1:30 to 4:00. New patients are assigned, and after complete history and physical examination have been made, each case is reviewed with the student by a member of the staff. Old patients are also seen frequently and ample opportunity is provided for examination of prenatal patients. Students also attend special clinics which are held concurrently with the regular clinic. 61 hours.
42. Obstetrical Service. A second group of one-eighth of the class spends two weeks on obstetrical call. During this period they reside in the hospital, some at the St. Louis Maternity Hospital and others at the St. Louis City Hospital, and attend under supervision a number of women during labor. In some instances they will attend labor conducted in the home.

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

ELECTIVE COURSES

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

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

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

Lawrence T. Post, M.D.
Professor of Clinical Ophthalmology and Head of the Department

M. Hayward Post, M.D. Professor of Clinical Ophthalmology
William E. Shahan, M.D.
Professor Emeritus of Clinical Ophthalmology

Meyer Wiener, M.D. Professor Emeritus of Clinical Ophthalmology
B. Y. Alvis, M.D. Associate Professor of Clinical Ophthalmology
Frederick O. Schwartz, M.D.
Associate Professor of Clinical Ophthalmology

Frederick E. Woodruff, M.D.
Associate Professor Emeritus of Clinical Ophthalmology

Carl C. Beisbarth, M.D. Assistant Professor of Clinical Ophthalmology
H. Rommel Hildreth, M.D.
Assistant Professor of Clinical Ophthalmology

William M. James, M.D.
Assistant Professor of Clinical Ophthalmology

Adolph C. Lange, M.D. Assistant Professor of Clinical Ophthalmology
Theodore E. Sanders, M.D.
Assistant Professor of Clinical Ophthalmology

Richard G. Scobee, M.D.
E. B. Alvis, M.D.
Daniel Bisno, M.D.
James H. Bryan, M.D.
J. C. Crawford, M.D.
Ruth S. Freedman, M.D.
David M. Freeman, M.D.
S. Albert Hanser, M.D.
William Meinberg, M.D.
Benjamin Milder, M.D.
Paul W. Miles, M.D.
Harry D. Rosenbaum, M.D.
Philip T. Shahan, M.D.
Harold Beasley, M.D.
Lamar B. Harper, M.D.
William A. Moor, A.B.
John L. Power, M.D.
Ralph S. Riffenburgh, M.D.
Paul H. Ripple, M.D.
James H. Scruggs, Jr., M.D.
Justin Sleight, M.D.
John W. Sneed, Jr., M.D.

1 July 1 to July 31, 1950.
2 July 1, 1950, to May 31, 1951.
3 August 1, 1950, to May 31, 1951.
4 July 1 to December 31, 1950.
Arthur W. Stickle, Jr., M.D.\textsuperscript{1} \hspace{.5cm} \textit{Assistant in Ophthalmology}
Richard Thomas, M.D.\textsuperscript{2} \hspace{.5cm} \textit{Assistant in Ophthalmology}
Stanley Truhlsen, M.D.\textsuperscript{3} \hspace{.5cm} \textit{Assistant in Ophthalmology}

\textbf{SECOND YEAR}

\textbf{OPHTHALMOLOGY.} Lectures and demonstrations are given as a part of the course in Conjoint Medicine. 3 hours. (See page 103.)
(Drs. Lawrence Post, James, Scobee)

\textbf{THIRD YEAR}

30. \textbf{OPHTHALMOLOGY.} Twelve lectures are given in the second trimester.
(Drs. Lawrence Post, Scobee, P. Shahan)

\textbf{FOURTH YEAR}

40. \textbf{CLINICAL OPHTHALMOLOGY.} Instruction in diagnosis and treatment of eye diseases is given to small sections of the class. Eleven hours a week for two weeks. 22 hours.
(Drs. Lawrence Post, M. H. Post, Schwartz, James, Hildreth, Beisbarth, Lange, Meinberg, E. B. Alvis, Bryan, Rosenbaum, Hanser, Milder, Freedman, Freeman, Harper)

\textsuperscript{1} July 1, 1950, to May 31, 1951.
\textsuperscript{2} July 1 to July 31, 1950.
OTOLARYNGOLOGY

Theodore E. Walsh, M.R.C.S., L.R.C.P., Professor of Otolaryngology
Harry W. Lyman, M.D., Professor Emeritus of Clinical Otolaryngology
Hallowell Davis, M.D., Research Professor of Otolaryngology
Arthur W. Proetz, M.D., Professor of Clinical Otolaryngology
S. R. Silverman, Ph.D., Professor of Audiology
Arthur M. Alden, M.D., Associate Professor of Clinical Otolaryngology
James B. Costen, M.D., Associate Professor of Clinical Otolaryngology
Walter P. Covell, M.D., Associate Professor of Otolaryngology
French K. Hansel, M.D.

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

Assistant Professor of Clinical Otolaryngology
A. J. Cone, M.D.
Harry N. Glick, M.D.
Ben H. Senturia, M.D.
W. T. K. Bryan, M.D.
Harold M. Cutler, M.D.
L. W. Dean, Jr., M.D.
Guerdan Hardy, M.D.
Edward H. Lyman, M.D.
Joseph H. Ogura, M.D.
Allen B. Potter, M.D.
H. M. Smit, M.D.
A. C. Stutsman, M.D.
Robert E. Votaw, M.D.
Morris Davidson, M.D.
Sadab Dhiraputra, M.D.
Helen Gage, M.D.
Landon H. Gurnee, M.D.
Daniel Klaff, M.D.
Harry Ludwig, B.S.
F. W. Scherrrer, M.D.
Cumaro Serrano, M.D.
Catherine A. Smith, M.S.
Sanford Snyderman, M.D.
Jack L. Turner, M.D.
Charles Watkins, M.D.
Doris S. Woolsey, M.D.
Cesar Fernandez, M.D.

W. K. Kellogg Foundation Fellow in Otolaryngology

1 July 1 to August 31, 1950.
SECOND YEAR

Otolaryngology and Physical Diagnosis. The class is divided into small groups with individual instructors for a total of six hours for instruction in the methods of Otolaryngological diagnosis and the use of instruments peculiar to this field. Part of Conjoint Medicine (see page 103).

THIRD YEAR

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

FOURTH YEAR

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

ELECTIVE COURSE

50. Clerkship in Otolaryngology. Two students may serve as externes in the clinics for six weeks. Permission of the Head of the Department is necessary before registration for this elective. Full time. (Dr. Walsh and Staff)
Pathology for medical students is given during the second, third, and fourth years. In the second year there is the course in General and Special Pathology, and in the third and fourth years the students attend the Clinical and Pathological Conferences conducted in collaboration with the Clinical Departments.

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

The staff in pathology of numerous hospitals in and about St. Louis are members of the faculty of the department: Barnard Free Skin and Cancer Hospital (Dr. Frerichs), Ellis Fischel State Cancer Hospital (Dr. Johnson), St. Louis City Hospital (Drs. Saxton, M. Silberberg, and...
R. Silberberg), St. Louis County Hospital (Dr. Brown), Homer G. Phillips Hospital (Dr. Blache), and Veterans Administration Hospital at Jefferson Barracks (Dr. Leidler). Material from these hospitals is available for teaching and research.

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

**Clinical Pathology** Dr. Dammin

**Dentistry** Dr. Burstone

**Dermatology** Dr. Cooper

**Gerontology** Dr. Saxton

**Hematology** Dr. E. B. Smith

**Infectious Diseases** Dr. M. G. Smith

**Medicolegal Pathology** Dr. Brown

**Neuropathology** Dr. David Smith

**Oncology** Dr. Dixon

**Surgical Pathology** Dr. Ackerman

**SECOND YEAR**

20 (501). **Pathology.** General and special pathology is covered by lectures, gross and microscopic demonstrations, and laboratory work. In general pathology, degenerations, inflammations, infectious diseases, and tumors are considered. The diseases of each organ system are studied during the time devoted to special pathology. Small groups are given instruction in post-mortem technique, and in gross pathology. 330 hours. (Drs. Moore, M. G. Smith, Dammin, E. B. Smith, D. Smith, Dixon, and Staff)

**THIRD AND FOURTH YEARS**

30 and 40. **Clinical and Pathological Conference.** Barnes Hospital.

The clinical history and treatment of patients who have died are discussed before the class by the physicians and surgeons of the departments concerned. These conferences afford the students an opportunity to interpret the clinical observations in the light of the post-mortem findings. One hour a week during the third and fourth years. (Drs. Moore, Margaret Smith, Dammin, and E. B. Smith)

**ELECTIVE COURSES**

50 (502). **Major Research.** The laboratory offers facilities for research in pathology. Specialists and students with adequate training who desire to extend their knowledge of pathology will be admitted. (Drs. Moore, Margaret Smith, Dammin, Ackerman, Dixon, E. B. Smith, Cooper, and D. Smith)
51 (595). *Journal Club*. The current journals concerned with morphological and experimental pathology and oncology are reviewed by the members of the staff. Properly prepared students may attend or participate. Two hours once a week throughout the year.

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

(Drs. Moore, Margaret Smith)

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

(Drs. Moore, Margaret Smith)

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

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

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

56. *Minor Research*. Those students who during a preceding summer or school year have initiated a research problem in Pathology may continue the work during the elective trimester of the fourth year. Full time for six weeks. All trimesters.

