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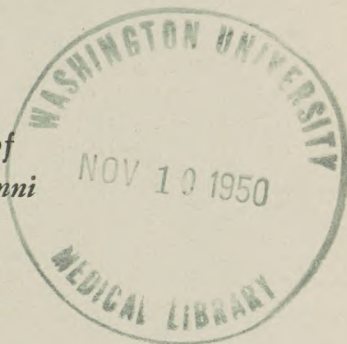
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WASHINGTON UNIVERSITY
MEDICAL ALUMNI
QUARTERLY



*Published in the Interest of
the University and the Alumni*



- Hyperplasia of the Endometrium, Its Relationship to Hypertrophy and Hyperplasia of the Uterine Vessels
Otto H. Schwarz, M.D., and Alfred Sherman, M.D.
- New Building Occupied
- Nine Sons of Alumni Enter Medical School

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NO. 1

HYPERPLASIA OF THE ENDOMETRIUM, ITS
RELATIONSHIP TO HYPERTROPHY AND
HYPERPLASIA OF THE UTERINE VESSELS*†

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St. Louis, Mo

From the Department of Obstetrics and Gynecology, Washington University School of Medicine

This study, one of the last carried out by Dr. Schwarz before his death, is republished in the *Alumni Quarterly* in lieu of the usual obituary notice as a living testimonial of his contributions to science and of the high regard in which he was held by alumni, students, and faculty.

In reviewing a series of sections from the uterus, including the entire thickness of endometrium and peritoneum, in search of early development of myomas from uterine blood vessels, it was noted in passing that whenever we encountered a marked case of hyperplasia of the endometrium, there was an accompanying hypertrophy and hyperplasia of the uterine arteries, especially marked in the lower middle third of the uterine wall.

The sections showing hyperplasia were set aside as they were encountered for the purpose of study in detail of this interesting relationship. In the description of hyperplasia of the endometrium in the standard textbooks, the pathological descriptions refer in most

instances only to the endometrium itself, particularly the character of the glands and stroma. No special remarks are made concerning the hypertrophic condition of the uterine wall and no definite references to the hypertrophy and hyperplasia of the vessels. Some 200 specimens were set aside in which the hyperplasia of the endometrium was quite striking to very marked. In general, every one of these specimens shows definite hypertrophy and hyperplasia of the vessels of the lower middle third as well as the inner third. In order to evaluate these changes we studied a series of uteri which were not excessively enlarged and which also had no accompanying hyperplasia of the endometrium. Our findings here were

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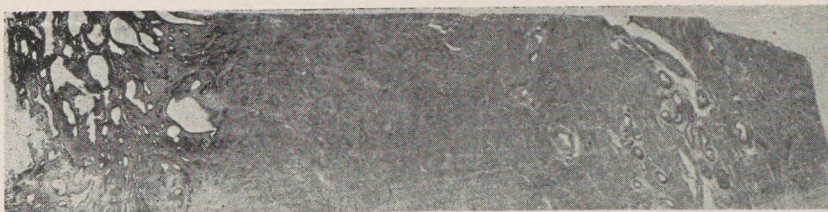


Fig. 1. Marked hyperplasia of endometrium (Swiss-cheese pattern). Hypertrophy of uterine wall. Hypertrophy and hyperplasia of blood vessels, especially outer two-fifths.

that the picture of the uterine circulation as a whole is somewhat variable. In some instances we could determine what we call a normal pattern, i.e., the vessels of the lower endometrium were very small, the vessels of the inner third moderate in size with comparatively few nuclei in the media of the wall, and in the lower middle third usually no activity was seen. Occasionally we would see a definite tendency for these lower vessels to be stimulated to some degree but in no instance as markedly as in the average case of hyperplasia.

We immediately concluded that in studying the character of these vessels the question of the parity of the individual had to be considered because we were well aware of the fact that in parous uteri, which show evidence of marked chronic subinvolution in the circulatory system, they are different in character from those in a nulliparous uterus. It was found that, whether the vessels were in nulliparous, primiparous, or multiparous individuals, the abnormal stimulation which we think is due to estrogen and progesterone in combination produces the same picture, regardless of the original condition of the vessels.

In discussing these findings with Novack of Baltimore, he suggested study-

ing the condition of the vessels from the endometrium in these cases. In other words, to see whether this hypertrophy and hyperplasia are present there as well. This was done, and we can emphatically state that it is in many instances quite conspicuous but by no means in all.

In order to bring out the points of similarity of the lesions of the vessels in various types of uteri, we are including a tabulation (Tables I, II, and III) of 50 specimens divided between nulliparous, primiparous, and multiparous specimens. In these tables, it is interesting to note that the vessels of the lower middle third all showed excessive hypertrophy and hyperplasia, and with few exceptions the whole uterus was enlarged. It made no difference whether there were no myomas in the uterus, or there was chronic subinvolution. The arteries of the inner third were markedly hypertrophic and hyperplastic with few exceptions and, in the remainder, the changes were still definitely striking. In considering the condition of the vessels of the endometrium itself, it was supposed that, if these vessels were enlarged, it might be due to a residual condition of repeated pregnancies, but in the cases reviewed this is clearly not the case. The most striking increase in

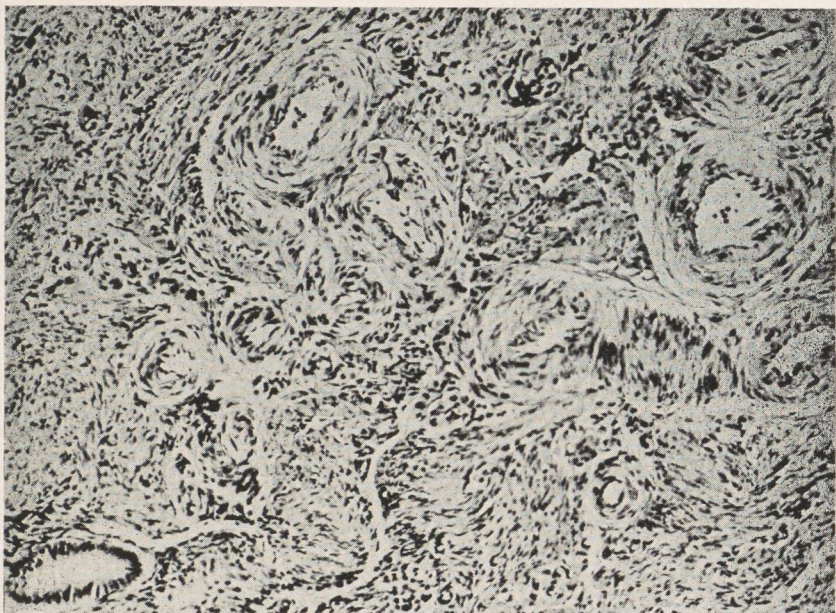


Fig. 2

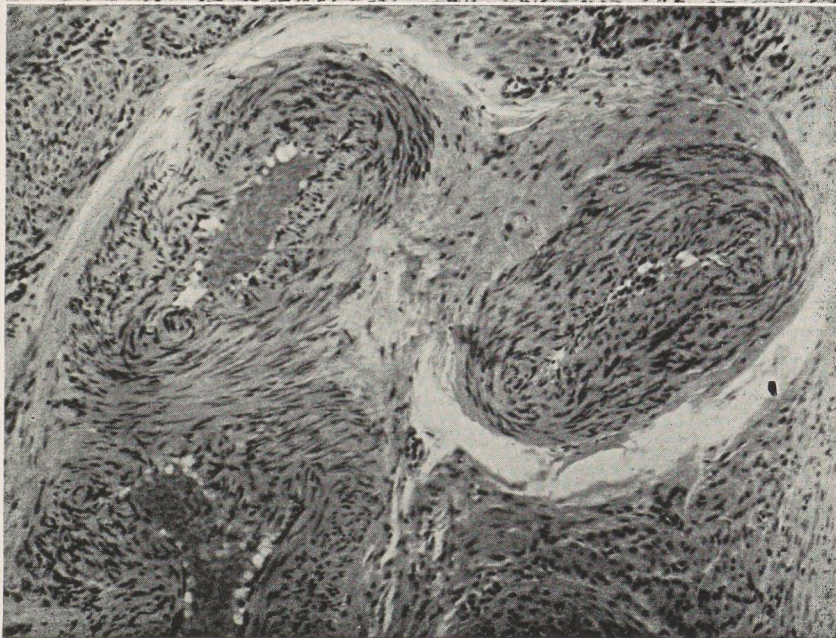


Fig. 3

Fig. 2. Blood vessels of inner third of uterus. Hypertrophy and hyperplasia, with thickened media and increased cell content.

Fig. 3. Lower middle third of uterus. Higher power of Fig. 1. Hypertrophy and hyperplasia of arteries.

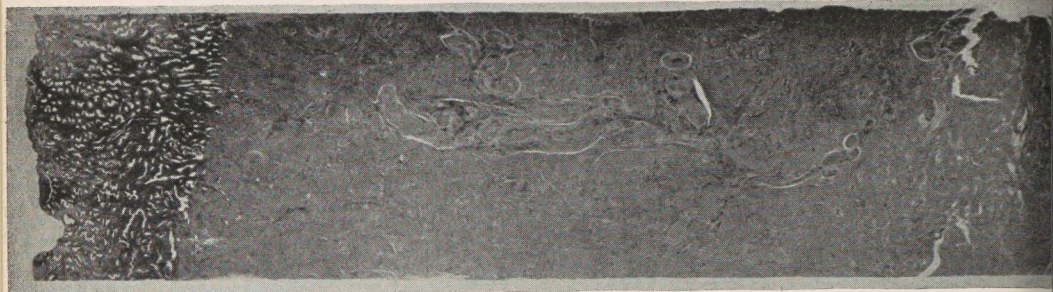


Fig. 4. Marked hyperplasia of endometrium (glandular pattern). Hypertrophy of uterus. Hypertrophy and hyperplasia of blood vessels, especially of the middle third.

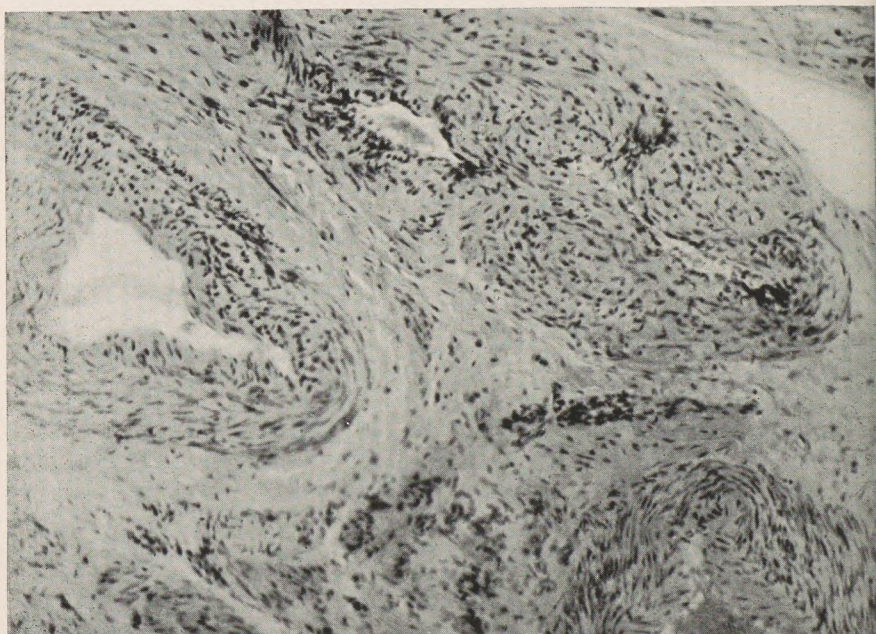


Fig. 5. Middle third of uterus. Higher power of Fig. 4. Hypertrophy and hyperplasia of blood vessels.

TABLE I. HYPERTROPHY AND HYPERPLASIA OF UTERINE VESSELS IN CASES OF HYPERPLASIA OF THE ENDOMETRIUM
NULLIPAROUS UTERI

CASES	VESSELS		
	ENDOMETRIUM	INNER THIRD OF UTERUS	LOWER MIDDLE THIRD OF UTERUS
1	1	2	3
2	1	2	3
3	3	3	3
4	3	3	3
5	3	2	3
6	3	3	3
7	2	3	3
8	2	3	3
9	1	3	3
10	3	3	3
11	2	3	3
12	1	3	3
13	2	3	3
14	2	3	3
15	3	3	3

Key to Chart:

- 1, Definite hyperplasia and hypertrophy.
- 2, Marked hyperplasia and hypertrophy.
- 3, Very marked hyperplasia and hypertrophy.

TABLE II. HYPERTROPHY AND HYPERPLASIA OF UTERINE VESSELS IN CASES OF HYPERPLASIA OF THE ENDOMETRIUM
PRIMIPAROUS UTERI

CASES	VESSELS		
	ENDOMETRIUM	INNER THIRD OF UTERUS	LOWER MIDDLE THIRD OF UTERUS
16	1	3	3
17	0	2	3
18	2	3	3
19	0	3	3
20	0	3	3
21	2	3	3
22	0	2	3
23	0	1	3
24	0	2	2
25	2	3	2
26	2	3	3
27	1	2	2
28	3	3	3
29	1	3	3

Key to Chart:

- 1, Definite hyperplasia and hypertrophy.
- 2, Marked hyperplasia and hypertrophy.
- 3, Very marked hyperplasia and hypertrophy.

TABLE III, HYPERTROPHY AND HYPERPLASIA OF UTERINE VESSELS IN CASES OF HYPERPLASIA OF THE ENDOMETRIUM
MULTIPAROUS UTERI

CASES	VESSELS		
	ENDOMETRIUM	INNER THIRD OF UTERUS	LOWER MIDDLE THIRD OF UTERUS
30	0	3	3
31	2	3	3
32	3	3	3
33	0	3	3
34	2	2	3
35	1	3	3
36	1	3	3
37	1	2	3
38	0	2	3
39	1	2	3
40	2	2	3
41	0	2	3
42	2	3	2
43	2	3	3
44	1	3	3
45	2	2	3
46	2	3	3
47	2	2	2
48	2	3	3
49	2	3	3
50	3	3	3

Key to Chart:

- 1, Definite hyperplasia and hypertrophy.
- 2, Marked hyperplasia and hypertrophy.
- 3, Very marked hyperplasia and hypertrophy.

thickness of the vessel walls of the endometrium was in the nulliparous individuals. We consider the vessels increased in size and thickness if they show a definite media of muscle tissue. In a perfectly normal endometrium, one occasionally sees vessels of this type, but we have never seen them strikingly in the absence of hyperplasia. Another interesting observation concerned uterine polyps in situ. There is hyperplasia of the vessels in such polyps. The vessels showed the most striking increase in caliber and thickness. This condition of increased size of the endometrial vessels is most striking in the lower half but occasion-

ally we will see it even quite near the surface as is shown in Figs. 6 and 7.

