

OCTOBER 1957

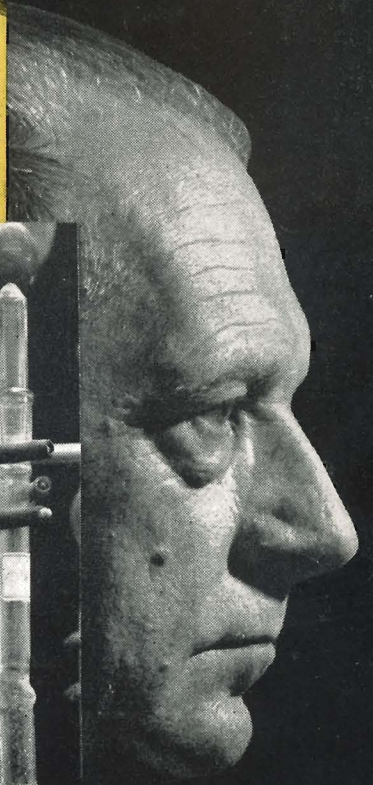
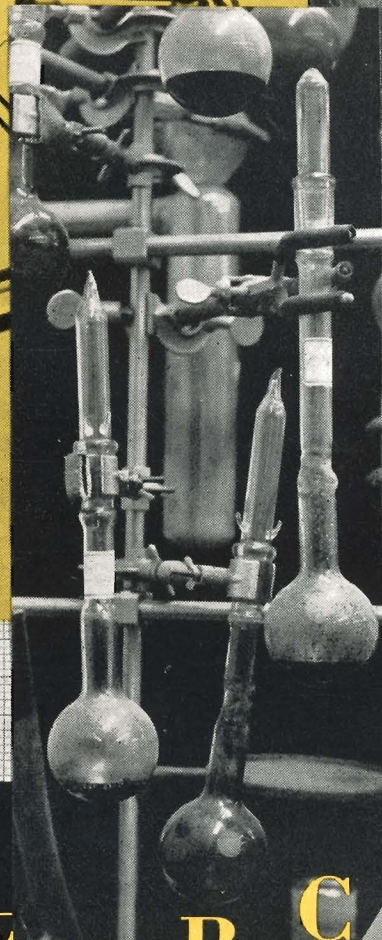
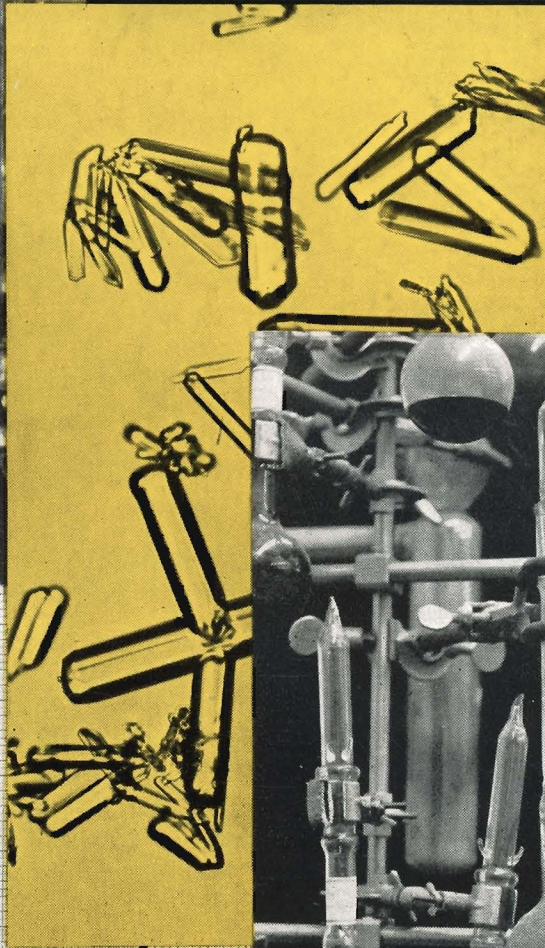
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WASHINGTON UNIVERSITY

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RESEARCH

preceding publication every Friday.

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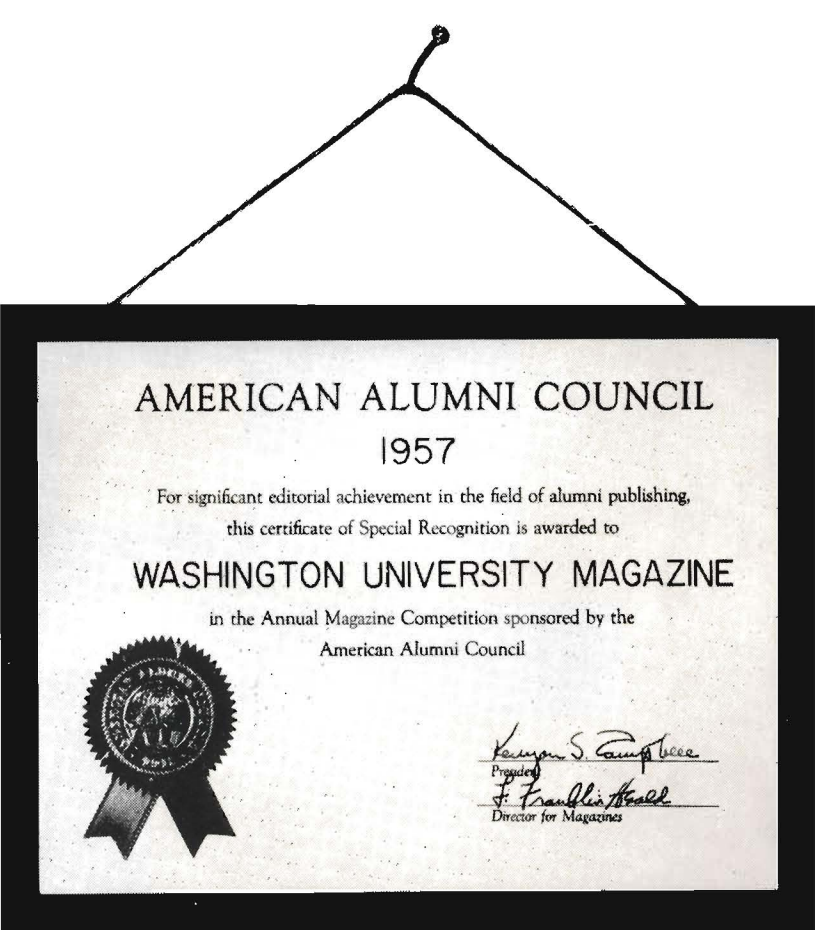
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# THE BULLETIN BOARD