(Drs. Moore, Margaret Smith, Dammin, Ackerman and Staff)
THE EDWARD MALLINCKRODT DEPARTMENT OF PEDIATRICS

Alexis F. Hartmann, M.D. .................................................. Professor of Pediatrics
Jean V. Cooke, M.D. .......................................................... Professor of Pediatrics
Borden Smith Veeder, M.D. .................................................. Professor of Clinical Pediatrics
Adrien Bleyer, M.D. ............................................................ Associate Professor Emeritus of Clinical Pediatrics
Gilbert B. Forbes, M.D. ....................................................... Associate Professor of Pediatrics
David Goldring, M.D. ......................................................... Assistant Professor of Pediatrics
Joseph Jaudon, M.D. ........................................................... Assistant Professor of Clinical Pediatrics
Donald Thurston, M.D. ....................................................... Assistant Professor of Pediatrics
Park J. White, M.D. ............................................................ Assistant Professor of Clinical Pediatrics
Paul Zentay, M.D. ............................................................. Assistant Professor of Clinical Pediatrics
Ruth Martin, D.D.S. ........................................................... Dentist on the Pediatric Staff
Joseph A. Bauer, M.D. ....................................................... Instructor in Clinical Pediatrics
Dorothy Case, M.D. ........................................................... Instructor in Pediatrics
Max Deutch, M.D. ............................................................... Instructor in Clinical Pediatrics
Ruth Gerstung, B.A. ............................................................ Instructor in Bacteriology in Pediatrics
Stanley Harrison, M.D. ...................................................... Instructor in Clinical Pediatrics
Frederick A. Jacobs, M.D. ................................................... Instructor in Clinical Pediatrics
Dorothy Jones, M.D. ........................................................... Instructor in Clinical Pediatrics
William G. Klingberg, M.D. ................................................. Instructor in Pediatrics
Paul E. Kubitschek, M.D. .................................................... Instructor in Clinical Pediatrics
Sol Londe, M.D. ................................................................. Instructor in Clinical Pediatrics
Maurice Lonsway, M.D. ...................................................... Instructor in Clinical Pediatrics
Miriam M. Pennoyer, M.D. .................................................. Instructor in Clinical Pediatrics
Anne M. Perley, A.M. ........................................................ Instructor in Biological Chemistry in Pediatrics
Edith C. Robinson, M.D. .................................................... Instructor in Clinical Pediatrics
Edward H. Rohlfing, M.D. .................................................. Instructor in Clinical Pediatrics
Wayne A. Rupe, M.D. ........................................................ Instructor in Clinical Pediatrics
Alfred S. Schwartz, M.D. ................................................... Instructor in Clinical Pediatrics
Jean H. Thurston, M.D. ...................................................... Instructor in Pediatrics
H. Ewing Wachter, M.D. ................................................... Instructor in Clinical Pediatrics
John Holland ................................................................. Dentist on the Pediatric Staff
Helen Aff, M.D. ............................................................... Assistant in Clinical Pediatrics
M. Remsen Behrer, M.D. .................................................. Assistant in Pediatrics
C. Read Boles, M.D. ......................................................... Assistant in Clinical Pediatrics
Martin Calodney, M.D. .................................................... Assistant in Clinical Pediatrics
George M. Ewing, M.D. ..................................................... Assistant in Pediatrics
Kenneth J. Fijan, M.D. ....................................................... Assistant in Pediatrics
Robert H. Friedman ........................................................ Assistant in Pediatrics
William J. Gallagher, Jr., M.D. ........................................ Assistant in Pediatrics
Mary B. Gilliland, M.D. .................................................... Assistant in Pediatrics
Samuel Gollub, M.D. ....................................................... Assistant in Clinical Pediatrics
Leo Gowen, M.D. ........................................................... Assistant in Clinical Pediatrics
Gene Grabau, M.D. .......................................................... Assistant in Clinical Pediatrics
Norman Hankin, M.D. ...................................................... Assistant in Clinical Pediatrics
The instruction during the third year is designed to introduce the subject of pediatrics to the student by a systematic course of lectures emphasizing particularly normal growth and development, infant nutrition and feeding, acute infectious diseases, and serious disturbances in water and mineral metabolism.

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

SECOND YEAR

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

THIRD YEAR

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

FOURTH YEAR

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

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

1 On leave of absence.
42. **CLINICAL CLERKSHIPS.** For essentially the entire day, beginning at 9:00 a.m., one-sixth of the class works as clinical clerks for six weeks. This work consists of the following: (1) daily early morning ward rounds with the visiting staff; (2) work on assigned cases, which may be interrupted for special demonstrations; (3) daily conferences with members of the teaching staff, during which the more important pediatric subjects are stressed; (4) clinical conference weekly, during which students present selected cases which are then discussed by the staff; (5) work in the Outpatient Department of the University Clinics, including the general pediatric clinic and such special clinics as the well-baby clinic and the allergy clinic; (6) work in special metabolic clinic conducted in the hospital proper on Saturday morning; (7) clinical conferences at the St. Louis City Hospital; (8) special demonstrations in common nursing procedures, which include the preparation of artificial formulae. (Drs. Hartmann, Cooke, Forbes, Goldring, Klingberg, D. Thurston, J. Thurston)
THE EDWARD MALLINCKRODT DEPARTMENT OF
PHARMACOLOGY

Oliver H. Lowry, Ph.D., M.D............................Professor of Pharmacology
Helen Tredway Graham, Ph.D..........Associate Professor of Pharmacology
Robert F. Furchgott, Ph.D...........Assistant Professor of Pharmacology
F. Edmund Hunter, Jr., Ph.D.........Assistant Professor of Pharmacology
Morris Friedkin, Ph.D..............................Instructor in Pharmacology
Jack L. Strominger, M.D..................Research Assistant in Pharmacology
William P. McCann, M.D.

Life Insurance Medical Research Fellow in Pharmacology
Eli Robins, M.D.
United States Public Health Service Fellow in Pharmacology
Byron S. Wenger, Ph.D.
United States Public Health Service Fellow in Pharmacology

SECOND YEAR

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

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

(b) LABORATORY COURSE. A course arranged to demonstrate the
chemical properties and pharmacological action of the more important
drugs, and at the same time to familiarize the student with methods and
processes used in experimental pharmacology. 100 hours.

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

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

ELECTIVE COURSES

50. (580). Advanced Work. This is arranged to suit individual
needs. Opportunity is offered for the extensive study of any special
group of drugs desired. In addition students may elect work in toxico-
logy. Hours and details of the work to be arranged.

51 (590). Research. The facilities of the laboratory are available to
those who wish to carry on original investigation on problems of their
own or on those the department is prepared to suggest.
PHYSIOLOGY

Harvey L. White, M.D. .................................. Professor of Physiology
Joseph Erlanger, M.D. ................................. Professor Emeritus of Physiology
Hallowell Davis, M.D. .................................. Professor of Physiology
Arthur S. Gilson, Jr., Ph.D. ......................... Associate Professor of Physiology
Gordon M. Schoepfle, Ph.D. ......................... Assistant Professor of Physiology
William Sleator, Jr., Ph.D. ...........................

Assistant Professor of Biophysics in Physiology
Albert Roos, M.D. ...................................... Instructor in Physiology
Adolph Surtshin, M.D. .................................. Instructor in Physiology
Theodore Rosenthal, Ph.D. ............................ Research Associate in Physiology
Doris Rolf, A.B. .......................................... Research Assistant in Physiology

FIRST YEAR

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

(a) Lectures and recitations. Second and third trimesters of the first year. 140 hours.

(b) Laboratory. Third trimester of the first year. 150 hours.  
(Drs. White, Gilson, Schoepfle, Sleator, Roos, Surtshin, Rosenthal)

ELECTIVE COURSES

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

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

Robert E. Shank, M.D. .................................. Professor of Preventive Medicine
Albert I. Mendeloff, M.D., M.P.H. ..................... Assistant Professor of Preventive Medicine
Virgil Scott, M.D. ..................................... Assistant Professor of Preventive Medicine
Herbert R. Domke, M.D., M.P.H. ....................... Assistant Professor of Public Health
Helen Brazell, M.S.W. .................................. Instructor in Social and Environmental Studies
Elaine M. Thomas, M.D. ................................ Instructor in Preventive Medicine and Public Health
George X. Trimble, M.D. ................................ Instructor in Preventive Medicine
Kathleen Rettro, B.S. ................................... Research Assistant in Preventive Medicine
Ann DeHuff Peters, M.D.* ................................ Fellow in Preventive Medicine
Albert B. Eisenstein, M.D. .............................. Fellow in Nutrition
Jesse B. Lasater ........................................... Lecturer in Vital Statistics
Elmer P. Wheeler ......................................... Lecturer in Public Health
Joseph C. Willett, D.V.M. ................................ Lecturer in Public Health

Instruction in preventive medicine and public health is given in each of the first three years of the undergraduate medical curriculum. The teaching in the first year, under the direction of the Student Health Service which is organized within the department, acquaints the student with the nature of health and the techniques available for health maintenance. The Health Service throughout the four years attempts to teach by precept those aspects of preventive medicine applicable to the office practice of medicine. Also in the first year there is an introduction to quantitative methods in medicine based on student needs. In the second year there is a series of discussions on infection and disease as they affect aggregations of individuals, and on the importance of both community and individual action in the prevention and control of disease. In the third year the objective is to give the student information concerning the broader aspects of medicine by means of studies of patients in relation to their families, their environment, and the community. During this year the student is introduced to the activities of a community department of health, and the role of the private practitioner in these activities is stressed.

FIRST YEAR

10. Preventive Medicine. A series of 12 informal discussions is designed to introduce the student to the problems of health and normality. The prevention of illness among medical students is correlated with intelligent study habits, recreational activities, and use of the facilities provided by the Health Service. First trimester, 1 hour a week, 12 hours.  
(Dr. Mendeloff and Staff)

* Also Fellow in Neuropsychiatry,
1 Department of Medicine.
11. Quantitative Methods in Medicine. Twelve hours are devoted to lectures and exercises devised to acquaint the student with the importance of quantitative methods in medicine. The exercises are related directly to courses in pharmacology, physiology, and epidemiology. Third trimester, 1 hour a week, 12 hours.  
(Dr. Paul R. Rider\(^1\))

**SECOND YEAR**

20. Natural History of Disease. This is a series of lectures and exercises reviewing the data and scope of epidemiology and the determining factors in the description, study, and distribution of disease. Emphasis is placed upon important sources of information rather than upon the description of disease per se. The exercises require the student to examine the information available and to formulate hypotheses for further investigation in order to institute and to evaluate preventive measures.  
(Dr. Shank and Staff)

**THIRD YEAR**

30. Clerkship in Preventive Medicine and Public Health. One-ninth of the class is assigned in rotation to this department for one-third trimester each. 130 hours. The main features of the assignment are:

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

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

\(^1\) Department of Mathematics.  
\(^2\) Department of Pediatrics.
(c) Public Health. Students are assigned in rotation to various activities in the County Health Department. These include visiting with a Public Health Nurse, observation of a poliomyelitis rehabilitation center and a tuberculosis diagnostic clinic. One afternoon is spent observing a water treatment unit, a sewage disposal plant, and a dairy. In addition, opportunity is provided to observe and discuss considerations relative to health maintenance in industry.

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

(d) Syphilis Clinic. Each student spends three half-days per week in venereal disease clinics. At the U. S. Public Health Service Rapid Treatment Center, where the majority of early syphilis in this area is treated, emphasis is placed upon venereal disease as a public health problem. The student participates in the diagnosis and rapid treatment of patients on a mass basis in a Government institution. In the syphilis clinic of the Washington University Clinics, diagnosis and management of patients on an individual and family basis are stressed.