In order to bring out these vessel changes more strikingly, we have included illustrations in which we consider first the normal nulliparous artery of the middle third, showing its nuclear content and tissue in the wall (Fig. 8); also a multiparous uterus which shows the changes of subinvolution strikingly in the hematoxylin-eosin stain and also brings out with the orcein van Gieson stain a marked amount of dead elastic tissue and other material in its wall. In this section it is to be noted that there are comparatively few nuclei in the media of the vessels. At the same

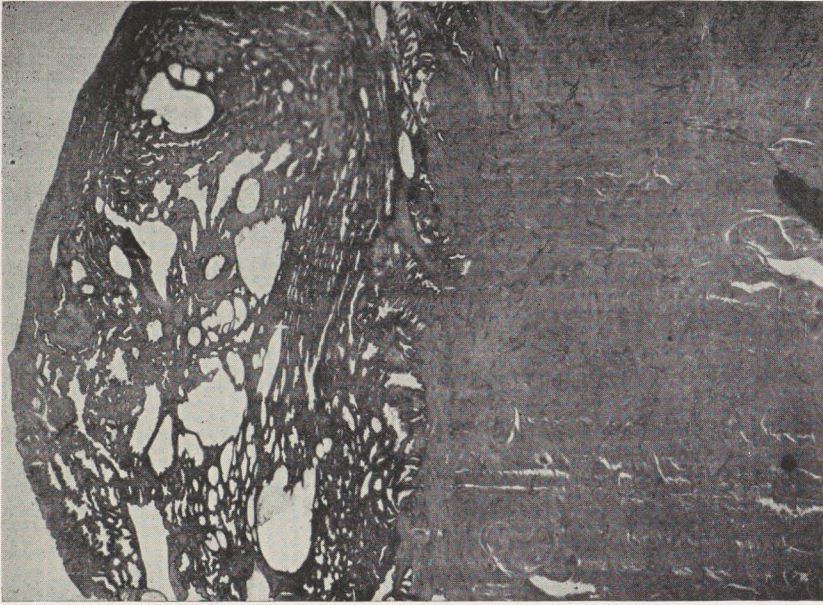


Fig. 6. Marked hyperplasia of the endometrium (Swiss-cheese pattern). Hypertrophy and hyperplasia of blood vessels of the endometrium. One group of vessels can be seen in midline of picture near endometrial surface. Another group present in upper right portion of the endometrium, but well within endometrial area.

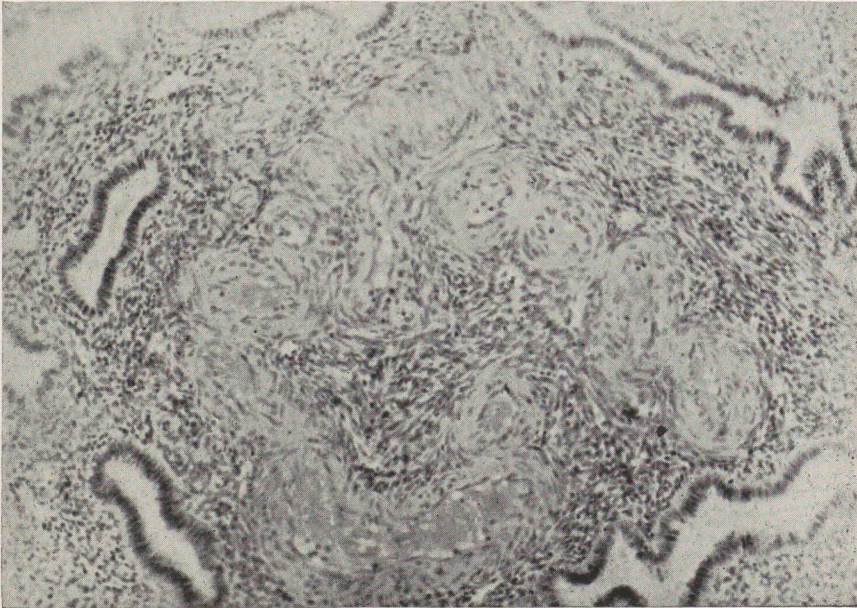


Fig. 7. Higher power of Fig. 6. Upper group of arteries near endometrial surface. Note the increase in caliber; also the well-developed media of these vessels.

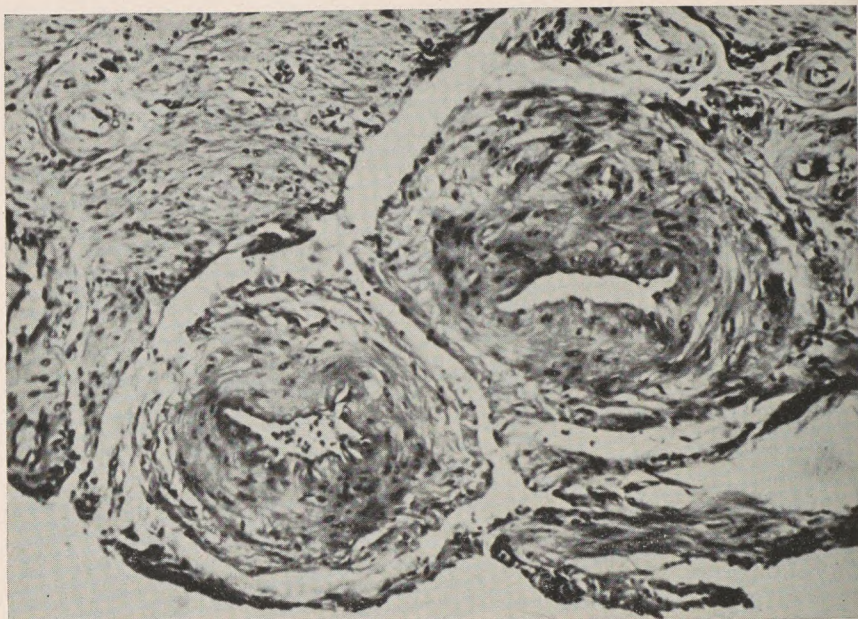


Fig. 8



Fig. 9

Fig. 8. Middle third of uterus, normal arteries, nulliparous. Compare with Figs. 3 and 5.

Fig. 9. Middle third of uterus. Multiparous uterus, vessels in state of marked chronic subinvolution. Hematoxylin and eosin. Hyaline-appearing wall due to diffused dead material, lack of absorption during involution. Mixture of elastic and muscle tissue, but stains homogeneously as elastic tissue. Note the evenly scattered nuclei throughout the media. Vessels of this character can become hyperplastic as well as those from a nulliparous uterus.

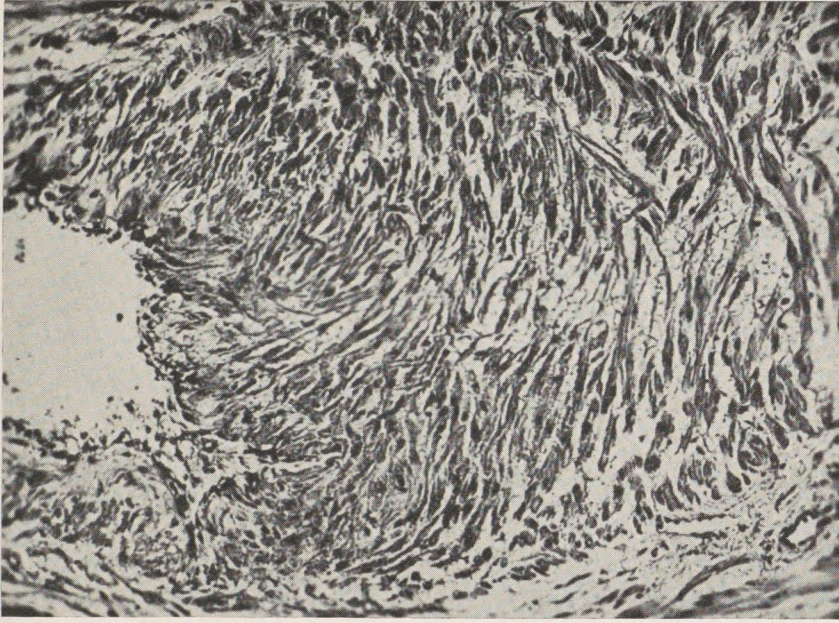


Fig. 10. Pregnancy 12 weeks, primiparous. Artery, middle third of uterus, about one-third of vessel showing. Note the large size of the muscle cells of the media with striking hyperplasia and running off into the adjacent tissue. Compare with normal vessels in Fig. 8. This marked change has taken place in a period of 12 weeks.

time, this type of vessel can be stimulated, producing hypertrophy and hyperplasia of the wall. In hyperplasia of the endometrium, these vessels similarly become hyperplastic just as in the case of the nulliparous vessels (Fig. 9).

Third, in observing these vessels in our study, it occurred to us that, during pregnancy when the vessels become very hypertrophic, a hyperplastic development might also be present. This was found to be true. We went over some 45 sections of uteri showing the placenta and the peritoneum in various months of pregnancy and the findings were most remarkable and interesting. We are reporting these changes during various months of pregnancy in a subsequent

study which will be presented in the near future. Here, however, as a matter of comparison, we will show an illustration (Fig. 10) which shows how rapid and marked these changes are in pregnancy. The section in this case is from a uterus of a woman who was 12 weeks pregnant. It was her first pregnancy and was terminated by one of the staff surgeons because of decompensated heart disease. In studying this picture, it must be remembered that these vessels were simple nonhypertrophic vessels of a nulliparous individual 13 weeks before. In a period of 12 weeks these very striking changes have taken place. They are very marked in both arteries and veins and more particularly in the veins. The condition at 12 weeks,

as the picture shows, is very striking. The proliferation of the cells of the media of the vessels, both veins and arteries, is tremendous. They look very much like muscle cells of a more advanced pregnant uterine musculature. The cells are running away into the uterine wall in all directions, indicating that the hyperplasia of the muscle cells in the uterus during pregnancy, as Stieve has stated, must come from this source and not from any other condition. He did not emphasize vessel origin but stated that new muscle cells arose from histiocytes in adventitial connective tissue. This will all be reported subsequently in detail. This condition at 12 weeks is most interesting to us because it is at this time in pregnancy that the estrogen level is quite high and the corpus luteum is at the height of its development, indicating that this normal change is due to a combined stimulation of estrogen and progesterone.

Knowing full well that hyperplasia of the endometrium has been obtained by many observers by stimulation with estrogen, we thought that by some experiments with virgin rabbits we might be able to reproduce the picture which we have just described for the human

being. This we were able to do with very little difficulty. In order to produce excessive growths, we injected rabbits for 12 weeks, 3 mg. of stilbestrol 3 times weekly. One received 3 mg. stilbestrol twice weekly for 3 weeks, and then, in addition, 1 mg. of progesterone 3 times weekly until autopsy at 12 weeks.

In studying sections of these uteri it is obvious that overdosing caused first hyperplasia, then necrosis of the endometrium. The hyperplasia of the endometrium which have been present at a much earlier period has disappeared. The endometrium is necrotic and all the glandular elements are practically destroyed. There is also a necrosis of the inner portion of the muscle layer, but, interestingly enough, in both specimens the vascular tree is still in a state of marked hypertrophy and hyperplasia. We then considered that by treating animals similarly for a period of 3 weeks we should catch the picture of marked hyperplasia with the accompanying vessel changes, and this we did.

Figs. 12 and 13 show the condition of the animals treated with estrogen for 3 weeks. This shows a striking Swiss-cheese pattern and a hypertrophy of the musculature, and some hyperplasia and

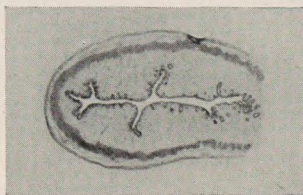


Fig. 11. Section of uterus of rabbit 5 to 6 months old, virgin. Fig. 12 and Fig. 14 taken at the same magnification for comparison. Uterus comparatively small, dark middle strand is well-developed smooth muscle. Note no conspicuous blood vessels.

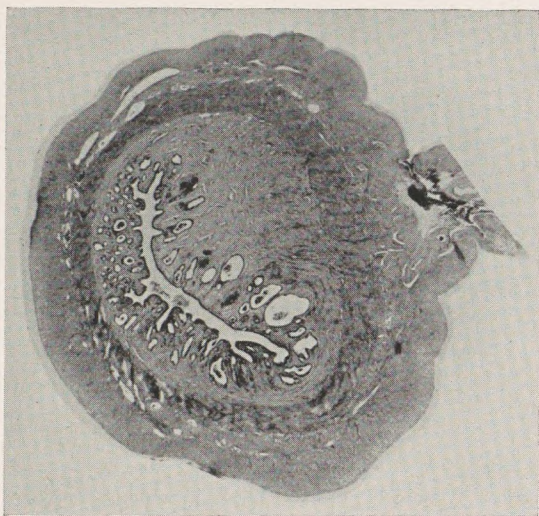


Fig. 12. Virgin rabbit uterus, stimulated by estrogen (for dosage see text). Period 3 weeks. Same age rabbit of Fig. 11. Note well-developed "Swiss-cheese" hyperplasia, increased musculature, and some hypertrophy and hyperplasia of vascular system.

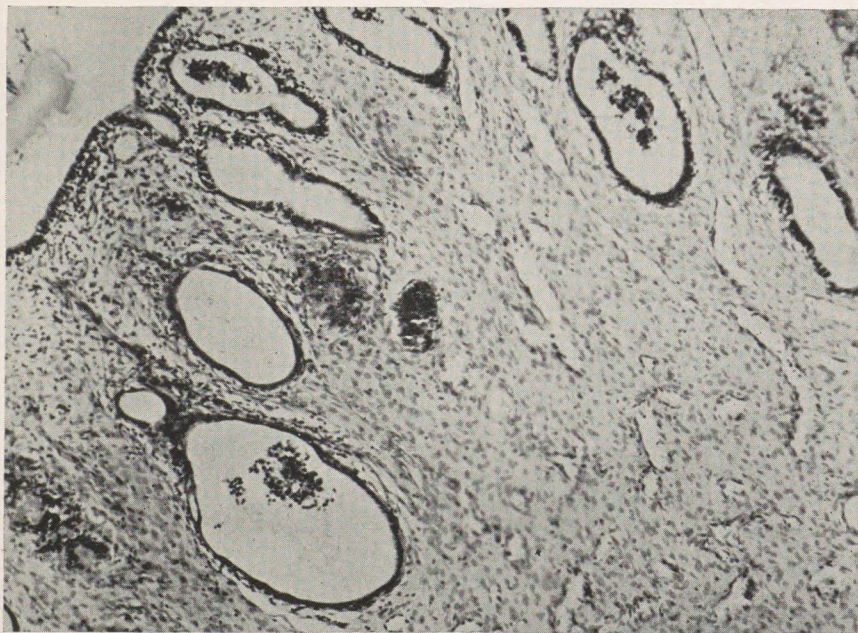


Fig. 13. Endometrium of Fig. 12 showing hyperplasia very strikingly. Vessels showed only moderate hyperplasia.