The *Washington University Magazine*, redesigned during 1956-57 in format and content, won a special recognition award in a publications competition sponsored by the American Alumni Council at the council's 42nd general conference June 30 to July 4 in Pasadena, Calif. The magazine was cited "for significant editorial achievement in the field of alumni publishing."

Two honorable mention awards were also given for the magazine's appearance and featured articles. "St. Louis on the March," a profile of St. Louis Mayor Raymond R. Tucker, BSME 20, written especially for the *WU Magazine* by William K. Wyant Jr., *St. Louis Post-Dispatch* writer, was cited for excellence. The article appeared in the February issue.

The *WU Magazine* competed with college and university publications of 30,000 or more circulation.

If you are not interested workshop yourself, please to someone who may be

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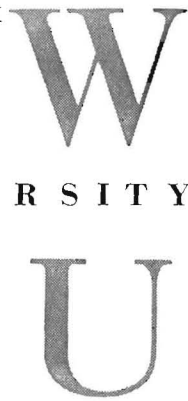
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WASHINGTON UNIVERSITY

Published for Alumni and Other Friends of Washington University

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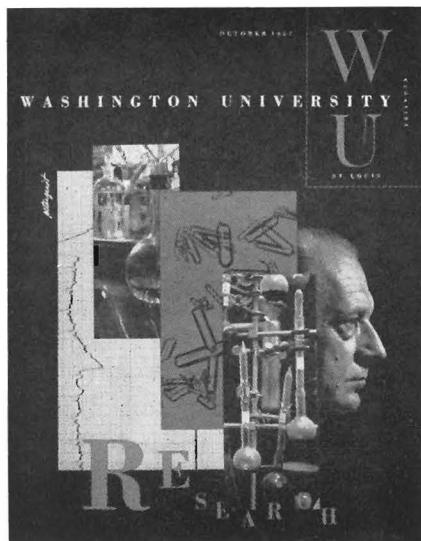
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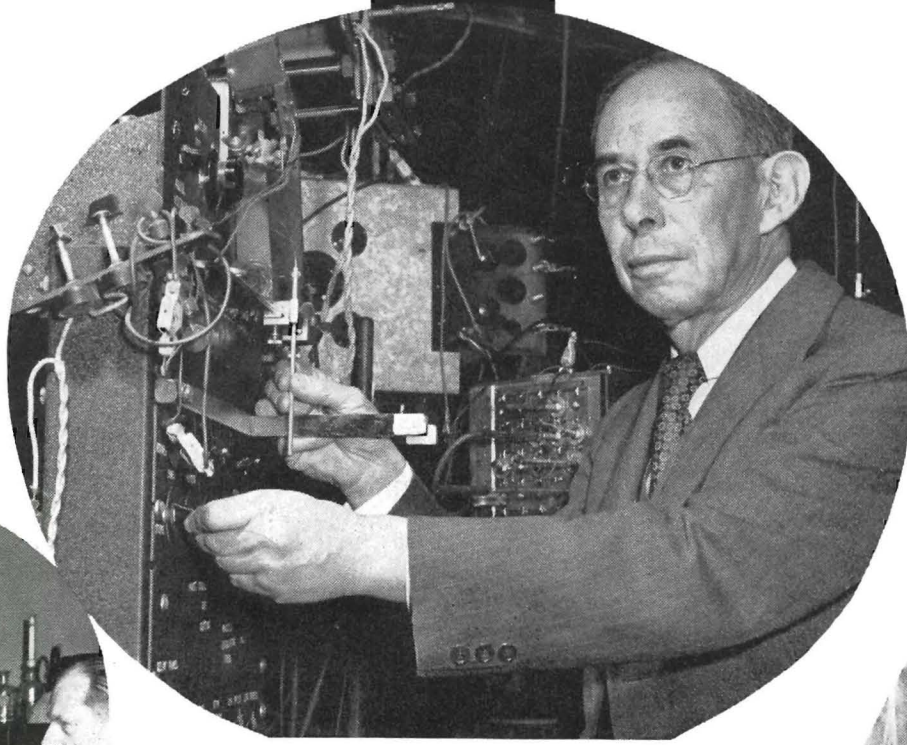


RESEARCH. Cover for the October *WU MAGAZINE* sounds the theme for a series of five articles on research at Washington University. First of the articles, on the health sciences, appears this month. The profile is that of Dr. Carl F. Cori, professor of biochemistry at the School of Medicine, who with his wife Dr. Gerty T. Cori, won the 1947 Nobel Prize in Medicine. Muscle enzyme crystals shown in the center photo were a part of the Cori's prize-winning work on enzymes.

Picture Credits: Herb Weitman (Cover, inside front cover, 2, 4, 6, 8, 14, 16, 17, 18, 19, 20, 24, 26, 28, 30, 32); Edwyn Portrait, St. Louis (30); *St. Louis Globe-Democrat* (22); *St. Louis Post-Dispatch* (28); Union Electric (22); U.S. Army Photo (30); Wide World Photo (24); WU School of Dentistry (28); Charles Tretts, inside back cover (football).