(Drs. Scott, Maxwell, Roberts, Skinner, J. Smith, Williams)

ELECTIVE

50. Professional Conduct and Medical Economics. An elective course in which the following subjects are discussed: the young physician and his problems; group medicine and specialization; ethical relations between physicians; organized medicine; birth control; quackery, fads, and cults; medical finance; industrial and contract practice; "systems" of practice in other countries; health insurance plans. 12 hours.

(Dr. Park White)

1 Department of Pediatrics.
2 Department of Medicine.
RADIOLOGY

Hugh M. Wilson, M.D. ........................................ Professor of Radiology
Sherwood Moore, M.D. ........................................ Professor Emeritus of Radiology
Arthur L. Hughes, D.Sc. .................................... Consulting Physicist to the Mallinckrodt Institute of Radiology
Mildred Trotter, Ph.D. ....................................... Consultant in Anatomy
A. N. Arneson, M.D. .......................................... Associate Professor of Clinical Radiology
William E. Koch, Jr., D.D.S. ............................ Associate Professor of Clinical Radiodontics
Edward Reinhard, M.D. ...................................... Associate Professor of Radiology
Wendell G. Scott, M.D. ....................................... Associate Professor of Clinical Radiology
Martin D. Kamen, Ph.D. ..................................... Associate Professor of Clinical Radiochemistry
Oscar C. Zink, M.D. .......................................... Assistant Professor of Clinical Radiology
Donald S. Bottom, M.D. .................................... Instructor in Clinical Radiology
Gladden V. Elliott, M.D. .................................... Instructor in Radiology
Wesley Fee, M.D. .............................................. Instructor in Radiology
Otto H. Grunow, M.D. ....................................... Instructor in Radiology
Thomas Keely, M.D. .......................................... Instructor in Radiology
William B. Seaman, M.D. ................................... Instructor in Radiology
A. Jack Stacy, M.D. .......................................... Instructor in Radiology
R. W. Eells, M.D. ............................................. Assistant in Radiology
Hugh Harting, M.D. .......................................... Assistant in Radiology
R. S. Lackey, M.D. ............................................. Assistant in Radiology
Colby S. Stearns, M.D. ...................................... Assistant in Radiology
Arthur Coleman, Jr., M.D. ............................... Assistant in Radiology
Wade Shuford, M.D. .......................................... Assistant in Radiology
John Glover, Ph.D. .......................................... Commonwealth Fund Fellow in Radiology
Sumner N. Marder, M.D. .................................... American Cancer Society Fellow in Radiology

THIRD YEAR

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

(Dr. Wilson and Staff)

FOURTH YEAR

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

(Dr. Wilson and Staff)

1 July 1 to December 31, 1950.
ELECTIVE COURSES

50. **Clerkship in Radiology.** Not to exceed two students at one time. May act as externes in the Department of Radiology. They will participate in all activities. Full time for six weeks.

(Dr. Wilson and Staff)

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

(Dr. Wilson and Staff)

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

(Dr. Wilson and Staff)

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

(Dr. Wilson and Staff)
THE MARY CULVER DEPARTMENT OF SURGERY
(The Department of Surgery includes General Surgery, Orthopedic Surgery, Neurological Surgery, and Genitourinary Surgery)

Evarts A. Graham, M.D. ......................................................................................................................... Bixby Professor of Surgery
Vilray P. Blair, M.D. ............................................................................................................................... Professor Emeritus of Clinical Surgery
Ernest Sachs, M.D.

Professor Emeritus of Clinical Neurological Surgery

Major G. Seelig, M.D. ............................................................................................................................... Professor Emeritus of Clinical Surgery
James Barrett Brown, M.D. ...................................................................................................................... Professor of Clinical Surgery
Robert Elman, M.D. ............................................................................................................................... Professor of Clinical Surgery
Peter Heinbecker, M.D. ........................................................................................................................... Professor of Clinical Surgery
J. Albert Key, M.D. .................................................................................................................................... Professor of Clinical Orthopedic Surgery
Dalton K. Rose, M.D. ............................................................................................................................... Professor of Clinical Genitourinary Surgery
Henry G. Schwartz, M.D. ......................................................................................................................... Professor of Neurological Surgery
Lauren V. Ackerman, M.D. ....................................................................................................................... Associate Professor of Surgical Pathology
Eugene M. Bricker, M.D. ............................................................................................................................ Associate Professor of Clinical Surgery
Thomas H. Burford, M.D. ......................................................................................................................... Associate Professor of Surgery
Glover H. Copher, M.D. ............................................................................................................................ Associate Professor of Clinical Surgery
Justin J. Cordonnier, M.D.

Associate Professor of Clinical Genitourinary Surgery
Leonard T. Furlow, M.D.

Associate Professor of Clinical Neurological Surgery
Laurence Gumbreck, Ph.D. ....................................................................................................................... Research Associate in Surgery
Theodore E. Weichselbaum, Ph.D. ............................................................................................................ Research Associate in Surgery
Duff S. Allen, M.D. .................................................................................................................................... Assistant Professor of Clinical Surgery
Robert W. Bartlett, M.D. .......................................................................................................................... Assistant Professor of Clinical Surgery
Louis T. Byars, M.D. .................................................................................................................................. Assistant Professor of Clinical Surgery
Clarence H. Crego, Jr., M.D.

Assistant Professor of Clinical Orthopedic Surgery
Rogers Deakin, M.D.

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

Assistant Professor of Clinical Orthopedic Surgery
H. Relton McCarroll, M.D.

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

Assistant Professor of Clinical Genitourinary Surgery
J. G. Probstein, M.D. ................................................................................................................................. Assistant Professor of Clinical Surgery
Fred C. Reynolds, M.D.

Assistant Professor of Clinical Orthopedic Surgery
Franklin E. Walton, M.D. .......................................................................................................................... Assistant Professor of Clinical Surgery
Henry S. Brooke, Jr., M.D. ......................................................................................................................... Instructor in Clinical Surgery
Cyril J. Costello, M.D. .................................................................................................................................. Instructor in Clinical Surgery
Ben Eiseman, M.D. .................................................... Instructor in Surgery
Lee T. Ford, Jr., M.D. .............................................. Instructor in Clinical Orthopedic Surgery
Minot P. Fryer, M.D. ................................................ Instructor in Clinical Surgery
George A. Gaikins, M.D. ......................................... Instructor in Clinical Surgery
Heinz Haffner, M.D. ................................................. Instructor in Clinical Surgery
Oscar P. Hampton, M.D. ......................................... Instructor in Clinical Orthopedic Surgery
Edward C. Holscher, M.D. ..................................... Instructor in Clinical Orthopedic Surgery
Stanley M. Leydig, M.D. .......................................... Instructor in Clinical Orthopedic Surgery
Carl E. Lischer, M.D. ............................................... Instructor in Clinical Surgery
John James Modlin, M.D. ....................................... Instructor in Clinical Surgery
Maurice B. Roche, M.D. ......................................... Instructor in Clinical Orthopedic Surgery
Albert Roos, M.D. ................................................ Instructor in Surgery
George E. Roulhac, M.D. ........................................ Instructor in Neurological Surgery
Leo A. Sachar, M.D. ................................................ Instructor in Clinical Surgery
J. Hoy Sanford, M.D. ............................................. Instructor in Clinical Genitourinary Surgery
Carl A. Wattenberg, M.D. ....................................... Instructor in Clinical Genitourinary Surgery
Morris Abrams, M.D. ............................................. Assistant in Clinical Genitourinary Surgery
Carl J. Althaus, M.D. ............................................. Assistant in Clinical Genitourinary Surgery
J. W. Bassett, M.D. ................................................. Assistant in Surgery
J. Byron Beare, M.D. ............................................. Assistant in Clinical Genitourinary Surgery
Harvey R. Bernard, M.D. ....................................... Assistant in Surgery
Edward J. Bishop, M.D. ......................................... Assistant in Surgery
Vilray P. Blair, Jr., M.D. ......................................... Assistant in Clinical Orthopedic Surgery
Henry W. Bopp, M.D. ............................................ Assistant in Surgery
James T. Chamness, M.D. ...................................... Assistant in Surgery
William F. Collins, Jr., M.D. ................................. Assistant in Surgery
Harry Cutler, M.D. ................................................ Assistant in Clinical Genitourinary Surgery
Arthur R. Dalton, M.D. ........................................ Assistant in Clinical Surgery
Harry Fischer, M.D. ............................................... Assistant in Surgery
Virgil O. Fish, M.D. .............................................. Assistant in Clinical Surgery
Leon Fox, M.D. ...................................................... Assistant in Clinical Orthopedic Surgery
Gerhard E. Gruenfeld, M.D. .................................. Assistant in Clinical Surgery
Andy Hall, Jr., M.D. .............................................. Assistant in Clinical Genitourinary Surgery
Alex Harell, M.D. ................................................ Assistant in Orthopedic Surgery
Fleming B. Harper, M.D. ....................................... Assistant in Surgery
Carl J. Heifetz, M.D. ............................................. Assistant in Clinical Surgery
Thomas R. Hinchev, M.D. ...................................... Assistant in Surgery
Earl P. Holt, Jr., M.D. ............................................ Assistant in Surgery
Jules H. Kopp, M.D. .............................................. Assistant in Clinical Genitourinary Surgery
Richard A. Lemmer, M.D. ..................................... Assistant in Surgery
Charles Barber Mueller, M.D. ................................ Assistant in Surgery and Markle Scholar
John F. Neville, Jr., M.D. ........................................ Assistant in Surgery
Lawrence W. O'Neal, M.D. .................................... Assistant in Surgery
Morton Pareira, M.D. ............................................ Assistant in Clinical Surgery

1 On leave of absence.
The instruction in the Department of Surgery begins with an introduction to surgical principles at the end of the second year. These surgical principles for the most part are derived from fundamental concepts in the preclinical sciences which have been occupying the student since the beginning of his freshman year. Although in this course a few patients are used for the demonstration of lesions which illustrate the principles of surgery, it is really in the junior year that the first actual contact with patients occurs. Each student then is assigned to a clinical clerkship in the hospital wards and in that way is given an opportunity to study the more common and important kinds of surgical diseases. The junior clerkship on surgery lasts for one trimester and is divided between the surgical services at Barnes and St. Louis Children’s Hospital and at St. Louis City Hospital. Instruction during the clerkship in the junior year covers the field of

1 On leave of absence.
general surgery and the major specialties, and the broad general principles of pathology, pathologic physiology, diagnosis and treatment are extensively discussed. At St. Louis City Hospital special attention is given to the study of trauma and acute surgical emergencies. Students are given the opportunity of seeing all operations and are encouraged to participate as assistants in the operations on patients assigned to them. Special instruction in history writing, in the examination of the patient, and in various diagnostic and therapeutic techniques is given to small groups of students by the resident and assistant resident house officers. These small groups are in the nature of tutorial classes.