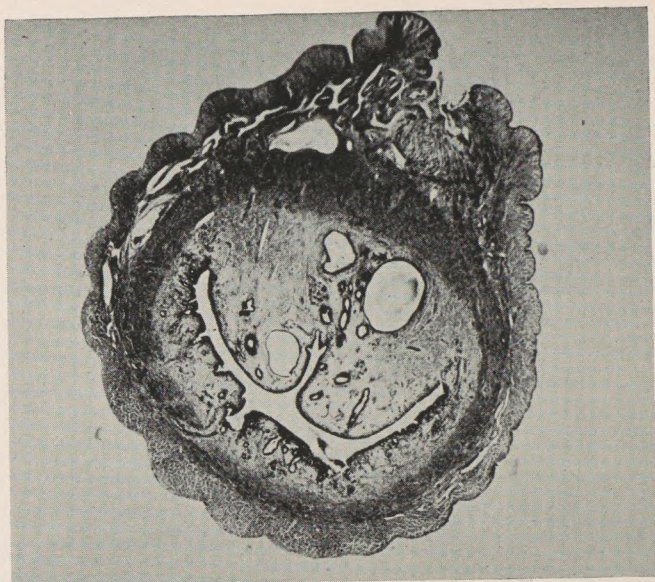


Fig. 14. Virgin rabbit uterus, stimulated with estrogen and progesterone (for dosage see text). Period 3 weeks. Same age as rabbit of Fig. 11. Over-all picture shows endometrium, uterine wall, and vascular system much more strikingly. Note especially markedly hypertrophic vessels in upper right portion of the picture.



Fig. 15. Outer half of uterine wall of Fig. 14 showing very marked hypertrophy and hyperplasia of the uterine blood vessels.

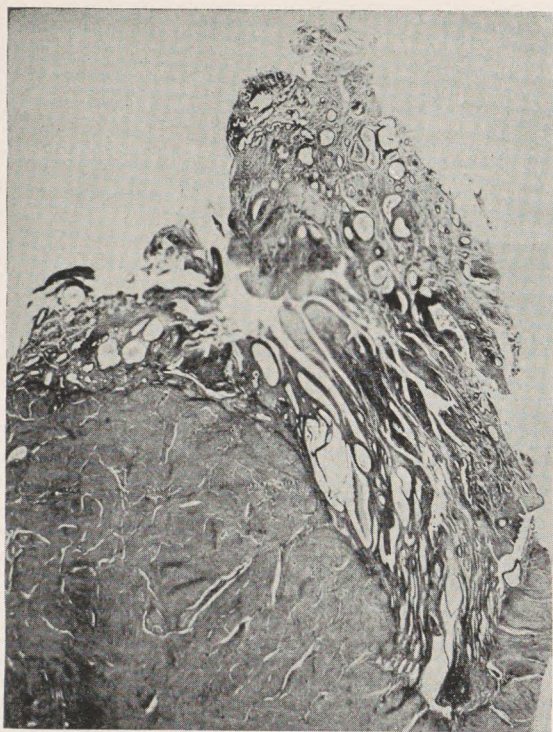


Fig. 16. Uterus of monkey, marked hyperplasia of endometrium, estrogen stimulation, previously reported by R. J. Crossen, St. Louis, Mo.

hypertrophy of all the vessels. The specimen in which progesterone was added shows all these changes even more strikingly. The Swiss-cheese pattern is exaggerated, the uterine wall is more hypertrophied, and the vessels are considerably thicker even than when estrogen was given alone (Figs. 14 and 15). In other words, we produced in these rabbits a picture entirely analogous to what we see in the uterus in chronic cases of hyperplasia of the endometrium. The striking picture of these cases can be best appreciated by comparing them to the control rabbit in Fig. 11, the control picture taken at the same scale as that of the injected

animals, and the comparison is of course strikingly obvious. Very meager endometrium is present. The muscle wall is of very moderate thickness in comparison and the circulation is difficult to make out even with low-powered magnification. The amazing changes that took place in these animals in three weeks to us were most remarkable.

We were familiar with the work of Dr. Crossen in monkeys. With the use of estrogen alone he produced a very marked hyperplasia of the endometrium even to the extent of polypoid formation, but no mention in his study is made of the enlargement of the blood vessels. We were fortunate in obtain-

Fig. 17

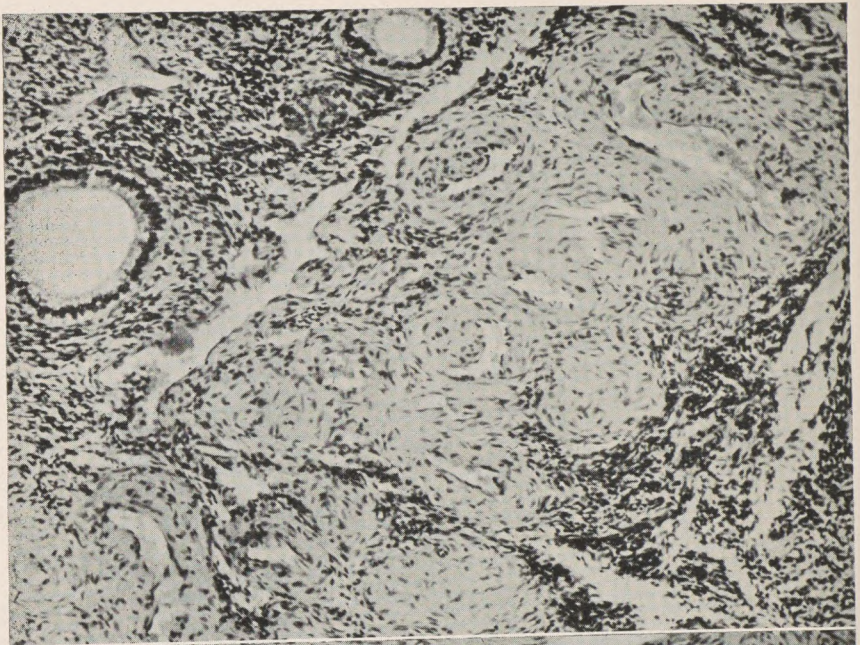


Fig. 18



Fig. 17. Monkey. Marked hyperplasia of the arteries of the upper endometrium. Compare with Fig. 7 in the human being.

Fig. 18. Monkey, same as Fig. 16, middle of hypertrophied uterine wall, showing marked hypertrophy and hyperplasia of blood vessels.

ing from Crossen one of the paraffin blocks which we had sectioned. This specimen not only showed the striking hyperplasia but the very large vessels throughout the endometrium containing a definite media with large amounts of smooth muscle (Figs. 16, 17, and 18). The uterine wall, itself, was hypertrophied and the vessels of the uterine walls were likewise markedly hypertrophied and hyperplastic.

COMMENT

From this study we feel that hyperplasia of the uterine vessels is an accompanying feature of hyperplasia of the endometrium. It is strikingly seen in all cases of marked hyperplasia, even to the extent of hyperplasia of the vessels of the inner third and of the endometrium itself.

From reviewing many cases we feel that the stimulus that brings this all about first acts upon the vessels of the lower middle third, gradually increasing the blood supply of the inner third, and thereby bringing stimulating factors into the endometrium in larger amounts. If the condition is of sufficient standing, then even the vessels of the lower endometrium show these hyperplastic conditions very strikingly themselves.

Finally, with the abnormal stimulation of estrogen and progesterone, the uterine vessels show even a more striking picture of hyperplasia and hypertrophy than the endometrium in hyperplasia, and the usual accompanying hypertrophy of the uterine wall.

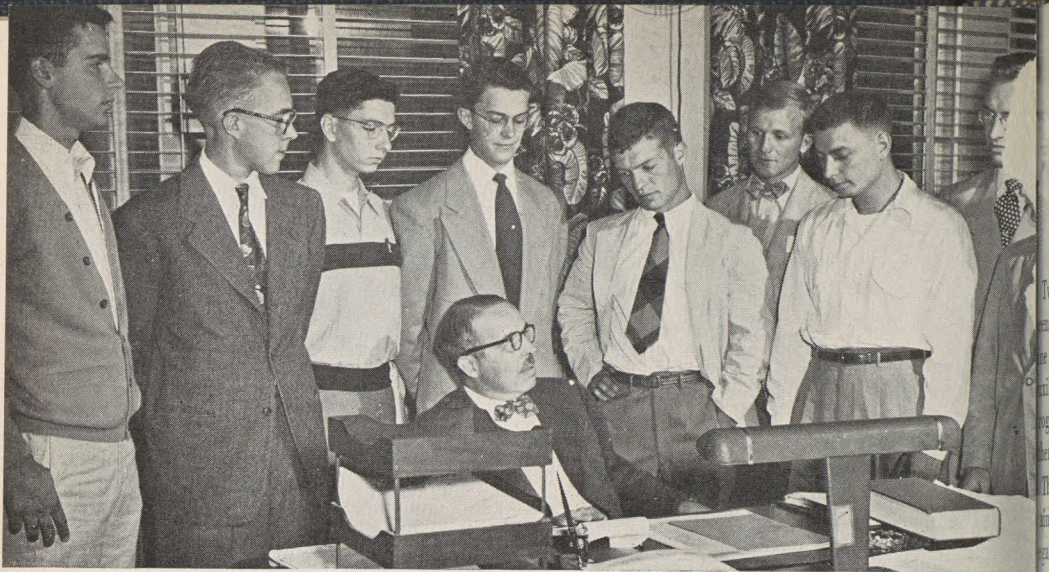
Dr. Otto H. Schwarz Dies August 19 at Age of 62

Dr. Otto H. Schwarz, professor of obstetrics and gynecology and head of that department in the School of Medicine for 12 years, died of cancer at McMillan Hospital on August 19, at the age of 62.

A native of St. Louis, Dr. Schwarz was graduated from the School of Medicine in 1913 and joined the teaching staff in 1916. He was appointed instructor in 1918 and associate professor in 1922. Dr. Schwarz was designated professor-elect of obstetrics and gynecology for two years in 1926 and during that time studied elsewhere in this country and abroad. Upon his return in 1928 he took over as head of the department, and held that post until 1940 when, at his own request, he became professor of clinical obstetrics-gynecology and entered private practice. In July, 1949, Dr. Schwarz was appointed to the full-time staff to do research.

Dr. Schwarz was the son of the late Dr. Henry Schwarz, who established the University's obstetrical service and taught for many years. He is survived by his widow, a daughter, and four sons, all from St. Louis.

In May of this year, the class of 1925 extended to Dr. Schwarz an honorary membership in recognition of his teaching, which they described as having "gone far afield and it has stood the test of time and proved itself as basic and good."



SONS OF W. U. ALUMNI ENTER MEDICAL SCHOOL

Nine students, all sons of Washington University alumni in medicine or dentistry, are welcomed by Dr. Robert A. Moore, Dean, as they registered with the freshman class in the School of Medicine on September 6. From left to right are: Armin Hofsommer, son of Dr. Armin C. Hofsommer '22 and Dr. Aphrodite Hofsommer '23; Philip Crossen, son of Dr. Robert J. Crossen '25; John Whitsell, son of Dr. Ora E. Whitsell '24; Gerald Behrens, son of Dr. T. A. Behrens (D.D.S. '23); John Grant, son of Dr. Samuel B. Grant '20; William Costen, son of Dr. James B. Costen, '22; Oscar C. Zink, son of Dr. Oscar C. Zink, '21; Joseph Martin, son of Dr. W. E. Martin '21; and James Benepe, son of Dr. James L. Benepe '26. Drs. Costen, Crossen, Grant and Zink are members of the Medical School faculty.

The freshman class in the Medical School again is filled to capacity with 87 students. All sections of the country are represented by these students, who were chosen from about 2400 applicants. Four women are included in the group.

Seven freshmen students are recipients of Jackson Johnson Regional Scholarships, which are awarded through a bequest from the late Jackson Johnson, former president of International Shoe Co. in St. Louis. These students are: Robert Rubin of St. Louis,

a graduate of W. U. this year; David E. Langdon, Spokane, Wash., who attended Washington State College; David D. Nolting, Albuquerque, N. M., a graduate of the University of New Mexico; John D. Vavra, Boulder, Colo., a graduate of the University of Colorado; Robert S. Mendelsohn, Cincinnati, O., a graduate of Washington and Lee University, Lexington, Va.; Daniel Nathans, Wilmington, Del., who was graduated from the University of Delaware; and Leon Schultz, a graduate of New York University.

TWO NEW TRAINING PROGRAMS INITIATED AT MEDICAL SCHOOL

Two new educational programs have been initiated in the School of Medicine this year for training in technics auxiliary to medical treatment. One program is in occupational therapy; the other is in X-ray technology.

The first class in a new two-year training program in X-ray technology began training in July with four students. This course is approved by the American Registry of X-Ray Technicians and was approved by the A.M.A. at the June convention. A second class entered in September, and it is planned to have two such classes each year. At present there are two men and two women in each class, and it is expected that the male-female ratio will continue to be the same, since there are opportunities for both in this field.

The training school is under the direction of Mr. James A. Morgan, who has been on the staff here since January. His training was received under Dr. L. R. Sante at Firmin Desloge Hospital, and he was at the University of Wisconsin for two years and at Mt. Sinai Hospital in Milwaukee for four years. Prior to joining the W. U. staff, he was in the technical service departments for Westinghouse and General Electric Companies.

The first ten weeks of the course is devoted to didactic teaching, including the basic principles of darkroom processing, X-ray physics, positioning the patient and technic. Following this period, the students rotate through the Department of Radiology for practical

training under graduate technicians. Residents in radiology teach anatomy during the ten-week period; Mr. Morgan teaches all other courses.

Upon completion of this program, the trainees have fulfilled all requirements for examination and certification by the national registry of X-ray technicians. They receive a certificate from the University.