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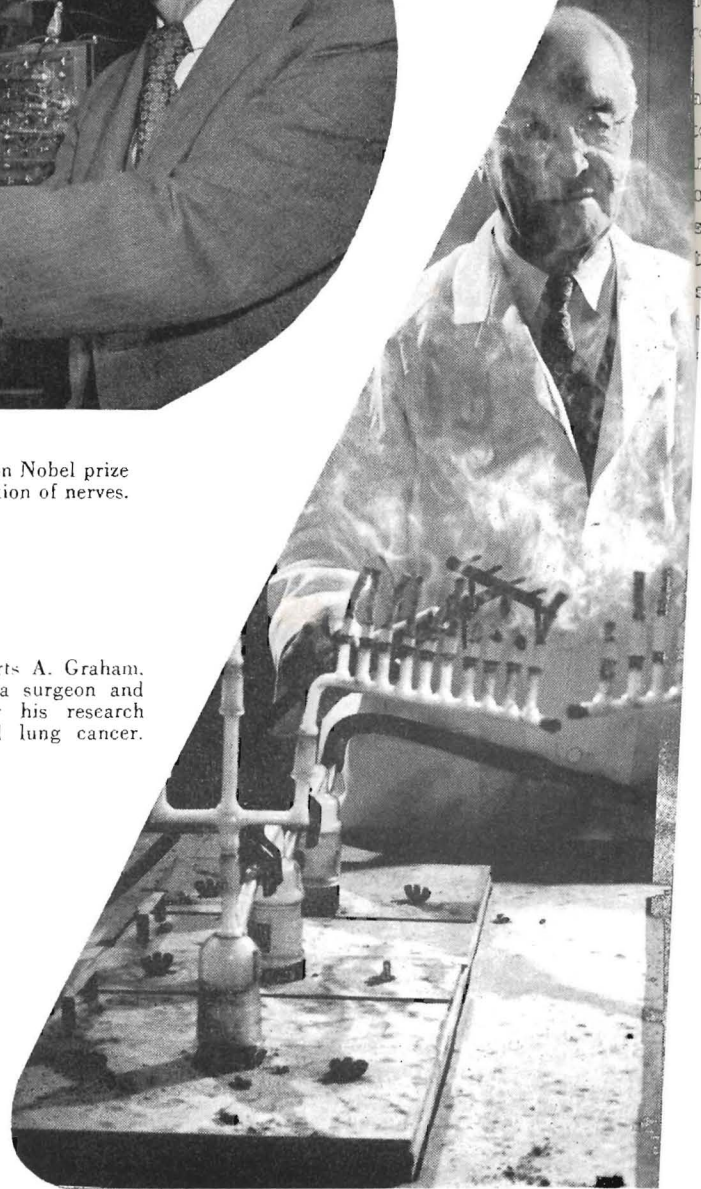
FIRST IN A SERIES OF FIVE ARTICLES  
DEVOTED TO UNIVERSITY RESEARCH.



Dr. Joseph Erlanger won Nobel prize  
in 1944 for study on action of nerves.



Drs. Gerty and Carl Cori  
won the 1947 Nobel Prize in  
medicine for their research  
in carbohydrate metabolism.



The late Dr. Evarts A. Graham,  
widely-known as a surgeon and  
scientist and for his research  
on cigarettes and lung cancer.

## 250 Projects in Progress on Kingshighway Campus

# WU RESEARCH IN HEALTH SCIENCES

If the 83 medical schools in the United States were ranked in order of excellence, Washington University School of Medicine would stand among the top five. Along with Johns Hopkins, Harvard, Columbia and Cornell, Washington University has an international reputation in medicine. A reputation of this sort is not easily achieved nor easily maintained. One of its bulwarks is research.

A good teaching program is, of course, essential, but any medical or dental school that confined itself simply to the thorough and competent instruction of undergraduates would soon find itself barren—barren of faculty, of financial support and, in the end, of students. The school must take part in the world-wide scientific effort to find out what the facts are. Proper emphasis on research attracts the ablest men in a given field, brings in the money that makes research possible and keeps the curriculum from drying out.

There is no exaggeration, then, in the statement that Washington University's past achievements in the health sciences are a principal basis for the solid reputation that has been won, and that, so far as the future is concerned, much will depend on the quality of research effort that is carried on. An examination of the current program is reassuring. The University now has in progress more than 250 separate research projects in the health sciences—in the Medical School, in the School of Dentistry and in the School of Nursing. Funds available for the work show a substantial increase.

In the case of the School of Medicine, research grants from the United States Public Health Service and various private foundations have increased by nearly 300 per cent in five years. The total of such grants was \$618,950 in 1951-52. In 1956-57 the total was \$1,798,860. These sums are in addition to money that each department of the school budgets for research work that is being pressed by personnel of the departments.

Looking back over what has been accomplished in the last several decades, one immediately thinks of a number of outstanding pieces of work. Dr. Joseph Erlanger, professor emeritus of physiology, and Dr. Herbert S. Gasser,

former professor of pharmacology, shared the Nobel Prize in medicine and physiology for 1944 for their study on the action of nerves. Dr. Carl F. Cori and Dr. Gerty Theresa Cori, both professors of biochemistry, won the 1947 Nobel Prize in medicine for their research in carbohydrate metabolism. There are the late Dr. Evarts A. Graham's achievements as a surgeon and scientist.

But it is impossible to say with any degree of assurance what might turn out to be the most important research now going on in the laboratories and the clinics on Kingshighway boulevard and in affiliated hospitals in the city.