During the junior year also the students attend a course in surgical pathology, and a weekly surgical clinic lasting throughout the year. During the latter part of the year there are various symposia on surgical subjects held in conjunction with other departments for the entire class.

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

SECOND YEAR

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

THIRD YEAR

31. SURGICAL CLINIC. A weekly exercise throughout three trimesters. Patients presenting the more usual general surgical conditions are demonstrated and their diagnostic and therapeutic problems are discussed. Students of the fourth year also attend this clinic. 36 hours. (Dr. Graham)

32. (a) SURGICAL WARDS. For one trimester the student serves as a clerk in the surgical wards of Barnes, St. Louis Children's, and St. Louis City Hospitals. The time is divided between the Barnes Hospital service and that at City Hospital. The instruction in the latter hospital is under the direction of Drs. Bricker, Costello, Hafner, Lischer and Eckert. While on the City Hospital service the student spends two weeks on emergency call at the hospital and sees all emergencies admitted. Ward conferences are held regularly both at City Hospital and at Barnes Hospital and fundamental subject material is systematically covered. The students take the case histories and make the physical examinations
and the usual laboratory examinations on the patients assigned them. They assist at the operations and do some of the surgical dressings. Surgical pathological material is followed as an integral part of the case study. The students attend autopsies performed in the cases studied by them and are encouraged to be present at the pathological conference at which these cases are discussed. The student is encouraged to consult the library frequently in the solution of problems concerning his patients. Both at Barnes and St. Louis City Hospitals the students are met at regular intervals by the residents and assistant residents in informal conferences, at which times various questions which have arisen during the day are discussed and various aspects of the care of the patient considered. Particular effort is made to see that the student comes in contact with the more frequent and important surgical lesions and that the cases assigned to him are sufficiently diversified to afford him an accurate perspective of surgery. 168 hours.

(Various members of the staff)

(b) Fractures. All students are assigned to the fracture service of the City Hospital for two weeks (full time). In addition a coordinated series of lectures and demonstrations on fractures are given to the entire clerkship group each Wednesday morning at City Hospital. The fundamentals of the diagnosis, treatment, and healing of common fractures are covered at this time. 12 hours. (Dr. Hampton)

33. Surgical Pathology. Weekly exercises of two hours for three trimesters, at which time both early and late pathological changes are considered from the standpoint of their clinical manifestations. Pathological material from the operating room and the museum is studied both in the gross and microscopically. 72 hours. (Dr. Ackerman)

FOURTH YEAR

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

41. Outpatient Service. The general plan of the outpatient service for seniors is that one-ninth of the class at a time is assigned to surgical work for 8 weeks during each trimester. Of this time 4 weeks are devoted to general surgery and 4 weeks to the surgical specialties. In general surgery the students attend the Homer Phillips Hospital Clinic in the morning and the Washington University Clinic in the afternoon. The students have an opportunity to see their cases first and to make the initial examination and diagnosis under the supervision of an instructor. They then follow their own cases through subsequent stages of diagnosis and treatment. They assist in carrying out minor surgical procedure.
For 4 weeks the students are assigned to various surgical specialty clinics. These include 12 hours each in the genito-urinary, the orthopedic, plastic surgery, and neurosurgery clinics. In addition 6 hours each are spent in the rectal clinic and at the Shriners Hospital for Crippled Children.

(Various members of the staff)

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

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

(Dr. Eckert and others)

ELECTIVE COURSES

50. Surgical Pathology. Two students full time for six weeks, all trimesters. The elective will consist of a correlation of the clinical records of hospital patients with the pathological findings. Time will be devoted to current surgical journals as related to surgical pathology as well as a brief review of pathological techniques. (Dr. Ackerman)

51. Washington University Clinics. General surgery, six weeks for four students, mornings. The students will serve as clerks to outpatients, the time being spent in the study and care of the patients with special attention to minor surgical procedures.

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

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

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

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

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

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

MEDICAL JURISPRUDENCE
William W. Crowds, LL.B. Lecturer in Medical Jurisprudence

MEDICAL JURISPRUDENCE. A course given in the fourth year embracing medical evidence and testimony, expert testimony; dying declarations; rights of medical witnesses; establishing identity from living and dead bodies, sudden death from natural causes and by violence; criminal acts determined by medical knowledge; the legal relation of physician to patients and the public; insanity, and malpractice. 12 hours.

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

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

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

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

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

One summer camp training period of 6 weeks with pay is required for completion of the advanced course and can be accomplished by the student any one of two summers, at the end of the sophomore year or the junior year. A clinical clerkship of six weeks at an Army Hospital is available for the veteran in lieu of the summer camp. Students who successfully complete the course are offered commissions as First Lieutenants in the Officers' Reserve Corps upon graduation.

An allowance of approximately $27.00 per month is provided by the Army for the junior and senior students.
DIVISION OF POSTGRADUATE STUDIES

Washington University does not have a separate Graduate School of Medicine, but postgraduate educational programs are conducted by the School of Medicine and graduate courses leading to a master's and a doctorate degree are offered by the Graduate School of Arts and Sciences. For further information, write the Assistant Dean, Division of Postgraduate Studies, Washington University School of Medicine, St. Louis 10, Missouri.

GRADUATE COURSE IN OPHTHALMOLOGY
Richard G. Scobee, M.D. .................................................. Director

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

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

TUITION ........................................... $800.00

INTENSIVE COURSE ON MOTILITY
Richard G. Scobee, M.D. .................................................. Director

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

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

TUITION ........................................... $150.00

GRADUATE COURSE IN OTOLARYNGOLOGY
Theodore E. Walsh, M.D. .................................................. Director

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

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

TUITION ........................................... $800.00
SURGERY OF OTOSCLEROSIS
A six-weeks course consisting of laboratory and clinical work.

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

TUITION .................. $600.00

REFRESHER COURSE IN PEDIATRICS
Alexis F. Hartmann, M.D. .................................................. Director
A six-weeks course, consisting of lectures, clinical demonstrations and ward rounds. Applicants must be graduates of an approved medical school.

TUITION .............. $200.00 for the entire six weeks

JOINT REFRESHER COURSES IN CLINICAL SPECIALTIES
Joint refresher courses for one to eight weeks in the clinical subjects are offered once or twice a year, usually in April and October.

TUITION .............. $35.00 per week

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

TUITION .................. $150.00

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

TUITION .............. No charge

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

TUITION .............. $10.00 a day

RESIDENCIES IN THE CLINICAL SPECIALTIES
The hospitals affiliated with the School of Medicine offer internships, assistant residencies, and residencies in Medicine, Neuropsychiatry, Obstetrics and Gynecology, Ophthalmology, Otolaryngology, Pathology, Pediatrics, Radiology and Surgery. In addition there are residencies in Neurosurgery, Plastic Surgery, and Thoracic Surgery.

For further information write the Director of the Hospital or the Chief of the Service.
TEACHING AND RESEARCH DIVISIONS

INSTITUTE OF NEUROLOGY

The Institute of Neurology integrates the teaching in all departments as it relates to the nervous system and promotes research in this field. Scientific meetings are held from time to time.

EXECUTIVE COMMITTEE

Henry G. Schwartz..................................Chairman
George H. Bishop
James L. O'Leary

Advisory Member
Joseph Erlanger

Members

George H. Bishop
Hallowell Davis
Edwin F. Gildea
Arthur Gilson
Helen T. Graham

Peter Heinbecker
Sedgwick Mead
James L. O'Leary
Henry G. Schwartz
Harvey L. White

Ethel Ronzoni-Bishop
Archie D. Carr
Leonard T. Furlow
Joseph J. Gitt
Andrew B. Jones
Irwin Levy

George E. Roulhac
George Saslow
Gordon M. Schoepfle
David E. Smith
Margaret Smith
Samuel Warson

Assistants

Samuel A. Trufant
Gerald Winokur

DIVISION OF GERONTOLOGY

Gerontology and Geriatrics are subjects of increasing importance in the health and welfare of the people of the United States. The Division of Gerontology forms the staff of the hospital for the aged of the City of St. Louis (City Sanitarium), conducts a research laboratory at the hospital, and integrates teaching of the subject in the School of Medicine.

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

Executive Committee

John Esben Kirk..................................Chairman
Robert A. Moore
William B. Kountz
Staff at the St. Louis City Sanitarium from the School of Medicine

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

DIVISION OF TUMOR SERVICES

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

Executive Committee

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

DIVISION OF PHYSICAL MEDICINE

Sedgwick Mead, M.D...........................................Director
Alex Harell, M.D.............................................Assistant Director

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

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

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

IDA JORGENSEN FINKELNBURG AND EMMA JORGENSEN WERNSE LABORATORY OF CANCER RESEARCH

E. V. Cowdry, Ph.D. ......................................................... Director
Christopher Carruthers, Ph.D. ........................................ Research Associate
Eugene Roberts, Ph.D. .................................................... Research Associate
Theodore Rosenthal, Ph.D. ............................................... Research Associate
Valentina Suntzeff, M.D. ................................................ Research Associate

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

CHILD GUIDANCE CLINIC

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

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

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

Mr. Sam I. Goldman ....................................................... Chairman
Mrs. L. B. Tompkins ..................................................... Judge John Calhoun
Mr. John L. Bracken .................................................... Mr. Morris Lasky
Mr. Elwin R. Smith ..................................................... Dr. Borden Veeder

Dr. Robert A. Moore
ASSOCIATED INSTITUTIONS

The School of Medicine and other schools and colleges of the University have working agreements with several institutions which provide educational opportunities in the health field at both the undergraduate and graduate levels.

CENTRAL INSTITUTE FOR THE DEAF

The Central Institute for the Deaf, founded by Dr. Max Goldstein, is an institution for the instruction of the deaf and speech defects, for the training of teachers, and for research in the causes and treatment of deafness. For further information write the Director, Central Institute for the Deaf, 818 South Kingshighway, St. Louis 10, Missouri.