OCCUPATIONAL THERAPY

The department of occupational therapy was appointed one of three schools in this country to offer a concentrated one-semester course in occupational therapy, which began Sept. 11. Purpose of this course is to train therapists who can be registered and will be able to fill the urgent need for professional therapists in military and veterans' as well as civilian hospitals.

Requirements for admission were a college degree, including certain hours in psychology, science, sociology and creative or manual arts; proficiency in three major skills, such as woodworking, plastics, weaving, etc.; and 18 months of hospital experience.

Ten students are enrolled in this training—four women and six men. After completion of the semester's work, they will take clinical training at a recognized hospital for from six to nine months, following which they will be eligible to take the national examination for registration with the American Occupational Therapy Association.

(Continued on page 19)

U.S.P.H.S. ANNOUNCES GRANTS TO 15 W. U. STAFF MEMBERS

Research grants totaling \$78,943 from the United States Public Health Service to 15 staff members of the School of Medicine were announced on Sept. 21. These grants were included in a total of 155 approved by Surgeon General Leonard A. Scheele on recommendations of the National Advisory Health Council.

Washington University recipients of grants were: Dr. Robert Elman, for a study of systemic effects of injury and surgical operation; Dr. Carl F. Cori, for study of hormonal control of glucose metabolism; Drs. Martin Silberberg and Ruth Silberberg, for work on interaction of hormones and nutritional factors in origin of degenerative joint diseases; Dr. Mildred Trotter, to study age changes in head hair; Dr. Albert I. Lansing, to study effect of parental age on longevity of mice; Dr. Sedgwick Mead, for study of cutaneous pain thresholds by electrical stimulation.

Dr. Herbert R. Domke will study factors influencing decline of whooping cough morbidity and mortality; Dr. Thomas H. Hunter, for work on mechanism of penicillin action; Dr. Morris E. Friedkin, for work on nucleic acid synthesis; Dr. F. Edmund Hunter, Jr., to study the tricarboxylic acid cycle. Also receiving grants were Dr. James L. O'Leary, who is conducting a study of the forebrain as a basis for understanding manifestations of behavior that occur with organic involvement of the central nervous system; Dr. Joseph Erlanger, to study nerve physiology; Dr.

William Sleator, Jr., for research in studies of optical methods of the molecular events taking place in a muscle during contraction; and Dr. Virgil Scott, for work on the rabbit ear chamber as a method of studying origin of cutaneous syphilitic lesions.

Other grants in Missouri went to Dr. Henry Pinkerton at St. Louis University Medical School for research in cancer and viral and rickettsial diseases; Dr. A. G. Hogan of the University of Missouri to study the relation of nutrition to hydrocephalus in rats.

Foreign Visitors to School Give Lectures on Research

In order that students and staff members may hear first-hand about research in medicine going on in other countries, the Medical School is bringing to St. Louis scientists visiting the United States. During September, three special lectures were given by English and Australian visitors.

Dr. Eric Horning of the Chester Beatty Research Institute in London, England, spoke Sept. 11 on "Behind the Scenes in the Prostate Problem." On Sept. 20, Dr. F. M. Burnet told of Australian work on rubella in pregnancy. Dr. Burnet is director of the Walter and Eliza Hall Institute of Medical Research in Melbourne, Australia. Cytological and chemical studies on vitamin C were explained by Professor Geoffrey H. Bourne of the London (England) Hospital Medical College on Sept. 22.

Dr. Walter Fischel Dies July 22 of Heart Disease

Dr. Walter Fischel, graduate and faculty member, died of heart disease at his home, 14 Lenox Pl., in St. Louis, on July 22. He was 69 years old.

Former chief of staff at St. Luke's Hospital in St. Louis, Dr. Fischel also was on the staff at Barnes and Barnard Free Skin and Cancer Hospitals. He was a graduate of Harvard University and of the School of Medicine here in 1905. He was associate professor emeritus of clinical medicine on the Medical School staff.

During World War I, Dr. Fischel was a colonel in charge of Base Hospital 21 in France. He was a brother of Dr. Ellis Fischel, first Missouri State Cancer Commission chairman, for whom the Cancer Hospital in Columbia was named. Dr. Ellis Fischel was associate professor of clinical surgery on the staff at Washington University when he was killed in 1938 in a highway accident.

Dr. Walter Fischel joined the Medical School staff in 1914 as assistant in medicine, was appointed instructor in 1919 and promoted to assistant in 1943. He was promoted to associate professor and retired on July 1, 1949. He is survived by his widow and two daughters.

Training Programs (Cont.)

Washington University was chosen to offer this course for the entire mid-western section of the United States. Other schools participating are the University of Southern California at Los Angeles, and the Richmond (Va.) Professional Institute.

Cancer Research Building Occupied during October

By the time this issue of the *Quarterly* is in the hands of its readers, the first floor of the new Cancer Research Building will be occupied by the administrative offices of the School of Medicine. Upper floors of the building, which is to be known officially as the Ida Jorgensen Finkelburg and Emma Jorgensen Wernse Laboratory of Cancer Research, will be ready for use as soon as equipment is installed.

One of the unusual features of the strictly-modern building is an abstract design in plaster which forms a drop ceiling over the entrance hall-way. This design was created by Harris Armstrong, architect for the building, and its meaning may be interpreted in any way the on-looker wishes, says Mr. Armstrong. Wide areas of glass, aluminum window frames and metal doors give the building a look of spaciousness.

During the middle of August, the Medical School took over the student lounge, half of which was demolished and rebuilt as part of the new building. It is being remodeled to include a modernized Book Store.

Offices being moved to the first floor are those of the Dean, Dr. Robert A. Moore; assistant deans, Drs. Thomas H. Hunter, Robert I. Watson, Samuel C. Bukantz, and Ben Eiseman; and the Registrar, Mr. William B. Parker. The Division of Cancer Research under Dr. Edmund V. Cowdry will occupy the fourth floor, and cancer research units from other departments in the school will use the second and third floors of the new building.

REPORT OF THE DORMITORY FUND CAMPAIGN

We need at least \$100,000 from the alumni before private philanthropy will be interested in our project.

To date we have total contributions and pledges amounting to \$52,322.10 from 483 alumni. This is an average contribution of \$108.00. The individual amounts have ranged from \$5.00 to \$1500.00.

It is probable that many of our alumni are unaware of the housing difficulties for medical students at Washington University. Some have felt that the status quo is all right. "It was good enough for us, etc., etc."

Actually the housing situation has been getting increasingly more difficult and unsatisfactory. It will certainly

continue to get worse until we improve it—by building the dormitory.

Medical students are intelligent and responsible young men and women. They have come here from colleges that provide good facilities. Many of them are married; some have children.

They deserve a good place in which to live while they spend four years at the hardest kind of studies. We must not continue to expose them to sub-standard housing.

We can't let them down, and there are still more than 2500 alumni to be heard from.

Please send your check in now so your name may be added to the list of contributors below.

Samuel B. Grant
Chairman

Medical Student Dormitory Fund Contributors from Each Class

- | | |
|---|--|
| 1949—Living Graduates, 95 | Roscoe Maxwell, Punta Gorda, Fla. |
| Eugene W. Pearce, Washington, D. C. | Eugene E. Taylor, Mocksville, N. C. |
| 1948—Living Graduates, 90 | Gary B. Wood, St. Louis |
| Walter A. Fernau, Jr., Cincinnati O. | 1944—Living Graduates, 99 |
| David A. Guterman, Elgin, Ill. | Rowe F. Bisbee, Ada, Okla. |
| Juro L. Shintani, Perry Point, Md. | Albert B. Eisenstein, St. Louis |
| 1947—Living Graduates, 96 | J. K. Frost, Centralia, Ill. |
| Charles G. Clay, Rantoul, Ill. | Ervan Levine, Vandalia, Mo. |
| Marvin Cornblath, St. Louis | Clayton H. Manry, Syracuse, N. Y. |
| William C. Dunkel, Charlottesville, Va. | Francis E. Pennington, St. Louis |
| Helen Hofsommer Glaser, St. Louis | John J. Rupp, Tucson, Ariz. |
| Burnet W. Peden, St. Louis | David E. Smith, St. Louis |
| Virginia H. Peden, St. Louis | Roy A. Walther, Jr., Overland, Mo. |
| 1946—Living Graduates, 91 | 1943 (Dec.)—Living Graduates, 112 |
| James O. Owen, Jr., Skiatook, Okla. | John F. Blinn, Jr., Stockton, Calif. |
| Frank Vellios, St. Louis | C. Read Boles, St. Louis |
| Leonard J. Wiedershine, Aurora, Colo. | William P. Callahan Wichita, Kan. |
| 1945—Living Graduates, 97 | Joseph B. Clay, Van Nuys, Calif. |
| John T. Farrar, Boston, Mass. | Terrell Covington, Jr., McKinney, Tex. |
| Samuel B. Guze, Newington, Conn. | Mary Jordan, Ridley Park, Pa. |
| John T. Johnstone, Jr., St. Louis | Edward H. Kowert, St. Louis |
| Ceylon S. Lewis, Jr., Salt Lake City | Elaine K. Lince, Pasadena, Calif. |

- Torrence A. Makley, Jr., Columbus, O.
 Walter A. Rohlfling, Fresno, Calif.
 Tom G. Stauffer, Scarsdale, N. Y.
 Herbert C. Wiegand, St. Louis
 Frances C. Wilson, Tampa, Fla.
- 1943 (March)—Living Graduates, 95
 Grace E. Bergner, St. Louis
 Raymond M. Charnas, St. Louis
 Harlan I. Firminger, Bethesda, Md.
 Melvin L. Goldman, St. Louis
 H. Clagett Harding, Portland, Ore.
 Ira W. Liebner, Brooklyn, N. Y.
 Eichi Masunaga, T. H.
 Roberts B. Pappenfort, New York, N. Y.
 Ernest S. Rogers, San Francisco, Calif.
 Carvel T. Shaw, Hermann, Mo.
 David A. Stadtner, Stockton, Calif.
 H. A. Uhlemeyer, Jr., St. Louis
- 1942—Living Graduates, 93
 William M. Anderson, Richmond, Va.
 French H. McCain, Birmingham, Mich.
 C. Barber Mueller, St. Louis
 William G. Reese, Perry Point, Md.
 Herman Rice, Temple, Tex.
 Frank O. Shobe, St. Louis
 George L. Watkins, Farmington, Mo.
- 1941—Living Graduates, 93
 Robert J. Cook, St. Louis
 Jane Matthews Day, Montgomery, Ala.
 B. W. Finkel, St. Louis
 Peter O. Fleming, Topeka, Kan.
 Anne T. Goetsch, Berkeley, Calif.
 Samuel W. Gollub, St. Louis
 Geo. Bruce Lemmon, Springfield, Mo.
 Harold E. McCann, E. St. Louis
 V. A. Mueller, Wichita, Kan.
 C. A. Nielsen, Seattle, Wash.
 Joseph W. Noah, St. Louis
 Carol H. Rehm, Los Angeles, Calif.
 Allan M. Rossen, Los Angeles, Calif.
 William L. Topp, Seattle, Wash.
- 1940—Living Graduates, 90
 Donald S. Bottom, Alton, Ill.
 Seymour Brown, St. Louis
 Russell J. Crider, St. Charles, Mo.
 Roland R. Cross, Hines, Ill.
 L. R. Fernandez, Laupahoehoe, T. H.
 James M. Foerster, Wausau, Wis.
 Otto H. Grunow, St. Louis
 R. N. Hirst, Ogden, Utah
- Robert E. Koch, St. Louis
 James Mann, Boston, Mass.
 Gordon F. Moore, Alton, Ill.
 Charles G. Obermeyer, St. Louis
 Willard D. Rowland, Portland, Ore.
 Llewellyn Sale, Jr., St. Louis
 John S. Skinner, St. Louis
 Robert M. Smith, St. Louis
- 1939—Living Graduates, 96
 Alfred K. Baur, St. Louis
 Irving L. Berger, Cleveland, Ohio
 Vilray P. Blair, Jr., St. Louis
 Mark J. Brockbank, Petaluma, Calif.
 Heinz E. Cron, San Francisco, Calif.
 William B. Hildebrand, Menasha, Wis.
 Benjamin Milder, St. Louis
 Edward H. Reinhard, St. Louis
 Minton D. Ritter, Margate City, N. J.
 Gerald A. Slusser, Silver City, N. Mex.
 O. W. Towers, St. Charles, Mo.
- 1938—Living Graduates, 93
 G. W. Blankenship, Anderson, Mo.
 Adolph H. Conrad, Jr., St. Louis
 Lawrence M. Kotner, St. Louis
 Robert G. Moles, Hanford, Calif.
 Anthony Piraino, Oberlin, Ohio
 Philip Rosenblatt, New York, N. Y.
 Roy W. Thomas, Redding, Calif.
- 1937—Living Graduates, 93
 Samuel Brady, Gary, Ind.
 G. L. Calvy, Cleveland, Ohio
 Martin A. Compton, Richmond, Va.
 John R. Connell, Denver, Colo.
 Samuel M. Day, Jacksonville, Fla.
 J. A. Fiorito, New Haven, Conn.
 William H. Gray, Yakima, Wash.
 Robert C. Kingsland, St. Louis
 Carl E. Lischer, St. Louis
 Edgar H. Little, New Orleans, La.
 Elizabeth Lowenhaupt, San Francisco
 Ralph C. Petersen, Glendale, Calif.
 Charles M. Polan, Huntington, W. Va.
 Henry N. Reid, Rome, N. Y.
 Lloyd Rosenbaum, Anderson, Ind.
 H. L. Townsend, Louisville, Ky.
 David R. Wall, Wichita, Kan.
 Marie H. Wittler, Wheaton, Ill.
- 1936—Living Graduates, 95
 James H. Bryan, St. Louis
 F. R. Crouch, Farmington, Mo.