The scientist, because he is a scientist, is profoundly skeptical of generalities and reluctant to suggest a practical or "clinical" application for his findings. He seeks to add a bit of solid mortar to the structure of what is known. He is aware always of his debt to previous workers in his field and to the other scientific disciplines that relate to his own. He becomes conditioned to failure and accustomed to working in a world that is at once too immense and complex for the imagination to grasp, and too small for the eye to see.

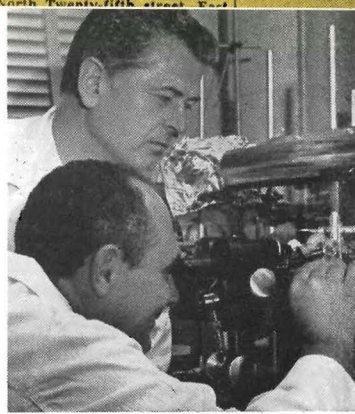
Nevertheless, there is an element of urgency about the health sciences because they so directly concern human life and suffering. When will the "break-through" on cancer come? What can be done to head off diseases of the heart and blood vessels? Does the key to mental illness lie in chemistry? An extraordinary number of the Washington University research projects relate to various aspects of the cancer problem. Others have to do with the cardiovascular system, the brain and other areas.

In one article it is impossible to discuss all of the research projects being conducted by investigators at the Medical Center, just as it is impossible to point with assurance to the ones which will have the greatest effect on the future of medicine. However, the impressive quality of the research can be indicated by an elaboration of several of the more than 250 current projects.

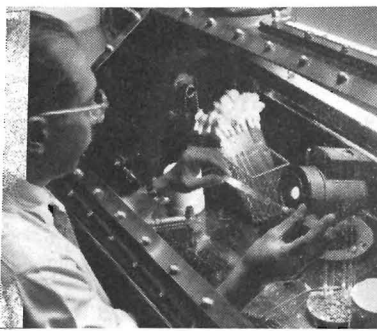
One of the more significant and interesting investigations is the deoxyribonucleic (DNA) study being carried



Dr. Arthur Kornberg heads department of microbiology.



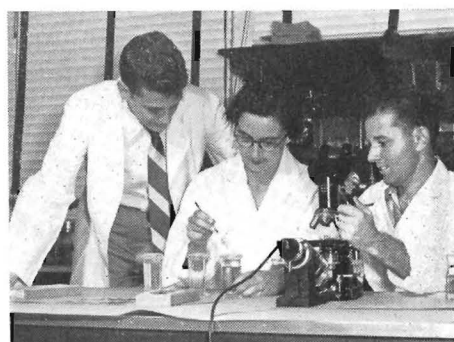
Dean of the Medical School Oliver H. Lowry, top, with Dr. Eli Robins, associate professor of psychiatry.



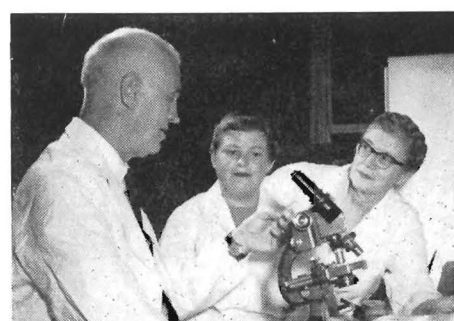
Dr. Theodore Rosebury is a professor of bacteriology at the School of Dentistry.



Dr. W. Stanley Hartroft, professor and head of pathology department.



Medical School student Gordon Miller, right, works on a research project with Dr. Phyllis M. Hartroft and Dr. A. Duncan Chiquione.



Dr. Edmund V. Cowdry, director of the Wernse Cancer Research Laboratory, Adele Croninger, AB 43, MA 48, center, and Dr. Valentina Suntzeff, research associate.

on by Dr. Arthur Kornberg, professor and head of the department of microbiology, and his associates. This group includes Dr. Israel R. Lehman and Dr. Maurice Bessman, research fellows, and Mrs. Kornberg and E. S. Simms, research assistants. The team's research already has attracted international attention and borne tangible fruit.

DNA is a substance in the nuclei of all cells that is believed to carry the genes from one generation of cells to the next and thus is responsible for building in the new individual cell the characteristics of the old. It is a highly complex and large molecule and, being complex, has never been well understood. One approach to learning more about it was to learn to build it. Dr. Kornberg and his group started with certain sugars and other component parts and undertook to synthesize, or manufacture, DNA in the laboratory. Not long ago they succeeded.

"This was the first time anybody had ever manufactured the stuff—it was an enormous step forward," Dr. Edward W. Dempsey, assistant to the dean of the School of Medicine, commented recently. Dr. Dempsey is professor and chairman of the department of anatomy as well as chairman of the fellowships and awards committee.

DNA is important in the battle against cancer because it is believed that cancer represents some kind of abnormality of DNA. Normally a cell forms another cell of the same kind. In cancer, the process by which characteristics are transmitted goes awry. There is a genetic change, and the cancer cell perpetuates itself. Any information about what DNA is and how it operates obviously is pertinent to solution of the cancer puzzle.

Heart ailments, as is well known, cause more deaths than cancer. In the last five or six years scientists have noted an apparent relationship between the kind of fat that people eat and their vulnerability to coronary occlusion and arteriosclerosis. It was observed that the blood of people who had this type of heart condition contained a large amount of fat of a certain chemical size and composition, and that in damaged areas of the heart and blood vessels there were plaques of almost pure fat. The suggestion was that a high fat diet causes high blood fat, which in turn causes deposits in the arteries. Fat, however, is only one factor which influences heart disease and there is a great difference of opinion about the relative importance of the many causative factors.