Administrative Officers for the Central Institute for the Deaf
Helen S. Lane, Ph.D..........................Principal of Central Institute
S. Richard Silverman, Ph.D..............Registrar, Teachers Training College

Staff on the Faculty of the School of Medicine
Hallowell Davis, M.D.............Research Professor of Otolaryngology and
Professor of Physiology
S. Richard Silverman, Ph.D...........Professor of Audiology

JEFFERSON BARRACKS VETERANS HOSPITAL

Under the hospital program of the Veterans Administration, Washington University School of Medicine and St. Louis University School of Medicine have joint responsibility for the professional care of patients in the Jefferson Barracks Veterans Hospital. The Deans' Committee, with representatives from the two schools, is in direct charge of the educational program.

Administrative Officers for the Veterans Administration
John W. Claiborne ..................................................Manager
L. E. Stillwell....................................................Clinical Director

Deans' Committee
For Washington University
Eugene Bricker
Robert Moore
Samuel Bukantz
Ernest H. Parsons

For St. Louis University
Ralph Kinsella
John Stewart
Melvin Casberg
Louis Kohler
Staff of the Hospital from Washington University

Consultants

Lauren V. Ackerman, Oncology
A. Norman Arneson, Radiation Therapy
Eugene Bricker, General Surgery
Thomas Burford, Thoracic Surgery
Louis T. Byars, Plastic Surgery
Adolph H. Conrad, Jr., Dermatology
Charles H. Eyermann, Allergy
Joseph Gitt, Neurology
Frederick Jostes, Orthopedic Surgery
Bruce Kenamore, Gastroenterology

Sedgwick Mead, Physical Medicine
James L. O'Leary, Neurology
Leroy Peterson, Oral Surgery
Paul Preisler, Biological Chemistry
Val B. Satterfield, Neuropsychiatry
Henry G. Schwartz, Neurological Surgery
Robert E. Votaw, Otolaryngology
Samuel Warson, Neuropsychiatry
Harvey L. White, Physiology
George J. L. Wulff, Jr., Obstetrics and Gynecology

Attending Physicians

Harry Agress, Laboratory
Robert W. Bartlett, General Surgery
Wilson Brown, Pathology
Justin Cordonnier, Urology
E. C. Holscher, Orthopedic Surgery
Robert C. Kingsland, Internal Medicine

Carl E. Lischer, General Surgery
Edward Lyman, Otolaryngology
Maurice Roche, Orthopedic Surgery
H. Rosenbaum, Ophthalmology
George E. Roulhac, Neurosurgery
Ernest Rouse, Internal Medicine
John Seddon, Internal Medicine

There are over sixty residencies in all specialties at the Veterans Hospital. For further information write: Secretary, Deans’ Committee, Jefferson Barracks Veterans Hospital, Jefferson Barracks 23, Missouri.
DIVISION OF AUXILIARY MEDICAL SERVICES

The Division of Auxiliary Medical Services of the School of Medicine provides instruction in the more important technical fields which are necessary to the physician in providing modern health care.

As with the educational program of the medical student, the Division of Auxiliary Medical Services is a joint enterprise of the School of Medicine and the affiliated hospitals—Barnes, Children's, McMillan, and Maternity Hospitals. As a matter of convenience some departments are administered by the School and others by the Barnes Hospital.

Departments conducted by the School of Medicine include Hospital Administration, Occupational Therapy, Orthoptic Technology, and Physical Therapy. Schools operated by the Barnes Hospital include Laboratory Technology, Medical Dietetics, and Anesthesiology. All of the courses are approved by the American Medical Association or other certifying agencies and graduates are admitted to examinations. For further information write the Director of the Department or School, Washington University School of Medicine, St. Louis 10, Missouri.

Other schools of the University providing instruction in related fields include the George Warren Brown School of Social Work and the School of Nursing. For further information write the Dean of the School.

DEPARTMENT OF HOSPITAL ADMINISTRATION
Frank R. Bradley, M.D. .......................................................... Director

A two-year course leading to a certificate or the degree of Master of Hospital Administration. The first year is given on the main campus of the University and at the School of Medicine, and includes courses in accounting and statistics, social work, public health, and hospital administration. The second year is spent in field work in an approved hospital. A degree is conferred on completion of a satisfactory thesis. Applicants must hold a bachelor's degree or be graduates of an approved school of medicine. Tuition: $400.00 for the first year and $200.00 for the second year. A matriculation fee of $5.00 will be charged on initial registration.

DEPARTMENT OF OCCUPATIONAL THERAPY
Erna L. Rozmarynowski, B.S., O.T.R. ........................................... Director

A three-year course leading to the degree of Bachelor of Science in Occupational Therapy is offered. During the first two years the student acquires knowledge of both the physical and mental aspects of disease and disabilities, familiarity with manual and creative activity media, and a basic understanding of how these are correlated to provide Occu-
pational Therapy measures. The student also becomes oriented to the role of Occupational Therapy as coordinated with various medical and social resources of rehabilitation. Curriculum includes: sciences such as anatomy, physiology, psychiatry, and neurology; clinical subjects such as general medical, orthopedic, and cardiac disease; interpretation of principles and practices of Occupational Therapy in specific areas of disabilities; technical instruction in manual and creative activities. The third year consists of ten months of hospital practice in approved clinical affiliation centers.

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

DEPARTMENT OF ORTHOPTIC TECHNOLOGY

Lawrence T. Post, M.D. ........................................... Director

An eight-months course leading to a certificate. The course is devoted to basic ophthalmology with emphasis on extraocular muscles and practical orthoptic techniques.

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

DEPARTMENT OF PHYSICAL THERAPY

Sedgwick Mead, M.D. ........................................... Director
Beatrice Schulz, A.B. ........................................... Technical Director

A two-year course for the training of physical therapy technicians, leading to a degree of Bachelor of Science in Physical Therapy. The program is presented to give the students a basic knowledge of normal human anatomy, physiology, and pathology so that they may be better prepared to apply physical therapy techniques. The various modalities of treatment used by physical therapy technicians are thoroughly studied by means of lecture, demonstration, and practical application.

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

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

SCHOOL OF MEDICAL TECHNOLOGY

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

A twelve-months course for the training of medical technologists leading to a certificate. The course includes theoretical and practical training in blood banking, clinical microscopy, tissue pathology, parasitology, bacteriology and serology, biological chemistry, electrocardiography, and basal metabolism.

Applicants must present at least two years of college training approved by the Registry of Medical Technologists, Muncie, Indiana. The tuition is $100.00 for the entire course.

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

SCHOOL OF DIETETICS

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

A twelve-months course for the training of dietitians leading to a certificate.

The course includes theoretical and practical training in food and personnel administration, food cost and control, diet therapy, Washington University Clinics, St. Louis Children's Hospital and teaching food and nutrition.

A bachelor's degree from an accredited college or university is required for admission. Certain courses in chemistry, biology, social science, education, foods, nutrition and dietetics, and institutional management are essential.

There is no tuition fee but a matriculation fee of $10.00 must be deposited as soon as an application is accepted.

DEPARTMENT OF ANESTHESIA

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

A twelve-months course for comprehensive special training in the practical administration of anesthetics by approved medical techniques, and the theory underlying their skilled administration. Upon satisfactory completion of the course, a certificate is awarded.

The theoretical aspect of the subject is covered by specific periods of organized instruction. Instruction in the practical administration of anesthetics takes place in the operating rooms, where at first the student observes, then administers anesthetics under an instructor's supervision, and eventually conducts complete anesthesias upon her own responsibility.

The course is open to graduates of accredited schools of nursing. The tuition is $100.00.
DEGREES CONFERRED AT COMMENCEMENT
June 7, 1949

DOCTOR OF MEDICINE

NAME — INTERNSHIP

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

Laurain, Alan Richard—Nashville General Hospital, Nashville, Tennessee
Lenzen, John Louis, A.B., B.S.—St. Louis City Hospital, St. Louis, Missouri
Levitt, Joseph—Letterman General Hospital, San Francisco, California
Lipschitz, Ervin—Barnes Hospital, St. Louis, Missouri
Livingston, Harry Hannan—University Hospitals, Cleveland, Ohio
London, Stanley Leonard—Barnes Hospital, St. Louis, Missouri
Luby, Elliot Donald, B.S.—Receiving Hospital, Detroit, Michigan
Lund, Robert Herluf—Barnes Hospital, St. Louis, Missouri
Lyle, Robert Raymond, A.B., B.S.—Kansas City General Hospital, Kansas City, Missouri
Magallon, Robert Adrien—Missouri Baptist Hospital, St. Louis, Missouri
McChesney, John Allen—St. Luke’s Hospital, San Francisco, California
McChesney, Margaret Burge, A.B.—Children’s Hospital, San Francisco, California
McGinty, Charles Patterson, A.B., B.S.—Barnes Hospital, St. Louis, Missouri
Medley, Keith Graham—St. Louis City Hospital, St. Louis, Missouri
Mellis, Richard Thomas—Presbyterian Hospital, Chicago, Illinois
Minnihan, Robert William—Tripler General Hospital, Honolulu, Hawaii
Moore, Robert—Cincinnati General Hospital, Cincinnati, Ohio
Munro, Gordon A.—University of Colorado Medical Center, Denver, Colorado
Norsa, Luigia, A.B., A.M.—Maimonides Hospital, Brooklyn, New York
O’Brien, John Franklin, B.S.—Receiving Hospital, Detroit, Michigan
Ohtani, John Mineo—St. Louis City Hospital, St. Louis, Missouri
Oleesky, Samuel—in absentia—no internship
Pearce, Eugene Walker James—Walter Reed Hospital, Washington, D. C.
Ferry, Eldon Turley—Henry Ford Hospital, Detroit, Michigan
Peterson, Shirley Jane, B.S.—St. Francis Hospital, Evanston, Illinois
Pinney, Edward Lowell, Jr., B.S.—St. Louis City Hospital, St. Louis, Missouri
Ramey, Ehret Oscar, B.S.—St. Luke’s Hospital, Kansas City, Missouri
Raso, Anthony James—St. Louis City Hospital, St. Louis, Missouri
Raymond, Bruce Allen, B.S.—University of Oregon Medical School Hospital and Clinic, Portland, Oregon
Reesler, Paul Jay, B.S.—St. Louis City Hospital, St. Louis, Missouri
Rokaw, Stanley Nathaniel, B.B.A.—Barnes Hospital, St. Louis, Missouri
Rosecan, Marvin—Barnes Hospital, St. Louis, Missouri.
Sargent, Harold John—Paterson General Hospital, Paterson, New Jersey
Schiele, Herbert Sigmund, Jr.—Robert Packer Hospital, Sayre, Pennsylvania
Schultz, Dale Metherd, A.B., M.S.—Barnes Hospital, St. Louis, Missouri
Settle, Beatrice Janet, A.B.—Colorado General Hospital, Denver, Colorado
Shelden, Russell Dallmeyer, A.B., B.S.—Kansas City General Hospital, Kansas City, Missouri
Sievers, Maurice Lathan, B.S.—United States Public Health Service, Norfolk, Virginia
Sizemore, Hiram, Jr., B.S.—Walter Reed Hospital, Washington, D. C.
Smith, Kathleen, B.S.—St. Louis City Hospital, St. Louis, Missouri
Smith, Sidney—Jewish Hospital, St. Louis, Missouri
Stein, Marvin—St. Louis City Hospital, St. Louis, Missouri
Stull, Fred Edward, Jr., B.S.—Oliver General Hospital, Augusta, Georgia
Sugioka, Kenneth, B.S.—University Hospital, Iowa City, Iowa
Sultzman, Lorraine Carl, B.S.—St. Louis City Hospital, St. Louis, Missouri
Thomasson, David Delzell, B.S.—St. Paul’s Hospital, Dallas, Texas
Vandergon, Keith Gordon—Minneapolis General Hospital, Minneapolis, Minnesota
NAME — INTERNSHIP