- Norman W. Drey, St. Louis
 Stephen Ellis, Coffeyville, Kan.
 Curtis H. Epps, Springfield, Mo.
 John L. Horner, St. Louis
 W. H. Jacobson, Canton, Ohio
 Nathan R. Kahn, Brooklyn, N. Y.
 Frank McDowell, St. Louis
 James D. Morrison, Billings, Mont.
 R. A. Nussbaum, St. Louis
 Samuel Schneider, St. Louis
 William L. Sellers, Jr., Mobile, Ala.
 Warren B. West, Ogden, Utah
 Robert A. Wise, Houston, Tex.
- 1935—Living Graduates, 89
 I. J. Flance, St. Louis
 Alfred W. Harris, Dallas, Tex.
 A. Herman Hutto, St. Louis
 Norman M. Johnson, Clarinda, Iowa
 Bruce Kenamore, St. Louis
 Ellen S. Loeffel, St. Louis
 Edward Massie, St. Louis
 Sidney Messer, Venice, Calif.
 Clark G. Porter, Three Rivers, Mich.
 Laurence G. Pray, Fargo, N. D.
 David Rothman, St. Louis
 Bernard Schwartzman, St. Louis
 Ben H. Senturia, St. Louis
 A. J. Steiner, St. Louis
 Irvin Weisman, Granite City, Ill.
- 1934—Living Graduates, 88
 Helen M. Aff, St. Louis
 James M. Baker, Columbia, Mo.
 Eugene M. Bricker, St. Louis
 L. F. Bush, Danville, Pa.
 T. C. Campbell, New Orleans, La.
 David Friedman, Granite City, Ill.
 Paul O. Hagemann, St. Louis
 Stanley Hampton, St. Louis
 Louis G. Jekel, Phoenix, Ariz.
 Dorothy J. Jones, St. Louis
 Morris D. Marcus, St. Louis
 M. Norman Orgel, St. Louis
 H. D. Rosenbaum, St. Louis
 John A. Saxton, St. Louis
 Edna Schrick, Oakland, Calif.
- 1933—Living Graduates, 88
 Henry C. Allen, St. Louis
 James W. Bagby, St. Louis
 Russell J. Blattner, Houston, Tex.
 Cecil M. Charles, St. Louis
- Truman G. Drake, St. Louis
 Wallace D. English, Cardwell, Mo.
 C. A. Good, Rochester, Minn.
 George E. Grim, Kirksville, Mo.
 Carl G. Harford, St. Louis
 John R. Haslem, Terre Haute, Ind.
 W. W. Herman, Cleveland, Ohio
 Joseph C. Jaudon, St. Louis
 F. Craig Johnson, Denver, Colo.
 A. A. Loverde, Chicago, Ill.
 Alvin R. Miller, Seattle, Wash.
 Lyman K. Richardson, New Orleans, La.
 Richard Y. Sakimoto, Honolulu, T. H.
 Robert T. Terry, Nashville, Tenn.
 Oron K. Timm, Danville, Ill.
 R. M. Van Matre, Oklahoma City, Okla.
 Wirt A. Warren, Wichita, Kan.
 Lawrence M. Wilson, Olympia, Wash.
- 1932—Living Graduates, 84
 Harry Agress, St. Louis
 Sim F. Beam, St. Louis
 Brian B. Blades, Washington, D. C.
 Louis T. Byars, St. Louis
 B. S. Clark, Spearfish, S. D.
 William Ehrlich, Newark, N. J.
 Leo Gottlieb, St. Louis
 Kikoshi Inouye, Honolulu, T. H.
 D. H. Kaump, Detroit, Mich.
 William H. Meinberg, St. Louis
 Carl V. Moore, St. Louis
 Paul B. Nutter, Spokane, Wash.
 Sydney S. Pearl, Elizabeth, N. J.
 C. O'Neil Rich, Salt Lake City, Utah
 Wendell G. Scott, St. Louis
 Barrett L. Taussig, St. Louis
 Dwight H. Trowbridge, Fresno, Calif.
 Sam R. Wallis, Kauai, T. H.
 Helman C. Wasserman, St. Louis
- 1931—Living Graduates, 73
 Delevan Calkins, St. Louis
 Joseph Cieri, Piedmont, Calif.
 D. B. Elrod, Cape Girardeau, Mo.
 A. W. Hankwitz, Milwaukee, Wis.
 W. E. Keiter, Kinston, N. C.
 Mary Louise Newman, Jacksonville, Ill.
 H. R. McCarroll, St. Louis
 Robert F. Monroe, Louisville, Ky.
 John A. Schindler, Monroe, Wis.
 R. B. Wray, Nevada, Mo.

1930—Living Graduates, 74

Harold S. Bowman, Wichita, Kan.
 M. A. Brennecke, Waimea, Kauai, T. H.
 M. A. Diehr, St. Louis
 Donald E. Eggleston, Macon, Mo.
 Herbert H. Gass, India
 Joseph J. Gitt, St. Louis
 Stanley Harrison, St. Louis
 Alfred H. Hathcock, Fayetteville, Ark.
 I. D. Newmark, Chester, Ill.

1929—Living Graduates, 72

A. W. Freshman, Denver, Colo.
 Guerdan Hardy, St. Louis
 Craig B. Johnston, Philadelphia, Pa.
 Louis Kovitz, Kansas City, Mo.
 Sidney Pakula, Kansas City, Mo.
 Frank B. Queen, Portland, Ore.
 Jay Marvin Salzman, Springfield, Ill.
 A. Ford Wolf, Temple, Tex.

1928—Living Graduates, 63

A. N. Arneson, St. Louis
 William Brewer, Hays, Kans.
 Edward Burns, Toledo, Ohio
 Justin J. Cordonnier, St. Louis
 H. R. Hildreth, St. Louis
 Laurence L. Howard, Great Falls, Mont.
 J. Ted Jean, St. Louis
 R. D. Kepner, Honolulu, T. H.
 Guy N. Magness, St. Louis
 L. A. Malone, Terre Haute, Ind.
 Earl L. Mills, Wichita, Kan.
 John F. Patton, St. Louis
 A. Victor Reese, St. Louis
 Paul R. Rollins, Seattle, Wash.
 Verne Ross, Stockton, Calif.
 W. A. Ruch, Memphis, Tenn.
 David M. Skilling, St. Louis
 S. D. Soule, St. Louis
 A. Lloyd Stockwell, Kansas City, Mo.
 Jacob Stolar, St. Louis
 Vincent T. Williams, Kansas City, Mo.
 George H. Wood, Carthage, Mo.

1927—Living Graduates, 72

Everett C. Drash, Charlottesville, Va.
 A. C. Fortney, Fargo, N. D.
 Alfred G. Henrich, Los Angeles, Calif.
 Irene A. Koeneke, Halstead, Kans.
 W. R. Merrell, Brigham City, Utah
 Alfred J. Metscher, Enid, Okla.
 Kazuo Miyamoto, Honolulu, T. H.

Eugene O. Parsons, Kansas City, Mo.
 Willard C. Schwartz, Manhattan, Kan.
 Abigail E. Smith, Lexington, Mass.
 Frances H. Stewart, St. Louis
 Richard T. Taylor, Los Angeles, Calif.
 Louis L. Tureen, St. Louis
 Franklin Walton, St. Louis
 W. B. Wilcoxon, Bowling Green, Mo.
 George S. Wilson, Enid, Okla.

1926—Living Graduates, 73

Reno A. Ahlvin, Kankakee, Ill.
 Willard Bartlett, Jr., St. Louis
 James L. Benepe, St. Paul, Minn.
 H. M. Chandler, Waipahu, T. H.
 Eric A. Cunningham, Louisiana, Mo.
 Max Deutch, St. Louis
 William M. James, St. Louis
 William B. Kountz, St. Louis
 G. Wendell Olson, Fullerton, Calif.
 Bernard Rand, New York City
 Henry A. Romberg, Oshkosh, Wis.
 J. C. Schmidtke, Elgin, Ill.
 E. H. Theis, Granite City, Ill.

1925—Living Graduates, 69

George P. Bailey, Lakewood, Colo.
 Robert J. Crossen, St. Louis
 H. M. Denny, Union, Mo.
 James J. Donohue, E. St. Louis, Ill.
 B. Y. Glassberg, St. Louis
 A. E. Hiebert, Wichita, Kan.
 Richard K. Kimmel, St. Louis
 Jerome S. Levy, Little Rock, Ark.
 Joseph Magidson, St. Louis
 Carl H. Matthey, Davenport, Iowa
 Sam J. Roberts, Miami, Fla.
 Melvin A. Roblee, St. Louis
 Roland A. Slater, Peoria, Ill.
 Gershom J. Thompson, Rochester, Minn.

1924—Living Graduates, 69

Alfred O. Adams, Spokane, Wash.
 Roy F. Baskett, Texarkana, Tex.
 J. William Beckmann, New York, N. Y.
 Harry J. Davis, Topeka, Kans.
 Charles Drabkin, Los Angeles, Calif.
 Perry E. Duncan, Springfield, Ill.
 William B. Gnagi, Monroe, Wis.
 Scott Johnson, New York City
 Louis H. Jorstad, St. Louis
 Elizabeth E. Koppenaar, Elmhurst, Ill.
 O. Earl Whitsell, St. Joseph, Mo.

- 1923—Living Graduates, 50
 Oliver Abel, Jr., St. Louis
 William G. Becke, St. Louis
 William L. Bradford, Rochester, N. Y.
 James Barrett Brown, St. Louis
 Walter J. Decker, Westfield, Pa.
 George V. Feist, Kansas City, Mo.
 Ben D. Senturia, Chicago, Ill.
 Charles Teel, Bellingham, Wash.
 J. Wm. Thompson, St. Louis
 Clair O. Vingom, Madison, Wis.
- 1922—Living Graduates, 44
 Calvin Clay, St. Charles, Mo.
 James B. Costen, St. Louis
 Kirby A. Martin, New York, N. Y.
 F. E. Sultzman, Hannibal, Mo.
- 1921—Living Graduates, 43
 Lester J. Evans, Jackson Heights, N. Y.
 J. C. McKitterick, Burlington, Iowa
 Harvey S. Rusk, Pueblo, Colo.
 Oscar C. Zink, St. Louis
- 1920—Living Graduates, 39
 Robert L. Andrae, Louisiana, Mo.
 Clifton H. Briggs, Pasadena, Calif.
 Warren H. Cole, Chicago, Ill.
 Alfred Goldman, St. Louis
 Samuel B. Grant, St. Louis
 Guy H. Hopkins, Pueblo, Colo.
 William A. Hudson, Detroit, Mich.
 Frederick E. Jostes, St. Louis
 P. H. Kennedy, Hubbard, Ohio
 Herman M. Meyer, St. Louis
 L. J. Owen, Lincoln, Neb.
 Royal W. Rudolph, Tucson, Ariz.
 H. W. Wellmerling, Bloomington, Ill.
 Harvey Lester White, St. Louis
- 1919—Living Graduates, 45
 Duff S. Allen, St. Louis
 Howard H. Heuston, Boulder, Colo.
 Fred J. Hodges, Ann Arbor, Mich.
 Carl O. Kohlbry, Duluth, Minn.
 Marriott T. Morrison, Mt. Horeb, Wis.
 E. H. Munro, Grand Junction, Colo.
 Howard A. Plank, New York, N. Y.
 A. B. Raffl, Syracuse, N. Y.
 R. P. Roantree, Elko, Nev.
- 1918—Living Graduates, 26
 Glover H. Copher, St. Louis
 Wilbur G. Gillett, Wichita, Kan.
- Elmer N. Liljedahl, Hollywood, Calif.
 Arthur G. Mahle, Chicago, Ill.
 J. F. Pessel, Trenton, N. J.
 O. Sundwall, Murray, Utah
- 1917—Living Graduates, 25
 Archie A. Skemp, La Crosse, Wis.
 J. E. Wattenberg, Cortland, N. Y.
- 1916—Living Graduates, 13
 Earl C. Sage, Omaha, Neb.
 Ray T. Woolsey, Salt Lake City, Utah
- 1915—Living Graduates, 22
 D. K. Rose, St. Louis
 W. T. Wilkening, Fort Scott, Kans.
- 1914—Living Graduates, 8
 John T. McLarney, Brookfield, Mo.
- 1913—Living Graduates, 20
 F. O. Kettelkamp, Colorado Springs, Colo.
- 1912—Living Graduates, 30
 C. F. DeGaris, Oklahoma City, Okla.
 Roy G. Empson, Valmeyer, Ill.
 Edwin C. Ernst, St. Louis
 George S. Gilpin, Cleveland, O.
 Wells C. Reid, Goodrich, Mich.
 George L. Watkins, Farmington, Mo.
- 1911—Living Graduates, 22
 Charles H. Hecker, Palo Alto, Calif.
 Arthur J. Wagers, Philadelphia, Pa.
- 1910—Living Graduates, 40
 Stanley S. Burns, St. Louis
 Frederic Hagler, Springfield, Mass.
 Robert M. Hardaway, Wheatridge, Colo.
 John P. Keim, St. Louis
 Peter G. Moskop, St. Louis
 Claude D. Pickrell, St. Louis
 Frederick O. Schwartz, St. Louis
- 1909—Living Graduates, 30
 James W. Barrow, Carbondale, Ill.
 Carey B. Elliott, Raton, N. Mex.
 W. N. Pugh, Salt Lake City, Utah
 Richard S. Weiss, St. Louis
- 1908—Living Graduates, 31
 W. A. Olds, Colville, Wash.
 O. J. Raeder, Boston, Mass.
- 1907—Living Graduates, 28
 C. C. Nash, Dallas, Tex.
 Grandison D. Royston, Hope, Ark.
 Llewellyn Sale, St. Louis

- 1906—Living Graduates, 35
 Martin J. Glaser, St. Louis
 Arthur Gundlach, St. Louis
 S. P. Martin, East Prairie, Mo.
 S. B. McPheeters, Goldsboro, N. C.
 William H. Smith, Colfax, Calif.
- 1905—Living Graduates, 30
 Jerome E. Cook, St. Louis
 Walter Fischel, St. Louis
 Harry M. Griffith, Pasadena, Calif.
 J. M. James, Henning, Ill.
 O. W. Knewitz, East St. Louis
- 1904—Living Graduates 33
 Paul Baldwin, Kennett, Mo.
 N. M. Freund, St. Louis
 J. H. Woodbridge, Pueblo, Colo.
- 1903—Living Graduates, 22
 A. H. Myerdick, Mt. Pleasant, Iowa
 Clive D. Scott, Louisiana, Mo.
- 1902—Living Graduates, 22
- 1901—Living Graduates, 20
 Walter C. G. Kirchner, St. Louis
 M. K. Wylder, Albuquerque, N. Mex.
- 1900—Living Graduates, 2
- 1899—Living Graduates, 41
 C. L. Lawless, Marshall, Mo.
 R. O. Raymond, Flagstaff, Ariz.
 Selden Spencer, St. Louis
 Julian B. Woodson, Lowesville, Va.
- 1898—Living Graduates, 19
 J. G. W. Fischer, Alma, Mo.
 R. B. H. Gradwohl, St. Louis
 John Q. Roane, Carlyle, Ill.
- 1897—Living Graduates, 34
 Theodore Greiner, St. Louis
 Frederick E. Woodruff, St. Louis
- 1896—Living Graduates, 30
- 1895—Living Graduates, 27
 H. A. Geitz, Monterrey, N. L., Mexico
 Sandor Horwitz, Peoria, Ill.
 Robert J. Terry, St. Louis
- 1894—Living Graduates, 14
- 1893—Living Graduates, 17
 Andrew Darling, St. Louis
 R. Clarence Stephens, Plymouth, Ind.
- 1892—Living Graduates, 4
- 1891—Living Graduates, 21
- 1890—Living Graduates, 6