Last March Dr. Walter Stanley Hartroft, Mallinckrodt professor and head of the department of pathology, and Dr. Wilbur A. Thomas, associate professor in the department, reported to a meeting of the American Medical Association that they had produced coronary occlusions and other vascular changes in rats by feeding them a special diet which, among other things, was high in saturated or animal fat. Coronary occlusion had not been produced in experimental animals by dietary means before. and

the feat of the Washington University team was a notable first. The Washington University scientists also have found that apparent protection was afforded some rats from the development of heart or vascular trouble when vegetable oil, such as corn oil, was added to the diet. Further experiments are under way to test the validity of this latter observation.

The Hartroft-Thomas work with animals supports the thesis that the ingestion of certain kinds of fat may be an important factor in heart disease in human beings. It suggests further that people may be able to follow a diet normal in fat without harmful effects provided they also take vegetable fats. This is an example of scientific work with animals in which the findings have a rather immediate applicability to human health, even though the scientists directly involved in the work may not draw the moral. Indeed, great care is needed to prevent such work from being used to support the opinions of food-faddists.

Many of the University's health science projects involve two or more departments, each bringing its special knowledge to the problem at hand. Dr. Eli Robins, associate professor of psychiatry, and Dean Oliver H. Lowry, professor and head of the department of pharmacology, are teamed up in work intended to show whether behavioral abnormalities are correlated with chemical abnormalities in the brain. Physicians and scientists long have assumed, as a matter of logic, that certain ailments affecting the brain—multiple sclerosis, for example—were accompanied by chemical change in the brain. Specific information, however, was lacking as to what the changes were and how extensive they were.

Dr. Lowry has invented a number of instruments for making exceedingly fine and delicate measurements in the laboratory. One of these is the quartz fiber balance, which consists of a filament of quartz like a glass thread. One end is fixed to a support. The other end, which hangs free and is slightly bowed with its own weight, has a tiny weighing pan. With such a device calibrated and viewed under the microscope, it is possible to weigh a dissected-out part of a cell. Measurements to the billionth of a gram are commonplace. The Lowry balance has special applicability to research on brain tissue, where structure varies from area to area in type and composition of cells.

Applying the new techniques, Dr. Robins and Dr. Lowry now can analyze single nerve cells of the brain for enzyme content and for the lipid components of the myelin sheath, the fatty envelope surrounding nerve fibers. They can analyze the chemical changes taking place in the enzymes and myelin sheath where degeneration is taking place. One of the objectives is to establish the normal chemical composition of the normal brain cell to provide a baseline for evaluating changes caused by disease.

Some of the school's psychiatric projects deal with life outside the laboratory and the clinic. Dr. Robins also is

involved in a study of suicide. In the study, psychiatric personnel interview on two occasions the families of persons who have taken their own lives. The first interview takes place as soon as possible after the event and the second about six months later. Findings may provide information on the stresses that accompany these tragedies.

\* \* \* \*

At Washington University School of Dentistry research is oriented, naturally enough, toward that profession's area of responsibility, but its subject matter is exceedingly complex and diverse. Dr. Theodor Rosebury, professor of bacteriology at the School of Dentistry, received a \$10,000 National Science Foundation grant early this year for continued support of his studies on the way micro-organisms, especially those of the mouth, influence one another. The foundation has supported this work for three years.

Another three-year grant of \$27,400 from the National Institutes of Health is enabling Dr. Rosebury to carry on another research project concerning micro-organisms of the mouth.

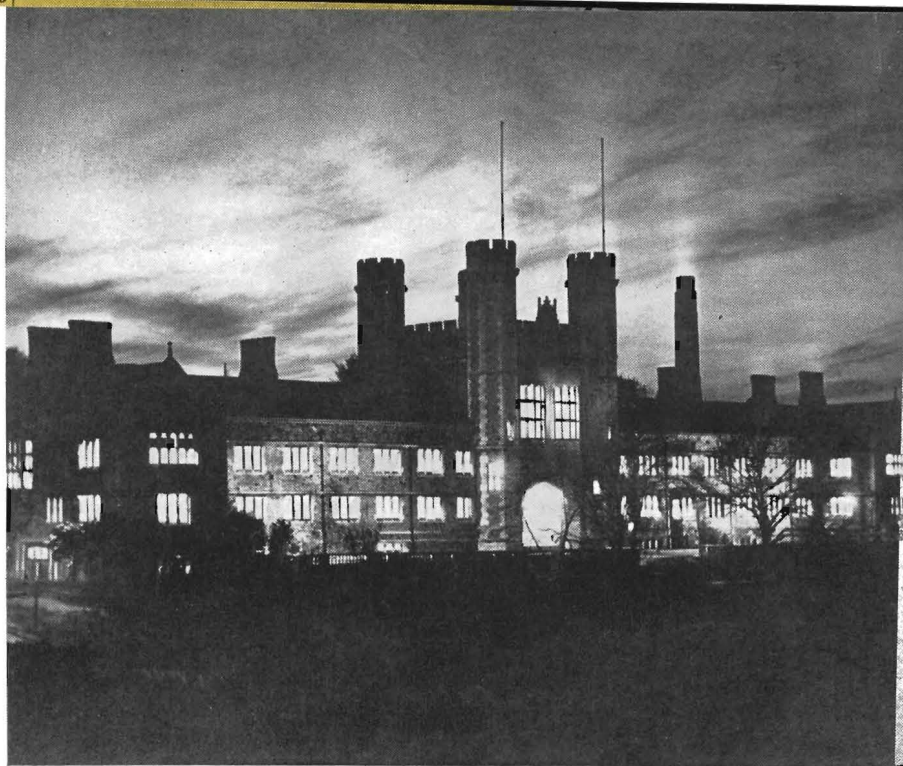
The leading role the University has taken in advancing the health sciences requires first-rate laboratories, hospitals, equipment and facilities. Of far greater importance in the Medical School's leadership has been the caliber of men and women who have given themselves to the effort. A towering figure in the School of Medicine's development was that of Dr. Graham, who died of lung cancer March 4.