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

BACHELOR OF SCIENCE IN MEDICAL SCIENCE

Felton, Warren Locker II—Bartlesville, Oklahoma
Lipschitz, Ervin—St. Louis, Missouri
Rokaw, Stanley Nathaniel—Brooklyn, New York
Rosecan, Marvin—University City, Missouri
Stein, Marvin—St. Louis, Missouri
PRIZES AWARDED, 1948-49

Gill Prize in Anatomy
Peter Paul Rowell, B.S.

Gill Prize in Pediatrics
John Edward Hult

The Alpha Omega Alpha Book Prize
Stanley Nathaniel Rokaw, B.B.A.

The Borden Undergraduate Research Award
Milo Lawrence Heideman, Jr., A.B.

Sidney I. Schuab Book Prize in Psychiatry
Bertram Jay Oppenheimer, A.B.

Prize of the Medical Fund Society in Medicine
Stanley Nathaniel Rokaw, B.B.A.

Prize of the Medical Fund Society in Surgery
Man Hing Au, B.S., M.S.

Jackson Johnson Regional Scholarships
David Edward Davidoff
Laverne S. Erickson, B.S.
Bruce Dwight Fallis, A.B.
Charles F. Humphreys, B.S.
Lawrence Kahana, S.B.
Sidney F. Kahn
John M. Kissane, B.S.
Mary C. Langston, B.S., M.S.
Jule P. Miller, Jr., A.B.
Peter Paul Rowell, B.S.
Ronald Le Roy Scott
Jessie Ternberg, A.B.
Harvey Walker, Jr., B.S., Ph.D.
Doris Evelyn Wilson, B.S.
REGISER OF STUDENTS
FOURTH-YEAR CLASS (1949-50)

Adams, Walter Crawford, Jr., B.S., Univ. of Ark., '46—Pebble Beach, California
Advocate, Seymour, A.B., Brooklyn Coll., '37; M.A., Univ. of Ill., '38—Brooklyn,
New York
Barbour, Victor Hill, B.S., Univ. of Idaho, '42—Moscow, Idaho
Becker, Melvin Harry A.B., Washington University, '44; B.S., University of Mis-
souri, '46—St. Louis, Missouri
Berman, Joseph Smith, A.B., Washington Univ., '45—St. Louis, Missouri
Bock, Charlotte Elizabeth, A.B., Washington Univ., '47—St. Louis, Missouri
Borenstein, Milton Kelter, A.B., '41; M.A., '47, University of South Dakota—
Vermillion, South Dakota
Brennan, Patricia Anne, B.A., B.S., Univ. of Texas, '46—Laredo, Texas
Bronfenbrenner, Alice, A.B., Bryn Mawr Coll., '46—St. Louis, Missouri
Brown, Elmer Burrell, Jr., A.B., Oberlin Coll., '46—Richmond Heights, Missouri
Burcham, Thomas Addison, Jr., B.A., Drake Univ., '47—Des Moines, Iowa
Burchiel, Robert Danner—San Jose, California
Caldwell, Fred Thomas, Jr., B.S., Baylor Univ., '46—Ashdown, Arkansas
Cariss, Margaret Loraine, B.S., University of Missouri, '48—Granite City, Illinois
Catanzaro, Rudolph Edward, A.B., Washington Univ., '49—St. Louis, Missouri
Chambers, William Norman—San Antonio, Texas
Comens, Ruth Gerf, B.S., University of Missouri, '48—St. Louis, Missouri
Davis, Edwin, B.S., University of Texas, '40—Fort Worth, Texas
Dunseeh, Robert Edward, B.S., University of Missouri, '48—Stanberry, Missouri
Eagletont, Mark David, A.B., Amherst Coll., '46—St. Louis, Missouri
Eberlin, Eugene William, A.B., '47; B.S., '48, University of Missouri—Hermann,
Missouri
Echols, Robert Bruce, Maplewood, Missouri
Emura, Edward Takeichi, B.S., Univ. of Hawaii, '45—Honolulu, T. H.
Engelking, David Frederick, A.B., Cornell Univ., '46—Lanark, Illinois
Epp, Milford J.—Henderson, Nebraska
Epley, Mauri, A.B., Washington Univ., '49—St. Louis, Missouri
Finger, Donald Harvey, A.B., Washington Univ., '49—St. Louis, Missouri
Fuller, Roger Lee, B.S., Murray State Teachers Coll., '42—Louisville, Kentucky
Gabriol, Wesley F., B.A., Pacific Lutheran Coll., '40; M.S., Univ. of Mich., '46—
Tacoma, Washington
Goldstein, Albert, S.B., Univ. of Chicago, '42—Chicago, Illinois
Gray, Helen Marie, A.B., Vassar Coll., '46—Clayton, Missouri
Hebert, William M., A.B., Fresno State Coll., '45—Fresno, California
Heinrichsmeier, Ann Marie, A.B., Washington Univ., '49—St. Louis, Missouri
Henry, John Kelly, B.S., Mississippi Coll., '47—Magee, Mississippi
Henry, Louie Crum—Water Valley, Mississippi
Howard, Frank Albert, B.A., University of Kansas, '47—Enid, Oklahoma
Hurst, Peter Leopold—Orange, New Jersey
Iwano, Joseph Hifouo, A.B., Washington Univ., '46—Honolulu, T. H.
James, Norman Alva, B.S., Central Mo. St. Teachers Coll., '43—Vienna, Missouri
King, Thomas Lee, B.A., Trinity Univ., '48—San Antonio, Texas
Kiser, John Remy, A.B., Univ. of California, '47; B.S., Univ. of Missouri, '48—
Imola, California
Krahenbuhl, Marcella May, A.B., Univ. of Kansas City, '46—Kansas City, Mo.
Lederer, Charles Marshall, B.S., Central Mo. St. Coll., '47—Fort Lupton, Colorado
Livingston, Harriette Lutz, B.A., Univ. of Colo., '46—Augusta, Kansas
Livingston, Shields Osceo, B.S., Central Mo. St. Teachers Coll., '46—Pleasant Hill,
Missouri
<table>
<thead>
<tr>
<th>Name</th>
<th>School/Program</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lonsway, Maurice Julius, Jr.</td>
<td>A.B., Washington Univ.</td>
<td>Richmond Heights, Missouri</td>
</tr>
<tr>
<td>Lowrey, Daniel Bernard, B.S.</td>
<td>Howard College</td>
<td>Birmingham, Alabama</td>
</tr>
<tr>
<td>March, Jack Franklin</td>
<td>Chattanoogo, Tennessee</td>
<td></td>
</tr>
<tr>
<td>Margetts, Lester Harold, Jr.</td>
<td>Univ. of Mont.</td>
<td>Missoula, Montana</td>
</tr>
<tr>
<td>Meyer, Walter L.</td>
<td>Jacksonville, Illinois</td>
<td></td>
</tr>
<tr>
<td>Mills, James DeWitt, Jr.</td>
<td>St. Louis, Missouri</td>
<td></td>
</tr>
<tr>
<td>O'bourn, Robert Lyle, A.B.</td>
<td>Washington Univ.</td>
<td>St. Louis, Missouri</td>
</tr>
<tr>
<td>O'Keefe, Joseph Damon, A.B.</td>
<td>Univ. of Colorado</td>
<td>Clayton, Missouri</td>
</tr>
<tr>
<td>Oppenheimer, Bertram Jay, A.B.</td>
<td>Cornell Univ.</td>
<td>New York</td>
</tr>
<tr>
<td>Patterson, Juanita Mae, B.S.</td>
<td>State Coll. of Washington</td>
<td>Pullman, Wash.</td>
</tr>
<tr>
<td>Payne, Meredith, A.B., Washington Univ.</td>
<td>St. Louis, Missouri</td>
<td></td>
</tr>
<tr>
<td>Payne, William Spencer</td>
<td>St. Louis, Missouri</td>
<td></td>
</tr>
<tr>
<td>Pfeffer, Robert L.</td>
<td>White Plains, New York</td>
<td></td>
</tr>
<tr>
<td>Puls, Richard John, B.A.</td>
<td>University of Texas</td>
<td>Fort Worth, Texas</td>
</tr>
<tr>
<td>Ramsey, Lloyd Hamilton, B.S.</td>
<td>Univ. of Kentucky</td>
<td>Lexington, Kentucky</td>
</tr>
<tr>
<td>Reid, Newton Howard, A.B.</td>
<td>Washington Univ.</td>
<td>Oswego, New York</td>
</tr>
<tr>
<td>Reister, Dorothy Dailey, B.A.</td>
<td>DePauw Univ.</td>
<td>Charlotte, Michigan</td>
</tr>
<tr>
<td>Rochman, Robert, A.B.</td>
<td>Washington Univ.</td>
<td>St. Louis, Missouri</td>
</tr>
<tr>
<td>Rodgers, Dorothy Llewellyn, A.B.</td>
<td>West Virginia Univ.</td>
<td>Morgantown, West Virginia</td>
</tr>
<tr>
<td>Rukes, Junior Max, A.B.</td>
<td>Ind. St. Teachers Coll.</td>
<td>Rosedale, Indiana</td>
</tr>
<tr>
<td>Sharrota, Joseph Vincent, B.S.</td>
<td>Western Reserve Univ.</td>
<td>Cleveland, Ohio</td>
</tr>
<tr>
<td>Skerbeck, Frank Joseph, B.S.</td>
<td>State Teachers Coll.</td>
<td>Spooner, Wisconsin</td>
</tr>
<tr>
<td>Stewart, Robert Bell, A.B.</td>
<td>Univ. of Mo.</td>
<td>Springfield, Missouri</td>
</tr>
<tr>
<td>Streeter, Ralph Thomas</td>
<td>Superior, Wisconsin</td>
<td></td>
</tr>
<tr>
<td>Thomasson, Robert Edgar, B.S.</td>
<td>Drury Coll.</td>
<td>Bolivar, Missouri</td>
</tr>
<tr>
<td>Vineyard, William R.</td>
<td>Nevada, Missouri</td>
<td></td>
</tr>
<tr>
<td>Wagner, Robert Harris, A.B.</td>
<td>'47; B.S.</td>
<td>University of Missouri</td>
</tr>
<tr>
<td>Walters, John H.</td>
<td>St. Louis, Missouri</td>
<td></td>
</tr>
<tr>
<td>Warner, John Ketchum</td>
<td>St. Louis, Missouri</td>
<td></td>
</tr>
<tr>
<td>Weible, David Murray, B.S.</td>
<td>University of North Dakota</td>
<td>Fargo, North Dakota</td>
</tr>
<tr>
<td>Wells, James Monierf, Jr.</td>
<td>Leakesville, Mississippi</td>
<td></td>
</tr>
<tr>
<td>Wetzel, Gloria Jean, B.S.</td>
<td>State Coll. of Washington</td>
<td>Moxee City, Washington</td>
</tr>
<tr>
<td>Wibbels, Howard Lawrence, A.B.</td>
<td>Univ. of Mo.</td>
<td>St. Louis, Missouri</td>
</tr>
<tr>
<td>Wynder, Ernest Ludwig, B.A.</td>
<td>New York Univ.</td>
<td>Irvington, New Jersey</td>
</tr>
<tr>
<td>Yaeger, Gerald A., B.S.</td>
<td>Northwestern Univ.</td>
<td>St. Louis, Missouri</td>
</tr>
</tbody>
</table>