- 1889—Living Graduates, 13
- 1888—Living Graduates, 15
- 1887—Living Graduates, 6
- 1886—Living Graduates, 4
- 1885—Living Graduates, 8
- 1884—Living Graduates, 8
- 1883—Living Graduates, 12
 W. A. Fries, St. Louis
- 1882—Living Graduates, 1
- 1881—Living Graduates, 2
 James A. Dickson, St. Louis
 Willis Hall, St. Louis
- 1880—Living Graduates, 2

OTHER DONORS

- Mrs. T. R. Akin, Clayton, Mo.
 Harry L. Alexander, M.D., St. Louis
 Robert W. Bartlett, M.D., St. Louis
 Leon Bromberg, M.D., St. Louis
 J. J. Bronfenbrenner, Ph.D., St. Louis
 Samuel C. Bukantz, M.D., St. Louis
 Martin M. Calodney, M.D., St. Louis
 Benjamin H. Charles, M.D., St. Louis
 Drs. Carl F. and Gerty T. Cori, St. Louis
 Gustave J. Dammin, M.D., St. Louis
 Morris Davidson, M.D., St. Louis
 Hollowell Davis, M.D., St. Louis
 Joseph C. Edwards, M.D., St. Louis
 Ben Eiseman, M.D., St. Louis
 Robert Elman, M.D., St. Louis
 Robert J. Glaser, M.D., St. Louis
 Harry N. Glick, M.D., St. Louis
 Drs. Evarts and Helen Tredway Graham,
 St. Louis
 G. E. Gruenfeld, M.D., St. Louis
 Miss Helen D. Harkness, St. Louis
 Leopold Hofstatter, M.D., St. Louis
 John Esben Kirk, M.D., St. Louis
 Paul E. Kubitschek, M.D., St. Louis
 K. Cramer Lewis, St. Louis
 Grover Liese, M.D., St. Louis
 Robert G. Loeffel, St. Louis
 Sedgwick Mead, M.D., St. Louis
 Albert I. Mendeloff, M.D., St. Louis
 Ivan N. Mensh, Ph.D., St. Louis
 William H. Olmsted, M.D., St. Louis
 Ernest H. Parsons, M.D., St. Louis
 Joseph C. Peden, Sr., M.D., St. Louis
 Lawrence T. Post, M.D., St. Louis
 M. Hayward Post, M.D., St. Louis
 Herman J. Rosenfeld, M.D., St. Louis

Theodore B. Rosenthal, Ph.D., St. Louis
 Harold Scheff, M.D., St. Louis
 Arthur E. Strauss, M.D., St. Louis
 A. C. Stutsman, M.D., St. Louis
 Robert Votaw, M.D., St. Louis

Theodore Walsh, M.D., St. Louis
 Carl R. Wegner, M.D., St. Louis
 Park J. White, M.D., St. Louis
 Ralph B. Woolf, M.D., St. Louis

Contributors According to Trade Areas

<i>Trading Area Center</i>	<i>No. of Graduates in Trading Area</i>	<i>Trading Area Center</i>	<i>No. of Graduates in Trading Area</i>
Albany (N. Y.)	3	H. W. Wellmerling, Bloomington, Ill.	
Albuquerque (N. Mex.)	5	Marie H. Wittler, Wheaton, Ill.	
Carey B. Elliott, Raton, N. Mex.		Cincinnati (O.)	16
M. K. Wylder, Albuquerque, N. Mex.		Charles M. Polan, Huntington, W. Va.	
Amarillo (Tex.)	5	Cleveland (O.)	22
Atlanta (Ga.)	9	Irving L. Berger, Cleveland	
Baltimore (Md.)	14	G. L. Calvy, Cleveland	
William G. Reese, Perry Point, Mo.		George S. Gilpin, Cleveland	
Juro J. Shintani, Perry Point, Md.		W. W. Herman, Cleveland	
Birmingham (Ala.)	32	W. H. Jacobson, Canton, O.	
Jane Matthews Day, Montgomery, Ala.		P. H. Kennedy, Hubbard, O.	
Bismarck (N. D.)	1	Anthony Piraino, Oberlin, O.	
Boston (Mass.)	26	Columbus, (O.)	11
Frederick Hagler, Springfield, Mass.		Dallas (Tex.)	47
O. J. Raeder, Boston		Terrell Covington, Jr., McKinney, Tex.	
Abigail E. Smith, Lexington, Mass.		Alfred W. Harris, Dallas	
Buffalo (N. Y.)	10	C. C. Nash, Dallas	
William L. Bradford, Rochester, N. Y.		Herman Rice, Temple, Tex.	
Walter J. Decker, Westfield, Pa.		A. Ford Wolf, Temple, Tex.	
Butte (Mont.)	4	Denver (Colo.)	58
Charlotte (N. Car.)	21	George P. Bailey, Lakewood, Colo.	
Eugene E. Taylor, Mocksville, N. C.		John R. Connell, Denver	
Chicago (Ill.)	94	A. W. Freshman, Denver	
Reno A. Ahlvin, Kankakee, Ill.		Robert M. Hardaway, Wheatridge, Colo.	
Samuel Brady, Gary, Ind.		Howard Heuston, Boulder, Colo.	
Charles G. Clay, Rantoul, Ill.		Guy H. Hopkins, Pueblo, Colo.	
Warren H. Cole, Chicago		F. Graig Johnson, Denver	
Roland R. Cross, Hines, Ill.		F. O. Kettelkamp, Colorado Springs	
William B. Gnagi, Monroe, Wis.		E. H. Munro, Grand Junction, Colo.	
Sandor Horwitz, Peoria, Ill.		Harvey S. Rusk, Pueblo, Colo.	
J. M. James, Henning, Ill.		Leonard J. Wiedershine, Aurora, Colo.	
Elizabeth Koppenaal, Elmhurst, Ill.		J. H. Woodbridge, Pueblo, Colo.	
A. A. Loverde, Chicago		Des Moines (Ia.)	30
Carl H. Matthey, Davenport, Ia.		J. C. McKittrick, Burlington, Ia.	
John A. Schindler, Monroe, Wis.		A. H. Myerdick, Mt. Pleasant, Ia.	
J. C. Schmidtke, Elgin, Ill.		Detroit (Mich.)	33
Ben D. Senturia, Chicago		Fred J. Hodges, Ann Arbor, Mich.	
Roland A. Slater, Peoria, Ill.		William A. Hudson, Detroit	
R. Clarence Stephens, Plymouth, Ind.		D. H. Kaump, Detroit, Mich.	
Oreon K. Timm, Danville, Ill.		French H. McCain, Birmingham, Mich.	

<i>Trading Area Center</i>	<i>No. of Graduates in Trading Area</i>	<i>Trading Area Center</i>	<i>No. of Graduates in Trading Area</i>
Wells C. Reid, Goodrich, Mich.		Charles Drabkin, Los Angeles	
Duluth (Minn.)		Harry M. Griffin, Pasadena, Calif.	
C. O. Kohlbry, Duluth		Alfred G. Henrich, Los Angeles	
El Paso (Tex.)	5	Elmer N. Liljedahl, Hollywood, Calif.	
Gerald A. Slusser, Silver City, N. Mex.		Elaine K. Lince, Pasadena, Calif.	
Evansville (Ind.)	22	Sidney Messer, Venice, Calif.	
Fargo (N. D.)	7	G. Wendell Olson, Fullerton, Calif.	
A. C. Fortney, Fargo		Carol H. Rehm, Los Angeles	
Laurence G. Pray, Fargo		Allan M. Rossen, Los Angeles, Calif.	
Grand Rapids (Mich.)	10	Richard T. Taylor, Los Angeles	
Clark G. Porter, Three Rivers, Mich.		Louisville (Ky.)	4
Edna Schrick, Holland, Mich.		Robert F. Monroe, Louisville	
Great Falls (Mont.)	8	H. L. Townsend, Louisville	
Lawrence L. Howard, Great Falls, Mont.		Memphis (Tenn.)	15
James D. Morrison, Billings, Mont.		W. A. Ruch, Memphis	
Houston (Tex.)	18	Miami (Fla.)	5
Russell J. Blattner, Houston		Samuel J. Roberts, Miami	
Robert A. Wise, Houston, Tex.		Milwaukee (Wis.)	35
Indianapolis (Ind.)	18	James M. Foerster, Wausau, Wis.	
John R. Haslem, Terre Haute, Ind.		A. W. Hankwitz, Milwaukee	
L. A. Malone, Terre Haute, Ind.		William B. Hildebrand, Menasha, Wis.	
Lloyd Rosenbaum, Anderson, Ind.		Marriott T. Morrison, Mt. Horeb, Wis.	
Jacksonville (Fla.)	2	Henry A. Romberg, Oshkosh, Wis.	
Samuel M. Day, Jacksonville, Fla.		Clair O. Vingom, Madison, Wis.	
Kansas City (Mo.)	190	Minneapolis-St. Paul (Minn.)	26
G. W. Blankenship, Anderson, Mo.		James L. Benepe, St. Paul	
Harry J. Davis, Topeka, Kans.		C. A. Good, Rochester, Minn.	
Stephen Ellis, Coffeyville, Kan.		Archie D. Skemp, La Crosse, Wis.	
George V. Feist, Kansas City, Mo.		Gershom J. Thompson, Rochester	
J. G. W. Fischer, Alma, Mo.		Nashville (Tenn.)	8
Peter O. Fleming, Topeka, Kan.		Robert T. Terry, Nashville	
Louis Kovitz, Kansas City, Mo.		New Orleans (La.)	20
Sidney Pakula, Kansas City, Mo.		T. C. Campbell, New Orleans	
Eugene O. Parsons, Kansas City, Mo.		Edgar H. Little, New Orleans	
Willard C. Schwartz, Manhattan, Kan.		Lyman K. Richardson, New Orleans	
A. Lloyd Stockwell, Kansas City, Mo.		William L. Sellers, Jr., Mobile, Ala.	
O. Earl Whitsell, St. Joseph, Mo.		New York City	94
W. T. Wilkening, Fort Scott, Kan.		J. William Beckmann, New York	
Vincent T. Williams, Kansas City, Mo.		L. F. Bush, Danville, Pa.	
Knoxville (Tenn.)	4	William Ehrlich, Newark, N. J.	
Little Rock (Ark.)	22	Lester J. Evans, Jackson Heights, N. Y.	
Roy F. Baskett, Texarkana, Tex.		Joseph A. Fiorito, New Haven, Conn.	
Jerome S. Levy, Little Rock		Samuel B. Guze, Newington, Conn.	
Grandison D. Royston, Hope, Ark.		Scott Johnson, New York City	
Los Angeles (Calif.)	125	Nathan R. Kahn, Brooklyn, N. Y.	
Clifton H. Briggs, Pasadena, Calif.		Kirby A. Martin, New York	
Joseph B. Clay, Van Nuys, Calif.		Roberts B. Pappenfort, New York	

<i>Trading Area Center</i>	<i>No. of Graduates in Trading Area</i>	<i>Trading Area Center</i>	<i>No. of Graduates in Trading Area</i>
Sydney S. Pearl, Elizabeth, N. J.		San Francisco (Calif.)	86
J. F. Pessel, Trenton, N. Y.		John F. Blinn, Jr., Stockton, Calif.	
Howard A. Plank, New York		Mark J. Brockbank, Petaluma, Calif.	
Bernard Rand, New York City		Joseph Cieri, Piedmont, Calif.	
Minton D. Ritter, Margate City, N. J.		Heinz E. Cron, San Francisco	
Phillip Rosenblatt, New York		Anne T. Goetsch, Berkeley, Calif.	
Oklahoma City (Okla.)	22	Charles H. Hecker, Palo Alto, Calif.	
Rowe F. Bisbee, Ada, Okla.		Elizabeth Lowenhaupt, San Francisco	
C. F. DeGaris, Oklahoma City		R. G. Moles, Hanford, Calif.	
R. M. Van Matre, Oklahoma City		Ernest S. Rogers, San Francisco	
Omaha (Neb.)	15	Walter A. Rohlfling, Fresno, Calif.	
Norman M. Johnson, Clarinda, Iowa		Verne R. Ross, Stockton, Calif.	
L. J. Owen, Lincoln, Neb.		William H. Smith, Colfax, Calif.	
Earl C. Sage, Omaha		David A. Stadtnier, Stockton, Calif.	
Philadelphia (Pa.)	20	Roy W. Thomas, Redding, Calif.	
Craig B. Johnson, Philadelphia		Dwight H. Trowbridge Fresno, Calif.	
Mary Jordan, Ridley Park, Pa.		Savannah (Ga.)	4
Arthur J. Wagers, Philadelphia, Pa.		Seattle (Wash.)	43
Phoenix (Ariz.)	14	William H. Gray, Yakima, Wash.	
Louis G. Jekel, Phoenix		Alvin R. Miller, Seattle	
R. O. Raymond, Flagstaff, Ariz.		C. A. Nielsen, Seattle	
Royal W. Rudolph, Tucson, Ariz.		Paul R. Rollins, Seattle	
John J. Rupp, Tucson, Ariz.		Charles Teel, Bellingham, Wash.	
Pittsburgh (Pa.)	10	William L. Topp, Seattle	
Portland (Me.)	1	Lawrence M. Wilson, Olympia, Wash.	
Portland (Ore.)	30	Shreveport (La.)	3
H. Clagett Harding, Portland Ore.		Sioux City (Iowa)	10
Frank B. Queen, Portland		Bernard S. Clark, Spearfish, S. D.	
Willard D. Rowland, Portland		Spokane (Wash.)	24
Richmond (Va.)	16	Alfred O. Adams, Spokane	
William M. Anderson, Richmond, Va.		Paul B. Nutter, Spokane	
Martin A. Compton, Richmond		W. A. Olds, Colville, Wash.	
Everett C. Drash, Charlottesville, Va.		Syracuse (N. Y.)	5
William C. Dunckel, Charlottesville, Va.		Clayton H. Manry, Syracuse	
W. E. Keiter, Kinston, N. C.		Arthur B. Raffl, Syracuse	
S. B. McPheeters, Goldsboro, N. C.		Henry N. Reid, Rome, N. Y.	
Salt Lake City (Utah)	51	John E. Wattenberg, Cortland, N. Y.	
R. N. Hirst, Ogden, Utah		St. Louis (Mo.)	975
Ceylon S. Lewis, Jr., Salt Lake City		Oliver Abel, Jr.	
W. N. Pugh, Salt Lake City		Helen M. Aff	
C. O'Neil Rich, Salt Lake City		Harry Agress	
R. P. Roantree, Elko, Nev.		Duff S. Allen	
O. Sundwall Murray, Utah		Henry C. Allen	
Warren B. West, Ogden, Utah		Robert L. Andrae, Louisiana, Mo.	
Ray T. Woolsey, Salt Lake City		A. N. Arneson	
San Antonio (Tex.)	17	James W. Bagby	
		James M. Baker, Columbia, Mo.	