Dr. Graham, who retired in 1951 as head of the department of surgery, was perhaps the most eminent surgeon of the first half of the twentieth century. He also was a great research scientist. With Dr. Warren H. Cole, he devised in the 1920s a method for applying X-ray photography to the diagnosis of gall bladder diseases. This technique, called cholecystography, was worked out by experiments in which dogs were fed various substances in an effort to find a material opaque to X-ray that would go to the gall bladder.

In 1933 Dr. Graham performed at Barnes Hospital the first successful removal of an entire human lung. Later the operation became routine, and it has saved the lives of thousands of persons who otherwise would have died of lung cancer. Dr. Graham's decision to take out the entire lung was made in the operating room, after the patient's chest had been opened, and the technique he used was one he had employed in research on animals.

Dr. Graham devoted himself to research after his retirement. He and Dr. Ernest L. Wynder, BSMS, MD 50, completed a statistical study in 1950 showing a relationship between cigarette smoking and lung cancer. In November 1952, Dr. Graham reported to the National Academy of Sciences here on Washington University experiments indicating that tar in cigarette smoke could produce cancer. The gist of the report, in which Dr.

(Continued on page 25)



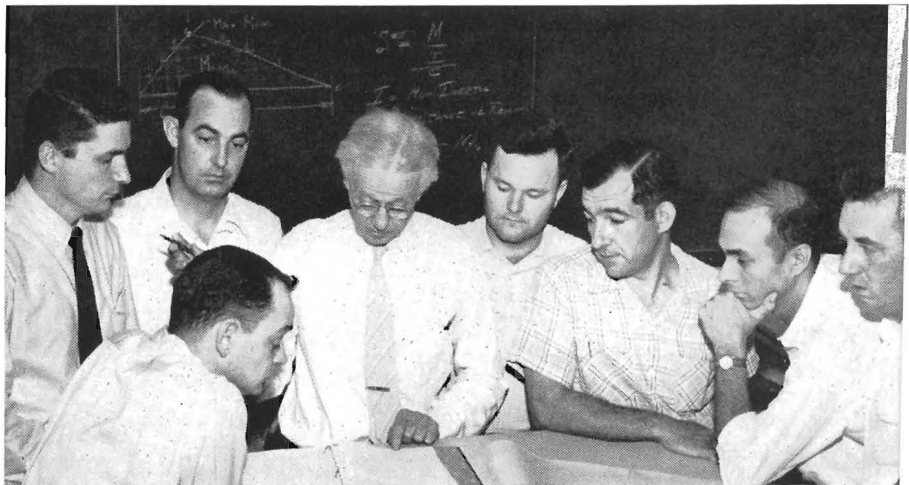
During 1956-57 University College night courses attracted 9,838 students to the campus.



Earnest S. Brandenburg, dean of University College.



Dr. Huston Smith, professor of philosophy, answers a question during the classroom examination for the University's religions of man course given over television station KETC.



Professor Emeritus Franz A. Berger, fourth from the left, now celebrating his 50th year at Washington University, instructs a University College class in mechanical engineering.



By JAMES K. LAHR  
IN COLLABORATION WITH  
DOROTHY A. BROCKHOFF

# UNIVERSITY COLLEGE NIGHT STUDIES

## Most-Used Bridge Between Town and Gown

Scattered across the country, phantom-like, are a half dozen university colleges, most of them with no buildings, faculty or athletic teams that they can call their own. These are no imaginary schools, however, but full-fledged, degree-granting adult education institutions which "borrow" the classrooms, teachers and resources of the great universities of which they are a part.

The success of these university colleges and some 90 other sister schools, dedicated to the principle that people are never too old to learn, has caused a major revolution in educational circles. The old theory was promulgated by the Harvard psychologist and philosopher William James (1842-1910) that "outside of their own business, the ideas gained by men and women before they are 25 are practically the only ideas they will have in their lives." But this notion has been effectively disproved scientifically and pragmatically.

Edward Lee Thorndike, who became William James Lecturer at Harvard before his death in 1949, showed that, although the best time for learning is from 22 to 24, there is very little lessening of ability after that time. He also proved that most persons of 70 can learn just as well as they could as adolescents. The experience of institutions of higher learning devoted to adult education, including Washington University's own University College, which is one of the oldest and largest of such schools, vigorously substantiates Thorndike's conclusions.

Like the majority of the schools concerned with teaching adults, WU's University College really goes into high gear, academically speaking, after the sun has set. It is then that the majority of the students (9,838 last year) converge on campus to pick and choose from among the 350 to 400 courses which the institution regularly lists in its 150-page catalogue. Interestingly enough, the students are just as varied as the courses, which range all the way from fibers and fabrics to the elements of servo-mechanisms. Indeed, there is scarcely an occupation

which is not represented among the student body, which includes everybody from the rock 'n' roll set to septuagenarians still spry enough to take the Brookings stairs two at a time.

Surveys of this heterogeneous group, three fourths of whom are men, show that 20 per cent of those who spend their evenings or late afternoons on the Hill are office workers; 50 per cent are under 30; nine per cent are over 45. The expectations are that the last percentage figure, a surprising indication of the inroads of today's aging population on education, will rise as more older persons take advantage of University College's recently adopted plan, which provides that students over 65 pay only one-half the regular tuition charges.

\* \* \* \*

According to Dr. Earnest S. Brandenburg, young and enthusiastic dean of University College, there are three basic reasons why all these people bother to climb the Hill every week. "Many adults," he explained, "come in order to get ahead in the world. These are the students who enroll in the strictly vocational courses that will help them improve skills for their jobs. Others come to fill gaps in their knowledge. And some are like people in a cafeteria—sampling here and there for something stimulating and interesting. We have a real job to do in offering courses aimed at the re-education of adults for the changing aspects of their jobs today."