**Total, 85**

---

**THIRD-YEAR CLASS (1949-50)**

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

---

**Total, 85**
Chou, Yen-ping—Kunming, China
Comens, Phillip, B.S., Univ. of Missouri, '49—St. Louis, Missouri
Cunningham, James B., A.B., University of Southern California, '47—Amarillo, Texas
Cutter, James A.—Webster Groves, Missouri
Deffler, Kathryn M., B.A., University of Colorado, '45—La Porte, Colorado
Dickerman, Joseph A., A.B., Culver-Stockton Coll., '40; B.S., Univ. of Mo., '49—St. Louis, Missouri
Dorrough, Robert L.—Birmingham, Alabama
Doucett, John Dewey, Jr., A.B., Univ. of N. C, '47—Ridgewood, New Jersey
Dunlevy, James H., A.B., State University of Iowa, '47—Fargo, North Dakota
Evanson, Edward S.—Sherman, South Dakota
Faw, Melvin L.—Topeka, Kansas
Federabend, Theodore C.—St. Louis, Missouri
Foster, Eugene A., A.B., Washington University, '47—New York, New York
Fulkerson, Wilbur E.—St. Louis, Missouri
Gay, Elizabeth Kirkbride, B.S., '39; M.S., '41, University of Oklahoma—St. Louis, Missouri
Gaylor, Walter R., A.B., Washington University, '47—Cape Girardeau, Missouri
German, Walter A., Jr., A.B., Washington University, '47—Jefferson Barracks, Missouri
Gess, Lowell A., B.A., Macalester Coll., '42—Nerstrand, Minnesota
Goldstein, Marcy A.—St. Louis, Missouri
Gote, George—Makaweli, Kauai, T.H.
Gratz, Raymond Joseph—Jefferson City, Missouri
Grunwaldt, Edgar—Buenos Aires, Argentina
Guz, Lucien B.—Bronx, New York
Haddox, Austin W.—Pawnee, Oklahoma
Haley, Jack A., B.S., Univ. of Missouri, '49—Sedalia, Missouri
Harris, Forest D.—Overland, Missouri
Hartmann, Alexis F., Jr.—University City, Missouri
Hendrix, Charles E.—Petersburg, Indiana
Hetlage, Louis P., A.B., De Pauw Univ., '47; B.S., Univ. of Missouri, '49—St. Louis, Missouri
Holmes, David Reed, B.S., Southwest Missouri State Teachers Coll., '42—Springfield, Missouri
Holtz, Alan S., A.B., '47; B.S., '49, Univ. of Missouri—Kirkwood, Missouri
Hosford, Henry C.—Las Vegas, New Mexico
Hunt, Margaret Ann, A.B., Washington University, '47—De Witt, Arkansas
Izmirlian, Grant—Pasadena, California
Jannings, Charles J., III., A.B., Washington University, '47—Union, Missouri
Johnson, Walfred W., B.A., Montana State University, '47—Missoula, Montana
Kahn, Sidney F.—Memphis, Tennessee
Kappesser, Roland C., A.B., Washington University, '47—University City, Missouri
Kirkpatrick, Wendell C.—Madison, Wisconsin
Knowles, John H., A.B., Harvard University, '47—West Los Angeles, California
Krietmeyer, George R.—Normandy, Missouri
Leong, James Tim—Honolulu, T. H.
Levin, Marvin E.—St. Louis, Missouri
Mason, Arthur D., Jr.—Tulsa, Oklahoma
Mason, James C., B.S., U. S. Naval Academy, '43—Trinidad, Colorado
McGavran, Elizabeth L.—Chapel Hill, North Carolina
McNalley, Michael A., B.A., Washington University, '47—Clayton, Missouri
Mendenhall, Max, B.S., University of California, '41—Upper Lake, California
Morgan, Jack N., B.S., Southern Methodist University, '47—Dallas, Texas
Morgan, Volney C., B.A., Pacific Union College, '46—Los Angeles, California
Mullen, Jack, B.S., University of Missouri, '49—Jefferson City, Missouri
Neuenschwander, John R.—East St. Louis, Illinois
Nichols, Charles Edward—St. Louis, Missouri
THE SCHOOL OF MEDICINE

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

Total, 104

SECOND-YEAR CLASS (1949-50)

Allbaugh, Robert Dean, B.S., Iowa State College, '48—Ames, Iowa
Anderson, Eric Ion—Stroudsburg, Pennsylvania
Anson, Cecil Ray, A.B., Southwest Missouri State College, '48—Springfield, Missouri
Ballew, John William—Lincoln, Nebraska
Blakely, Robert Wyatt, A.B., Culver-Stockton College, '48—Canton, Missouri
Blakely, William Neal—Mayfield, Kentucky
Bradley, Richard Vernon—St. Louis, Missouri
Bruverman, Abe Elliot, A.B., Washington University, '48—St. Louis, Missouri
Brown, George Walter, A.B., University of California at Los Angeles, '45—Coolidge, Arizona
Bunch, Rob Royce—Champaign, Illinois
Cady, Gerald William—Mason City, Iowa
Clippinger, Frank Warren II, A.B., Drury College, '48—Springfield, Missouri
Cole, William Robert—St. Louis, Missouri
Commons, Jerrold Page—Stockton, California
Copp, Ralph, Jr., A.B., Washington University, '48—St. Louis, Missouri
Davidoff, David Edward—Milwaukee, Wisconsin
Davidson, John Dee, A.B., Washington University, '48—Ferguson, Missouri
Dell' Aria, Salvatore A.—East Boston, Massachusetts
Demman, John Laughlin, B.S., University of Oklahoma, '48—Oklahoma City, Oklahoma
Enggas, John Thomas—Linden, Missouri
Fallis, Bruce Dwight, A.B., Texas Christian University, '48—Ft. Worth, Texas
Frederick, Raymond Oscar—St. Louis, Missouri
Gilden, Jerome Julius, A.B., Washington University, '48—St. Louis, Missouri
Hawkins, Lee Wyeth—St. Louis, Missouri
Hees, Howard, A.B., Washington University, '48—Bronx, New York
Holmberg, Arthur Eugene—Coeur d'Alene, Idaho
Hoover, William Dale—Moscow, Idaho
Jonas, Harry Sig., Jr.—Kirksville, Missouri
Karsh, Robert Stanley—St. Louis, Missouri
Katz, Marvin Alan, A.B., Washington University, '48—St. Louis, Missouri
King, Francis Craig, B.M.E., Cornell University, '45—Washington, D.C.
Kissane, John Michael, A.B., University of Rochester, '48—Pocatello, Idaho
Lansche, James McLaren, A.B., Washington University, '48—St. Louis, Missouri
Lansche, Walter Edward, A.B., Washington University, '48—St. Louis, Missouri
Larson, Paul Urban, A.B., Washington University, '48—St. Louis, Missouri
Lau, Sun Hing, A.B., Washington University, '48—Wahiawa, Oahu, Hawaii
Lewis, Malcolm Richard, A.B., Washington University, '48—Webster City, Iowa
Lieberman, Amos Hiriam, A.B., Columbia University, '48—Brooklyn, New York
Lieso, Grover Julian—St. Louis, Missouri
Liljedahl, Nancy, A.B., University of California at Los Angeles, '46—Los Angeles, California
Luecke, Percy Edgar, Jr., B.S., Southern Methodist University, '48—Dallas, Texas
Markowitz, Alfred Morris, A.B., New York University, '49—Brooklyn, New York
McCallum, James David—Pawtucket, Rhode Island
McGinnis, Albert Eugene, A.B., Miami University, '43—Covington, Kentucky
Miller, Charles, Jr., B.S., Iowa State College, '48—Ames, Iowa
Nambu, Albert Takeshi, B.A., University of California at Los Angeles, '48—Redondo Beach, California
Oliver, George Allen—Richland, Missouri
Parker, Brent Mershon—Webster Groves, Missouri
Peterson, Albert Frederick, B.S., University of Wisconsin, '48—Milwaukee, Wisconsin
Porter, John Hart, III, A.B., Harvard University, '48—St. Louis, Missouri
Pronko, Robert Carrington, B.S., Drury College, '43—St. Louis, Missouri
Rachlin, Bernard—Philadelphia, Pennsylvania
Robins, Bernard, B.A., Rutgers University, '48—Newark, New Jersey
Roe, John Hayden—Bettsville, Ohio
Rowell, Peter Paul, B.S., University of Idaho, '47—Moscow, Idaho
Ryan, Dana Charles, Jr.—Pawnee, Oklahoma
Salser, Harold Alden, A.B., University of Wichita, '48—Wichita, Kansas
Schachter, Sherman Oliver, A.B., Washington University, '48—Miami Beach, Florida
Schulte, John Walter—Curundu, Canal Zone
Scott, Ronald LeRoy—Portland, Oregon
Shapiro, Robert Sidney, A.B., Washington University, '48—New York, New York
Siebert, Paul Edward, A.B., Washington University, '48—St. Louis, Missouri
Starrett, David Edward—Seattle, Washington
Stover, Wilbur Henry, A.B., Washburn University, '47—Mobridge, South Dakota
Strachan, James Boyd, Jr.—Hot Springs, Arkansas
Susman, Noah—St. Louis, Missouri
Talpey, William Blight—Auburn, New York
Thorpe, John Donald—Twin Falls, Idaho
Talus, Jack L., B.S., University of Notre Dame, '48—South Bend, Indiana
Trunnell, Eugene Eric—Kirkville, Missouri
Washburn, Stephen Louis—Waban, Massachusetts
Weiss, Richard Herbert—Saginaw, Michigan
Wellhouse, James Lansing, A.B., State University of Iowa, '48—Ames, Iowa
Wilson, Doris Evelyn, B.S., State College of Washington, '48—Wapato, Washington
Windsor, Richard Browning, A.B., Princeton University, '48—Point Pleasant, West Virginia