<i>Trading Area Center</i>	<i>No. of Graduates in Trading Area</i>	<i>Trading Area Center</i>	<i>No. of Graduates in Trading Area</i>
Paul Baldwin, Kennett, Mo.		David Friedman, Granite City, Ill.	
James W. Barrow, Carbondale, Ill.		W. A. Fries	
Willard Bartlett, Jr., St. Louis		J. K. Frost, Centralia, Ill.	
Alfred K. Baur		Joseph J. Gitt	
Sim F. Beam		Helen Hofsommer Glaser	
William G. Becke		Martin J. Glaser	
Grace Bergner		B. Y. Glassberg	
C. Read Boles		Alfred Goldman	
Donald S. Bottom, Alton, Ill.		Melvin L. Goldman	
Eugene M. Bricker		Samuel W. Gollub	
James Barrett Brown		Leo Gottlieb	
Seymour Brown		R. B. H. Gradwohl	
James H. Bryan		Samuel B. Grant	
Stanley S. Burns		Theodore Greiner	
Louis T. Byars		George E. Grim, Kirksville, Mo.	
Delevan Calkins		Otto H. Grunow	
Cecil M. Charles		Arthur Gundlach	
Raymond M. Charnas		Paul O. Hagemann	
Calvin Clay, St. Charles, Mo.		Willis Hall	
Adolph H. Conrad, Jr.		Guerdan Hardy	
Jerome E. Cook		Carl G. Harford	
Robert J. Cook		Stanley Harrison	
Glover H. Copher		Stanley Hampton	
Justin J. Cordonnier		H. R. Hildreth	
James B. Costen		A. Herman Hutto	
Russel J. Crider, St. Charles, Mo.		William M. James	
Robert J. Crossen		Joseph C. Jaudon	
F. R. Crouch, Farmington, Mo.		J. Ted Jean	
Eric A. Cunningham, Louisiana, Mo.		John T. Johnstone, Jr.	
Andrew Darling		Dorothy J. Jones	
H. M. Denny, Union, Mo.		Louis H. Jorstad	
James A. Dickson		Frederick E. Jostes	
M. A. Diehr		J. P. Keim	
James J. Donohue, E. St. Louis, Ill.		Bruce Kenamore	
Max Deutch		Richard K. Kimmel	
Norman W. Drey		Robert C. Kingsland	
Perry E. Duncan, Springfield Ill.		Walter C. G. Kirchner	
Donald E. Eggleston, Macon, Mo.		O. W. Knewitz, East St. Louis	
Albert B. Eisenstein		Robert E. Koch	
D. B. Elrod, Cape Girardeau, Mo.		Lawrence M. Kotner	
Roy G. Empson, Valmeyer, Ill.		William B. Kountz	
Wallace D. English, Cardwell, Mo.		Edward H. Kowert	
Curtis H. Epps, Springfield, Mo.		C. L. Lawless, Marshall, Mo.	
Edwin C. Ernst		G. Bruce Lemmon, Springfield, Mo.	
B. W. Finkel		Ervan Levine, Vandalia, Mo.	
Walter Fischel		Carl E. Lischer	
I. F. Flance		Ellen S. Loeffel	
N. M. Freund		Joseph Magidson	

<i>Trading Area Center</i>	<i>No. of Graduates in Trading Area</i>	<i>Trading Area Center</i>	<i>No. of Graduates in Trading Area</i>
Guy N. Magness		Selden Spencer	
Morris D. Marcus		Frances H. Stewart	
S. P. Martin, East Pairie, Mo.		Jacob Stolar	
Edward Massie		F. E. Sultzman, Hannibal, Mo.	
Harold E. McCann		Barrett L. Taussig	
H. R. McCarrroll		Robert J. Terry	
John T. McLarney, Brookfield, Mo.		E. H. Theis, Granite City, Ill.	
Frank McDowell		J. William Thompson	
William H. Meinberg		O. W. Towers, St. Charles, Mo.	
Herman M. Meyer		Louis L. Tureen	
Benjamin Milder		H. A. Uhlemeyer, Jr.	
Gordon F. Moore		Frank Vellios	
P. G. Moskop		Roy A. Walther, Jr., Overland, Mo.	
C. Barber Mueller		Helman C. Wasserman	
I. D. Newmark, Chester, Ill.		George L. Watkins, Farmington, Mo.	
Mary Louise Newman, Jacksonville, Ill.		George L. Watkins, Jr., Farmington, Mo.	
Joseph W. Noah		Irvin Weisman, Granite City, Ill.	
R. A. Nussbaum		Richard S. Weiss	
Charles G. Obermeyer		Harvey Lester White	
M. Norman Orgel		Herbert C. Wiegand	
John F. Patton		W. B. Wilcoxon, Bowling Green, Mo.	
Burnet W. Peden		Gary B. Wood	
Virginia H. Peden		George H. Wood, Carthage, Mo.	
F. E. Pennington		Frederick E. Woodruff	
Claude D. Pickrell		Oscar C. Zink	
A. Victor Reese		Tampa (Fla.)	8
Edward H. Reinhard		Roscoe Maxwell, Punta Gorda, Fla.	
John Q. Roane, Carlyle, Ill.		Toledo (Ohio)	4
Melvin A. Roblee		Edward L. Burns, Toledo	
Dalton K. Rose		Tulsa (Okla.)	39
Harry R. Rosenbaum		Alfred H. Hathcock, Fayetteville, Ark.	
David Rothman		Alfred J. Metscher, Enid, Okla.	
Llewellyn Sale		Washington, D. C.	30
Llewellyn Sale, Jr.		Brian B. Blades	
Jay Marvin Salzman, Springfield, Ill.		Harlan I. Firminger, Bethesda, Md.	
John A. Saxton		Wichita (Kan.)	34
Samuel Schneider		Harold S. Bowman, Wichita	
Clive D. Scott, Louisiana, Mo.		William Brewer, Hays, Kans.	
Wendell G. Scott		William P. Callahan, Wichita	
Frederick O. Schwartz		Wilbur G. Gillett, Wichita	
Bernard Schwartzman		A. E. Hiebert, Wichita	
Ben H. Senturia		Irene A. Koeneker, Halstead, Kans.	
Carvel T. Shaw, Hermann, Mo.		Earl L. Mills, Wichita	
Frank O. Shobe		V. A. Mueller, Wichita	
David M. Skilling		David R. Wall, Wichita	
David E. Smith			
Robert M. Smith			

(Concluded on page 41)

DEPARTMENTAL NEWS

Anatomy

Dr. Edmund V. Cowdry, research professor of anatomy, was chosen president-elect of the First International Conference on Gerontology, which met in Liege, Belgium, during July. He is to plan the next international meeting on this subject in St. Louis from September 9 to 14, 1951.

Dr. Cowdry and Dr. Christopher Carruthers, research associate in cancer, attended the Fifth International Cancer Research Congress in Paris, July 15 to 22. Dr. Carruthers gave a paper on qualitative chemical changes in carcinogenesis.

Dr. Mildred Trotter attended the International Congress of Anatomists at Oxford, England, on July 25-28 as official representative of the American Association of Physical Anthropologists.

Bacteriology and Immunology

Dr. I. L. Shechmeister joined the staff as assistant professor on September 1. He came from the University of California at Berkeley, where for the past four years he has been principal bacteriologist of the project on infectious diseases in the Department of Bacteriology there, and in the Office of Naval Research, now the Naval Biological Laboratory located on the Berkeley campus. From 1940 to 1946, Dr. Shechmeister was an officer in the U. S. Navy, stationed with the Navy Medical Research Unit No. 1 at Berkeley. For the year between July, 1949, and July, 1950, he was consultant to the Naval Radiological Defense Laboratory in San Francisco. He holds bachelor's,

master's and doctor of philosophy degrees from the University of California.

Biological Chemistry

Dr. Maurice E. Krahl, associate professor, delivered the Banting Memorial Lecture of the English Diabetic Association in Birmingham, on July 28. His subject was "Hormonal Regulation of Glucose Utilization in Tissues."

The National Academy of Science announced in June the awarding of a joint \$5000 prize to Drs. Carl F. and Gerty T. Cori. The award was made by the Sugar Research Foundation, Inc., for their discoveries in carbohydrate chemistry. The announcement was made by Dr. Harlow Shapley, chairman of the national science fund of the Academy, and pointed out that Dr. and Mrs. Cori have concentrated on the use of carbohydrates and the part enzymes play in the conversion of starches and sugars in the muscle and liver. "The precise methods of investigation," said Dr. Shapley's statement, "led to the discovery of the enzymes phosphorylase and hexokinase, thereby explaining the role of these substances in the intricate conversion of starches and sugars to blood sugar." Dr. and Mrs. Cori jointly received the 1947 Nobel prize in medicine, and Dr. Carl Cori received the intermediate \$5000 Sugar Research Foundation prize, also in 1947.

Internal Medicine

Dr. William B. Kountz was the official representative of the American Geriatric Society at the First International Geront-

tological Conference in Liege, Belgium, during July.

Dr. Carl V. Moore attended meetings of the International Society of Hematology at Cambridge, England, August 21-26.

Dr. Arthur Strauss attended the International Physiological Congress in Copenhagen, Denmark, August 15-18, and the First International Cardiac Congress in Paris, September 3-9.

Dr. William H. Daughaday is now the full-time director of the Metabolism Section and assumed duties of this position on July 1. He is instructor in medicine and assistant physician on the Barnes staff.

Neuropsychiatry

Dr. Ivan N. Mensh, assistant professor of medical psychology, attended a conference on research on ageing at the University of California in Berkeley, August 7-10. He participated in discussions on biology and problems of ageing.

Obstetrics-Gynecology

Dr. Willard M. Allen, professor of obstetrics-gynecology, was awarded a Centennial Citation by the University of Rochester (N. Y.) at that university's Centennial Alumni-Alumnae Convocation on June 10. He was one of 13 graduates of Rochester so honored and was cited for "becoming the first graduate of our own medical school to assume a top professorship in another school." Dr. Allen received his master's degree from Rochester in 1929 and his M.D. degree there in 1932. He joined the faculty here in 1940.

Dr. Seymour Monat spoke at the

Post-Graduate Session of the University of Arkansas Medical School in Little Rock on June 14, on obstetrical analgesia and anesthesia and cancer of the cervix.

Ophthalmology

The eight-month postgraduate course beginning September 18 has eleven enrolled.

Dr. Paul W. Miles, instructor in ophthalmology, received in July a \$2000 grant in aid from the Univis Lens Co. of Dayton, Ohio, for research on trifocal glasses. Dr. Miles spoke on "Flicker Fusion Fields in Neuro-Ophthalmological Lesions" at the Association for Research in Ophthalmology meeting at San Francisco in June.

Dr. M. Hayward Post, professor of clinical ophthalmology, represented Washington University at the International Congress of Ophthalmology held in London, England, July 17 to 22. He was accompanied by Mrs. Post and their son, Martin, and later visited in Belgium, Denmark, France and Switzerland.

Otolaryngology

Nine students are enrolled in the long-term postgraduate course which began on September 11.

Dr. David De Weese of Portland, Ore., visited the Department during the week of October 2.

Pathology

Dr. Robert A. Moore and Dr. Frank J. Dixon presented a paper on tumors of the testes at the International Cancer Research Congress in Paris during July.

Dr. Moore gave the principal address at the annual dinner of the Association

of Clinical Pathologists in Leeds, England, on July 21. He spoke on "Medicine and the Peace of the World." The dinner was in honor of Matthew Stewart, who retired as professor of pathology and dean at Leeds University.

Pediatrics

Two pediatrics staff members recently have accepted positions as full professors of pediatrics in other medical schools, bringing to three the number of men trained at W. U. who have taken over these responsible positions within the last three years.

Dr. Gilbert B. Forbes, associate professor, has accepted a position as professor of pediatrics at Southwestern Medical College in Dallas, Texas, effective November 1. Dr. Forbes has been associated with the staff in pediatrics here since 1942, when he was appointed assistant. He was made instructor in 1943, assistant professor in 1947 and in July of this year became associate professor.

Dr. Merl J. Carson assumed his new position of physician-in-chief of the Los Angeles Children's Hospital and professor of pediatrics at the University of Southern California on the first of July. He had been assistant dean and director of the Division of Postgraduate Studies since 1947. Dr. Carson first joined the faculty in 1940 as assistant in pediatrics and was promoted to instructor in 1945 and assistant professor in 1947.

Dr. Russell J. Blattner '33 is professor of pediatrics at Baylor University Medical School in Houston, Texas, and assumed his present position in 1947

after 14 years on the W. U. staff in pediatrics. He was associate professor when he left to take the Baylor post.

Physiology

Dr. Adolph Surtshin of the Departments of Physiology and Gerontology, attended the International Physiological Congress in Copenhagen, August 15-18, and presented a paper on "The Influence of Chronic Unilateral Renal Artery Construction on Sodium Excretion," which was prepared with Drs. C. Barber Mueller '42, M. Richard Carlin and Harvey L. White '20. Dr. Surtshin also attended the First International Cardiac Congress in Paris, Sept. 3-9, where he spoke on "The Relation of Glomerular Filtration Rate to Sodium Excretion and the Problem of Edema in Cardiac Failure."

Members of the staff who attended the American Physiological Society meeting in Columbus, Ohio, in September were Drs. Harvey L. White, Arthur S. Gilson, Jr., Frederick W. Klinge, Gordon M. Schoepfle and Miss Doris Rolf.

Dr. Gilbert Causey of the Department of Anatomy at University College in London, England, arrived in September to work with Dr. Joseph Erlanger on radioactive phosphorus distribution in peripheral nerves. He is on a Rockefeller travelling fellowship grant and plans to be in St. Louis about two months.

Preventive Medicine

Dr. Virgil Scott returned to the department after more than a year's absence to resume his position as assis-

tant professor of medicine and of preventive medicine, on September 1. He was director of the United Fruit Company employees' hospital in Telas, Honduras, from July, 1949, until his return.