Probably the best authority on the first type of student is Professor Emeritus of Mechanical Engineering Franz A. Berger, now celebrating his 50th year at Washington University. Affectionately known as "Pop," with his thatch of silver hair and rimless glasses, Berger looks

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JAMES K. LAHR has been administrative assistant to the dean of University College for the past year. DOROTHY A. BROCKHOFF, formerly a writer for Monsanto Chemical Co. and an alumna of Washington University, has written several special articles for the WU Magazine in the past year.

and acts like a Germanic Mr. Chips. Having come to WU in 1907, Professor Berger remembers when the first coordinated evening courses on the Hill were organized during World War I. Strictly speaking, the activities of what is now University College go back even before that to 1908, when the first Saturday courses were offered. But 1915 is generally regarded as the turning point in the institution's history, because it was in that year that the entire program of adult education was centralized in what was then known as the Division of University Extension.

Credit for the introduction of these pioneer night classes belongs to Alexander S. Langsdorf, dean emeritus of the Schools of Engineering and Architecture, who in 1914-15 persuaded Dr. Frederic Aldin Hall, then acting chancellor, to authorize two evening engineering courses and volunteered to teach one himself.

Actually, there was strong precedent for such an undertaking, because the first classes offered by Washington University in 1854, a year after it received its charter, were night courses held by the University-operated O'Fallon Evening School. Over the years, the design, art and architecture faculties each experimented with evening instruction too, but no effort was made to coordinate these activities into one central program. Contrasting these attempts with the enterprise launched in 1915, Langsdorf, in his history of the University, has explained that the latter project was "of a new order of magnitude, general rather than specific in its over-all concept."

Reminiscing recently about these events, Berger recalled that he was "one of the first to be enrolled in the corps of instruction of the new division." He has been on the University College faculty ever since. For his 49 years of service to the day and evening divisions Berger received a plaque last fall at special ceremonies—one of many honors which have come his way through the years. He is proud of these awards, but prouder still of his students, many of whom have done well indeed since completing his mechanical technology courses.

\* \* \* \*

There is LeRoy Martin, for instance, an hourly worker at the Granite City Army Engineer Depot when he enrolled in University College ten years ago at the age of 52. While studying on the Hill, Martin received \$2,050 for inventing a special night telescopic sight that saved the Government \$3,500,000 the first year it was put into operation. Upon completion of his work in University College in 1952, Martin won a rating as a professional Civil Service employee and since then has traveled to The Netherlands and Thailand to give instruction on the operation and maintenance of U. S. Army equipment.

In a recent letter to University College officials, Martin wrote: "All this could never have happened without the training and technical knowledge acquired at University College. And believe me, I feel very grateful to University College and all concerned."



Oldest and youngest members of the 1956-57 University College graduating class, Margaret Baker, 65, who studied 14 years to earn a degree, and Adrian Levin, 21.

Another appreciative University College student is Tom Houlihan Jr., a clerical worker, 35, who last June won \$300 as second prize in a television playwriting contest sponsored by the St. Louis chapter of the National Society of Arts and Letters for a script he wrote while enrolled in J. Joseph Leonard's television writing course. Houlihan, whom Leonard characterizes as "one of the most prolific students I have ever had," turned out two 90-minute scripts and four 60-minute plays, in addition to his prize-winning "Paddy," while studying in University College.

Martin and Houlihan, although widely separated in age and interest, have one thing in common: they were and still are interested in making practical application of what they have learned in University College. There are, however, hundreds of other registrants who study, as one of them put it a few weeks ago, "Just for the heck of it!" George Witsma, a retired investment broker, 63, is one of these.

For eight successive years now, he has been taking University College courses in philosophy, ethics, comparative religion and languages, because, as he says, "I like it!" Currently he is able to read about a half dozen languages, an accomplishment he is inclined to disparage, insisting he is no scholar. "I'm just a country boy searching for the answers," is the way he puts it, and the answers he is looking for have to do with "ultimate questions involving man's origin and destiny."

Occasionally, faculty members have tried to persuade Witsma to study for a degree, pointing out that University College offers two: A Bachelor of Science and a Bachelor of Science in Education. But Witsma is not interested. He believes, "The important thing is not whether one takes a degree or not, or takes a course for credit. The important thing is that courses make people understand one another better."

Others feel differently. In fact, 2,291 adults have earned bachelors' degrees from University College since

1931, when this division of the University adopted its present name and was empowered to grant degrees. It was in that same year that University College became affiliated with Central Institute for the Deaf, enabling students interested in teaching the deaf and the speech-handicapped to qualify for the BS degree in education.

Not all those who take courses for credit at University College, however, aspire to a degree. Hundreds prefer to work for one of the 22 different kinds of certificates which the institution awards.

Dean Brandenburg explained in his busy Brookings Hall office a few weeks ago: "It takes about one-fourth to one-half the time required for a degree to earn a certificate. The latter is for the most part vocationally oriented. Certificates are offered in such fields as accounting, chemical technology, industrial management, real estate and a number of other specialized fields."

\* \* \* \*

In addition to this regular curriculum University College, co-operating with the appropriate academic divisions, each year sponsors institutes and conferences designed specifically to meet the needs of various professional, industrial and business groups in the community. These are now primarily under the direction of James K. Lahr. These conferences cover nearly as many subjects as the evening courses themselves, ranging all the way from police administration to statistical quality control. "Last year about 3,200 different people visited the campus for 18 of these short courses," Brandenburg said, quoting statistics with computer-like precision.

"What we do," he added, "is to act as the administrative agency for these conferences. We are eagerly looking forward to enlarging our conference program. Our primary problem now is lack of space. In order to meet the opportunities and needs of the Greater St. Louis community, we desperately need a Conference Community Center here on campus."