Total, 80

FIRST-YEAR CLASS (1949-50)

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

<table>
<thead>
<tr>
<th>Class</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fourth-Year Class</td>
<td>85</td>
</tr>
<tr>
<td>Third-Year Class</td>
<td>104</td>
</tr>
<tr>
<td>Second-Year Class</td>
<td>80</td>
</tr>
<tr>
<td>First-Year Class</td>
<td>87</td>
</tr>
</tbody>
</table>

Total, 356
## INDEX

<table>
<thead>
<tr>
<th>Admission</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entrance Requirements</td>
<td>87</td>
</tr>
<tr>
<td>of Graduates in Medicine</td>
<td>90</td>
</tr>
<tr>
<td>with Advanced Standing</td>
<td>89</td>
</tr>
<tr>
<td>Anatomy</td>
<td>104</td>
</tr>
<tr>
<td>Anesthesia</td>
<td>163</td>
</tr>
<tr>
<td>Assistant Professors</td>
<td>15</td>
</tr>
<tr>
<td>Assistants</td>
<td>31</td>
</tr>
<tr>
<td>Associate Professors</td>
<td>13</td>
</tr>
<tr>
<td>Auxiliary Medical Services</td>
<td>161</td>
</tr>
<tr>
<td>Bacteriology and Immunology</td>
<td>106</td>
</tr>
<tr>
<td>Barnes Hospital</td>
<td>50</td>
</tr>
<tr>
<td>Biological Chemistry</td>
<td>108</td>
</tr>
<tr>
<td>Buildings, Description</td>
<td>84</td>
</tr>
<tr>
<td>Calendar</td>
<td>5</td>
</tr>
<tr>
<td>Cancer Research, Laboratory of</td>
<td>158</td>
</tr>
<tr>
<td>Central Institute for the Deaf</td>
<td>159</td>
</tr>
<tr>
<td>Child Guidance Clinic</td>
<td>158</td>
</tr>
<tr>
<td>Children's Hospital</td>
<td>63</td>
</tr>
<tr>
<td>Clinics</td>
<td>68</td>
</tr>
<tr>
<td>Committees</td>
<td>48</td>
</tr>
<tr>
<td>Conjoint Medicine</td>
<td>103</td>
</tr>
<tr>
<td>Corporation, University</td>
<td>6</td>
</tr>
<tr>
<td>Degrees, Conferred</td>
<td>164</td>
</tr>
<tr>
<td>Degrees, Requirements</td>
<td></td>
</tr>
<tr>
<td>Doctor of Medicine</td>
<td>91</td>
</tr>
<tr>
<td>B.S. in M.S.</td>
<td>91</td>
</tr>
<tr>
<td>A.B. (combined)</td>
<td>92</td>
</tr>
<tr>
<td>Departments of Instruction</td>
<td>104</td>
</tr>
<tr>
<td>Dermatology</td>
<td>117</td>
</tr>
<tr>
<td>Dietetics</td>
<td>163</td>
</tr>
<tr>
<td>Dormitory</td>
<td>100</td>
</tr>
<tr>
<td>Emeriti</td>
<td>9</td>
</tr>
<tr>
<td>Enrollment, Summary</td>
<td>174</td>
</tr>
<tr>
<td>Entrance Requirements</td>
<td>87</td>
</tr>
<tr>
<td>Expenses</td>
<td>100</td>
</tr>
<tr>
<td>Faculty</td>
<td>9</td>
</tr>
<tr>
<td>Fees and Expenses</td>
<td>99</td>
</tr>
<tr>
<td>Fellows</td>
<td>43</td>
</tr>
<tr>
<td>Fellowships</td>
<td>94</td>
</tr>
<tr>
<td>Gerontology</td>
<td>156</td>
</tr>
<tr>
<td>Health Service</td>
<td>99</td>
</tr>
<tr>
<td>Historical Statement</td>
<td>83</td>
</tr>
<tr>
<td>Hospital Administration, Department of</td>
<td></td>
</tr>
<tr>
<td>Hospitals, Affiliated</td>
<td>161</td>
</tr>
<tr>
<td>Barnes</td>
<td>50</td>
</tr>
<tr>
<td>McMillan</td>
<td>59</td>
</tr>
<tr>
<td>St. Louis Children's Hospital</td>
<td>63</td>
</tr>
<tr>
<td>St. Louis Maternity</td>
<td>57</td>
</tr>
<tr>
<td>Hospitals and Laboratories</td>
<td>85</td>
</tr>
<tr>
<td>Instruction</td>
<td></td>
</tr>
<tr>
<td>Departments</td>
<td>103</td>
</tr>
<tr>
<td>General Plan</td>
<td>101</td>
</tr>
<tr>
<td>Staff</td>
<td>9</td>
</tr>
<tr>
<td>Instructors</td>
<td>22</td>
</tr>
<tr>
<td>Intern Appointments</td>
<td>92</td>
</tr>
<tr>
<td>Internal Medicine</td>
<td>109</td>
</tr>
<tr>
<td>Jefferson Barracks Veterans Hospital</td>
<td></td>
</tr>
<tr>
<td>Joint Medical Board</td>
<td>159</td>
</tr>
<tr>
<td>Lecturers</td>
<td>42</td>
</tr>
<tr>
<td>Lectureships</td>
<td>87</td>
</tr>
<tr>
<td>Library</td>
<td>87</td>
</tr>
<tr>
<td>Loans</td>
<td>94</td>
</tr>
<tr>
<td>Maternity Hospital</td>
<td>57</td>
</tr>
<tr>
<td>McMillan Hospital</td>
<td>59</td>
</tr>
<tr>
<td>Medical Center</td>
<td></td>
</tr>
<tr>
<td>Hospitals and Laboratories</td>
<td>85</td>
</tr>
<tr>
<td>Staff</td>
<td>50</td>
</tr>
</tbody>
</table>
Medical Jurisprudence 152
Medical Technology 163
Medicine, Internal 109
Military Science and Tactics 152
Neurology, Institute of 156
Neuropsychiatry 118
Obstetrics and Gynecology 124
Occupational Therapy 161
Officers, Affiliated Hospitals (See Hospitals, Affiliated)
Officers, Medical School Administration 9
Instruction 9
Other 49
Officers, University 7
Ophthalmology 128
Orthoptic Technology 162
Otolaryngology 130
Pathology 132
Pediatrics 135
Pharmacology 138
Physical Medicine, Division of 157
Physical Therapy 162
Physiology 139
Postgraduate Studies 154
Preventive Medicine 140
Prizes
Offered 93
Awarded 167
Professors 10
Promotion 90
Psychosomatic Medicine, Division of 158
Public Health 140
Radiology 143
Refunds 100
Register of Students 168
Registration 99
Research Associates 21
St. Louis Children’s Hospital 63
St. Louis City Hospitals 76
St. Louis Maternity Hospital 57
Scholarships 94
Social Service Department 68
Standing and Promotion 90
Students, Register of 168
Surgery 145
Tuition 99
Tumor Services, Division of 157
Veterans Hospital, Jefferson Barracks 159
Washington University Clinics 68
Withdrawals and Refunds 100
PUBLICATIONS OF WASHINGTON UNIVERSITY

Series II. THE BULLETINS. This series includes the Bulletins of the College of Liberal Arts, the School of Engineering, the School of Architecture, the School of Business and Public Administration, the School of Social Work, the Henry Shaw School of Botany, the Graduate School of Arts and Sciences, the School of Law, the School of Medicine, the School of Dentistry, the School of Nursing, the School of Fine Arts, University College, and the Summer School.

Series IV. WASHINGTON UNIVERSITY STUDIES. From July, 1913, to April, 1926, the Washington University Studies were published as a quarterly periodical, two numbers of which were devoted to the humanistic and two to the scientific fields. They now appear at indefinite intervals as monographs in the three following classes: Language and Literature, Science and Technology, Social and Philosophical Sciences.

Series V. WASHINGTON UNIVERSITY DOCTORAL DISSERTATIONS. This series contains dissertations accepted in partial fulfillment of the requirements for the degree of Doctor of Philosophy.

BOARD OF PUBLICATION

Thomas Shearer Duncan, Ph.D. . . . Chairman, General Editor
Annie Louise Carter . . . . . . . Associate Editor, Washington University Studies
Arnold Johnson Lien, Ph.D. . . .
Robert Everard Woodson, Jr., Ph.D. . . . Editors of Washington University Studies
Alexander McIntosh Buchan, A.M. .
Ralph Paul Bieber, Ph.D. . . . . .