Radiology

A new diagnostic unit to be used primarily for pediatric radiology was installed the latter part of August on the ground floor of the Mallinckrodt Institute. The new unit is of latest design, including the use of photo-electric timing, and is the only one in St. Louis with such timing. Its capacity is rated from 300 ma. to 125 KV. Dr. Wayne Simril spent the month of August at Children's Medical Center in Boston studying their methods of diagnostic roentgenology as applied to children.

The American Roentgen Ray Society held its 50th anniversary meeting in St. Louis, September 24 to 29. The Society was founded in St. Louis in 1900 by Dr. Hebar Robarts, who was president for the first two years and died in E. St. Louis in 1922 from effects of his radiological research. Dr. Wendell G. Scott '32 was chairman of the committee on local agreements for the anniversary meeting. Staff members participating in the program were Drs. Scott, Lauren V. Ackerman, A. N. Arneson '28, James Barrett Brown '23, Louis T. Byars '32, Leonard T. Furlow, Otto H. Grunow '40, Frank McDowell '36, Henry G. Schwartz, William B. Seaman, Wayne Simril '44, and Carl Wattenberg.

Dr. Martin D. Kamen, associate professor of radio-chemistry, was chairman of the symposium on photosynthesis at the American Chemical Society meet-

ing in Chicago during September. He recently received a grant of \$5000 from the Kettering Foundation in support of his research on photosynthesis.

Surgery

The American Medical Association's Distinguished Service Award for 1950 was presented to Dr. Evarts A. Graham, professor of surgery, during the convention in June at San Francisco, for his work in lung surgery for cancer.

Dr. C. Malone Stroud Dies of Accidental Wound June 24

Dr. C. Malone Stroud, instructor in clinical medicine, died almost instantly at 4:30 a. m. June 24 following the accidental discharge of a shotgun at his home. He was packing equipment for a deepsea fishing trip and was alone.

A graduate of the School of Medicine here in 1926, Dr. Stroud served his internship at Barnes Hospital and joined the staff of the Medical School in 1929 as assistant in clinical medicine. He was promoted to instructor in 1932.

A specialist in allergies, Dr. Stroud had practiced in St. Louis for 22 years and served as president of the St. Louis Society for Crippled Children from February, 1948, until his death.

Dr. Stroud was a native of Mississippi, and was graduated from the state university there.

Wounded in the chest, Dr. Stroud, who was 46, was pronounced dead by Dr. Rogers Deakin '22, who lives across the street from the Stroud home at 6232 McPherson Ave., St. Louis. Surviving Dr. Stroud are his widow, three sons and two daughters.

PUBLICATIONS OF THE FACULTY — July - September, 1950

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Letter from English Alum

An interesting letter from Dr. Kenneth F. Wood recently arrived in the Alumni Office. The QUARTERLY keeps him posted on events at the Medical School and among the alumni, and he writes:

"Being so far away from St. Louis, it is very difficult to do anything but take a passive, but I might add a very keen,

interest in the doings of past and present students.

"However, may I make a standing offer of help professional or social, to any member of the Alumni Association who may require information from or think of visiting this part of the world."

Dr. Wood's address is 21a Batcliffe Drive, Far Headingley, Leeds 6, England.

ALUMNI NEWS

1893

Cornelius A. Mann recently moved to 1416 Moncado, Calif.

1894

Horace W. Soper of St. Louis served as president of the National Gastroenterological Association, which met in New York City, October 9-11. Dr. Soper was one of the founders of the American Gastroenterological Association, and in 1906 and 1907 studied gastroenterology in Berlin and Vienna.

1907

Sydney M. MacLean, who retired in 1945, now lives in Daytona Beach, Fla., at 336 S. Palmetto St.

1915

C. Curtis Allen has moved from Wichita Falls, Tex., to Vernon, Tex., where he is associated with the Shipman Clinic at 2500 Wilbarger St.

1920

Frederick A. Jostes of St. Louis and the Medical School staff, Dr. Kellogg Speed of Chicago, and Dr. Gordon Morrison of Boston received special commendation from the Committee on Scientific Awards of the A.M.A. for the six-booth fracture exhibit they presented during the June convention in San Francisco. Dr. Jostes also gave a paper on fractures about the ankle joints as part of a symposium before the Section on General Practice at the meeting.

1925

Einor H. Christopherson has been appointed Executive Secretary of the American Academy of Pediatrics. He will serve with Dr. Grulee until the latter's retirement July 1, 1951, and then will assume full duties of his position. Following training at Missouri Baptist and St. Louis Children's Hospitals, Dr. Christopherson was a company physician for the American Smelting and Refining Company refinery in Garfield, Utah. Since 1930, he has practiced pediatrics in San Diego, Calif., and has served as chief of pedi-

atrics at San Diego County General Hospital and Mercy Hospital. He is past chairman of the San Diego Pediatric Society and of the Pediatric Section. California Medical Association. From 1942 to 1946, he was in the Army Medical Corps as Captain, Major and Lt. Colonel and was attached to the Office of Inter-American Affairs. From 1943 to 1945, he was on duty in Brazil. Dr. and Mrs. Christopherson will live in Chicago or the near vicinity. They have two grown children, a son and a daughter.

1927

Philip K. Allen recently announced the association of Roberts B. Pappenfort '43 (March) in a practice specializing in diseases of the skin and skin cancer. Both are diplomates of the American Board of Dermatology and have their office in the Medico-Dental Building, San Diego, Calif.

1928

John F. Patton of St. Louis recently visited Veterans Administration Hospitals at Muskogee, Okla., Fayetteville, Ark., and Springfield, Mo., as area consultant in urology. He participated in the educational program, giving a paper on "Tumors of the Renal Pelvis."

Samuel Soule of St. Louis spoke to the Piasa regional chapter of the American Academy of General Practice in Alton, Ill., during June, on outstanding obstetrical emergencies.

Richard D. Kepner has moved to a new address in Honolulu: Post Office Box 3119.

1929

Lee N. Hamm of Lincoln, Ill., visited the Alumni Office during a trip to St. Louis on September 6.

1932

Wendell G. Scott was chairman of the first session of the Section on Military Medicine and Surgery during the June A.M.A. meeting. He reported that it is the hope of the group to make this first meeting the forerunner for the estab-

lishment of a permanent section on this subject. James Barrett Brown '23 participated in a discussion on high intensity thermal burns during the session.

Carl V. Moore, professor of internal medicine at the Medical School, will take part in a national research program designed to develop improved methods of separating and preserving blood components for use in the event of atomic disaster.

1935

Edward Massie recently moved his offices to 457 N. Kingshighway in St. Louis.

1936

Vernam T. Davis, Jr., and Mrs. Davis, a graduate of the Nursing School, stopped by the Alumni Office while visiting in St. Louis on Sept. 18. Their address is: U. S. Marine Hospital, Staten Island, New York.

1937

The current address of **Eldred L. Gann** is Route 4, Maple Road, Kansas City, Kans.

1938

Alexander Mueller, who is associated with the Shelton Clinic in Los Angeles, visited the Alumni Office while in St. Louis on August 31. His home address is 3306 Colbert Ave., Los Angeles 34.

1939

Robert E. Shank, professor of preventive medicine and public health and head of that department, has been appointed to the Food and Nutrition Board of the National Research Council for a one-year term. Dr. Shank joined the Medical School staff in July, 1948, and formerly was with the William H. Park Laboratories in New York City. His home is at 4 Garden Lane, Kirkwood, Mo.

John W. Dix recently moved from Coral Gables to Miami, Fla., where his address is 3648 Matheson Ave.

Robert H. Greeley is now at 725 Fourth St., Marysville, Calif.

Harry B. Campbell's address is 710 E. Beckwith, Missoula, Mont.

1940

Robert E. Koch recently announced the removal of his office from the Beaumont Building in St. Louis to 35 N. Central Ave., in Clayton, Mo. His practice is limited to internal medicine.

1942

Charles E. Lockhart has offices in the Medical Arts Building in Springfield, Mo.

Alex Harell, who is assistant in physical medicine and in orthopedic surgery at the Medical School, is on leave of absence for the six-month period beginning August 15 to do work at the orthopedics hospital in Logan, W. Va.

The University of Colorado, School of Medicine recently announced the appointment of **Dr. Ewald W. Busse**, as director of the division of psychosomatic medicine there.

Upon receiving his degree, Dr. Busse interned at St. Louis City Hospital. He entered the Army in 1943 and during his service worked in the field of neuropsychiatry. In 1946 he joined the faculty staff at University of Colorado School of Medicine. While there Dr. Busse became chief of the Electroencephalograph Laboratory at the Medical Center, special consultant in neuropsychiatry to Denver University and Veterans Administration consultant.

1943

Edward H. Kowert recently was married, and he and Mrs. Kowert now are living at 4924 Buckingham Court in Clayton, Mo., following a honeymoon in Marblehead, Mass.

Walter A. Rohlfing, Jr., and Mrs. Rohlfing (the former Dorothy Tracey, A.B. '42) welcomed their fourth child, Gretchen Anne, on Dec. 4, 1949. He is director of the General Hospital of Fresno County (California).

Roberts B. Pappenfort, Jr., completed his residency in dermatology at Columbia-Presbyterian Hospital in New York during the summer and is associated with

Philip K. Allen in San Diego (see class of 1927).

Dallas Anthony can be reached at 933 S. Pickwick, Springfield, Mo.

1944

Wayne Simril's address is 4952 Maryland Ave., in care of Wendell G. Scott '32, in St. Louis.

The engagement and forthcoming marriage of **Virgil Loeb, Jr.**, and Miss Lenore Harlow was announced recently. Dr. Loeb is research fellow in the hematology section of the Department of Medicine at the Medical School; Miss Harlow has been a research assistant in the Department.

1945

William F. Johnson is in Springfield, Mo., on Route No. 9, Box 27, 522 Maple Lane.

Samuel P. Ivins recently moved from Farnhurst, Del, where he was with the Delaware State Hospital, to 601 W. 9th St., Chester, Pa.

The address of **Robert Sylvester, Jr.**, is 375 E. Town St., Columbus, Ohio.

1946

Glenn Richardson is now in Alexander City, Ala.

Rutledge C. Schropp recently was named assistant medical director of the Bankers' Life Company in Des Moines, Ia.

1947

William D. Love recently moved from St. Louis to 4301a Perlita, New Orleans, La.

Albert G. Smith's address is Box 160, Bard Hall, 50 Haven Ave., New York City (Columbia University College of Physicians and Surgeons).

1948

A. W. Hulme recently moved to 1432 Corona Dr., Inkster, Mich.

James F. Nickel can be reached at the Wade Stephens Co., No. 9 E. Main St., Idabel, Okla.

Frank Norbury is in the Department of Psychiatry at Strong Memorial Hospital, Rochester 7, N. Y.

Rudolph Maffei is now in Portland, Oregon, at 2311 S. W. 5th St.

James T. Brown is associated with the Institute of Living, in Hartford, Conn.

A. G. Sartorius and Mrs. Sartorius are living at 502½ Oxford Ave., Dayton, O., where he is resident physician in obstetrics-gynecology at Good Samaritan Hospital.

Everett R. Lerwick has moved from Long Island, N. Y., to the Curtis Hotel, Minneapolis, Minn.

Purdue L. Gould is a captain in the Army Medical Corps and is chief surgeon of a mobile surgical hospital which was in action in Korea. In a letter to his parents in St. Louis, he said the unit had performed 480 major operations in 21 days, with only 11 deaths. "We arrived at Pusan July 6 and moved the next day to Taejon," he wrote. "We left there in a big hurry just two hours ahead of the enemy. Yesterday we were visited by no less than General MacArthur and as chief surgeon I had to show him around."

1949

Warren L. Felton II and Mrs. Felton (Dorothy Rodenhous, R.N. '47), are the parents of their first child, a son, Warren L. Felton III, who was born May 23 in New Haven, Conn.

Dormitory Fund Contributors

(Continued from page 30)

- Wirt A. Warren, Wichita
- George S. Wilson, Enid, Okla.
- Outside United States 34
- M. A. Brennecke, Waimea, Kauai, T. H.
- H. M. Chandler, Waipahu, T. H.
- L. R. Fernandez, Laupahoehoe, T. H.
- Herbert H. Gass, India
- H. A. Geitz, Monterrey, N. L., Mexico
- Kiyoshi Inouye, Honolulu, T. H.
- R. D. Kepner, Honolulu, T. H.
- Eichi Masunaga, T. H.
- Kazuo Miyamoto, Honolulu, T. H.
- James W. Owen, Jr., Guam, M. I.
- Richard Y. Sakimoto, Honolulu, T. H.
- Sam R. Wallis, Kauai, T. H.

In Memoriam

1883

Enoch R. Weaver of Bristow, Oklahoma, passed away on June 25, 1950.

1887

News has been received of the death of **Dr. John J. C. Kessenger**, who died at the age of 85 of pneumonia contracted while recovering from a broken leg. He practiced in various towns in Colorado and at the time of his retirement was practicing in Limon, Colo. In July, 1946, he was presented with the 50-year jewel of the Masonic lodge, and on April 15 this year he and Mrs. Kessenger celebrated their 60th wedding anniversary. He is survived by his wife and three children.

1893

The Post Office Department has informed the Alumni Office that **Charles E. Riseling** of Murphysboro, Ill., is deceased.

1898

John A. Russell of Auburn, California, died June 21, 1950, following a paralytic stroke suffered several months earlier. Dr. Russell had practiced in Auburn since 1919 and at one time served as superintendent of the Placer County Hospital there. In addition to his professional work, Dr. Russell was actively interested in local civic and educational affairs. He is survived by his widow, two sons and two daughters.

1904

George B. Kroeger of 8211 Gannon

Ave., University City, Mo., died July 7 of a respiratory ailment. He had retired in 1946 after more than 40 years as a surgeon and practicing physician in St. Louis. He is survived by his widow and one son.

1905

Walter Fischel of St. Louis passed away July 22 (see article elsewhere in this issue).

1911

Oda O. Smith, who lived in Normandy, Mo., passed away on January 1, 1950.

1913

Otto H. Schwarz of St. Louis passed away August 19, 1950 (see article elsewhere in this issue).

1915

Julius A. Rossen, 4356 Lindell Blvd., in St. Louis, died August 17, 1950, of a heart ailment at Jewish Hospital at the age of 58. He was a faculty member at St. Louis University Medical School for 24 years before retiring from teaching in 1946 and was on the staff at Jewish Hospital and St. Mary's Hospital.

1926

C. Malone Stroud of St. Louis passed away on June 24, 1950 (see article elsewhere in this issue).

1927

Alfred J. Metscher of Enid, Oklahoma, passed away on March 14, 1950.

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