Currently, University College is expanding its administrative functions in another direction, handling through the office of one of its two assistant deans, Dr. Eugene I. Johnson, the mountains of detail involved in setting up a Civic Education Center. Still largely in the embryo state, the center plans to step up its activities this fall with a special series of TV programs devoted to urban renewal. Aim of this undertaking, which will be built around small informal listening sessions where groups from eight to twenty may get together to discuss the telecasts, will be to close the gap between the thinking of the people in the city and the thinking of the agencies which serve these people. "Through this enterprise it is hoped," Johnson declared, "that the people will get a sense of identification with the decisions that are made by city government officials."

University College's other assistant dean is Kingsley M. Wientge, a tanned, trim man in his forties. Part of Wientge's responsibility is, in his own words, "to serve

as a kind of public relations man for University College," for he devotes a good deal of his time to strengthening the ties between the institution and business and community organizations which it serves. He thinks of industry as University College's "customer." In line with this conviction Wientge, Myron Spohrer, one of his counselors, and Lahr regularly visit industrial and business concerns to explain the University College program to company officials. Last year approximately 200 different firms had five or more employees registered in University College courses. At least 80 of these firms paid all or part of the tuition of their employees.

To Wientge also falls the responsibility of directing the Adult Counseling Service, which now includes three professional counselors—Wientge, Spohrer and Dr. Pairlee J. Stinson. This service administers to the needs of those enrolled in University College as well as to business firms and to interested individuals in the community. The primary purpose of the Counseling Service is to help individuals gain a better understanding of their interests, abilities, aptitudes and personality traits as they relate to educational or vocational objectives.

As a result of all of these activities plus the WU Association Lecture series and Film Art Society programs which it sponsors, University College is unquestionably the most-used bridge over the gulf which once separated Town and Gown. Credit for building this bond between the two belongs, as Brandenburg repeatedly stresses, to his three distinguished predecessors, Frederick William Shipley, Frank M. Debatin and Willis H. Reals. They laid the foundation; Brandenburg is now engaged in making it even stronger through the introduction of new courses, new programs and much more extensive offerings of conferences and institutes.

Last year, as a part of its ever-expanding program, University College introduced extension courses at Normandy and Affton senior high schools. Currently, Brandenburg is thinking about what he calls "other frontiers." He would like, for example, to set up special courses in the afternoons for housewives on such subjects as child psychology, interior decorating and music appreciation. "Maybe we should do a series on great books which have been made into movies," he speculated. "We do have to be careful though," he added, "that we don't swing the pendulum too far. Whatever we offer should be related to higher education. Washington University should provide those courses for adults which as a great university it is equipped to offer. This policy, for example, excludes contract bridge and square dancing, however desirable some may consider them as adult activities."

That University College is able to cut across departmental boundaries once as difficult to penetrate as European borders and draw upon the resources of the entire University to achieve this aim, accounts in large measure for the school's success, the students' satisfaction and the remarkable zest of University College staff. ●

## DEVELOPMENT PROGRAM GAINS SINCE 1954

Aside from the intangibles, and in addition to the gifts and grants covered in the report that begins on the facing page, the following are some of the more important gains that have been made during the first three years of the development program:

### For Better Communications and Public Relations

- establishment of the Industrial Liaison Office for the mutual benefit of both the business and industrial community and the University; this office, a trail-blazing venture in higher education, helps keep business concerns informed of new approaches in their areas, and it enriches the University's educational activities through closer contact with the off-campus world
- creation of the Speakers Bureau and the development of an educational and professional approach to the handling of all special events on the campus
- production and wide distribution of the University motion picture, entitled "The Second Century"; this film has now been seen by more than 1,000,000 persons throughout the country
- conversion of the former *Alumni Bulletin* into the present *Washington University Magazine*, with expanded circulation
- initiation of *The Chancellor's Message* and *Parents Letter*, published four and three times a year, respectively
- organization of the Parents Association and inauguration of the annual Family Day program
- inauguration of the annual Honors Day program for high school honor students
- production of numerous television programs, not only as an educational service to the St. Louis community, but to demonstrate the quality and growing stature of the Washington University faculty
- strengthening considerably the student-faculty assembly program, with well-attended bi-weekly or weekly meetings open to the public; the spiritual and intellectual life of town and gown has been stimulated by these inspiring addresses of noted jurists, clergymen and other leaders from many parts of the country
- development of a committee structure that cuts across all segments of the University—from the Board Committee on University Development to the Development Program Committee of the Student Senate; truly, "development" is a University-wide activity, and co-ordinating machinery has been set up to effect full participation

- publication of *Development Program Bulletins* and *Foundations News* for all members of the faculty and issuance of monthly reports of campaign progress
- wider distribution of the weekly *Calendar of Events* to business firms and interested individuals in the St. Louis area
- improvement of news coverage in the local and the national press

### To Obtain More Financial Support

- establishment of the Alumni Fund Office and intensification of fund-raising programs among alumni (see Page 13 for report of progress)
- putting the Sustaining Associates Program on an *organized* basis, with a corps of annual volunteer solicitors calling on corporations, business firms and individuals
- organization and establishment of the Gift Records Office
- establishment of the Office for Foundation Relations
- creation of an organized bequest program and a general intensification of effort to obtain large special gifts

### To Improve Alumni Services

- creation of the Alumni Federation and new associations for several of the individual schools
- inauguration of the annual Founders Day program, with University citations for distinguished alumni and alumni citations for distinguished professors
- revitalization of activity in alumni clubs throughout the country

### For Better Planning and Internal Co-ordination

- creation of a faculty committee and a permanent office for systematic, intelligent, long-range campus planning; this office, entrusted with the future efficiency and beauty of groups of historic buildings created half a century ago after a national competition, is headed by a noted architect who is also a recognized authority in the field of planning.

## SECOND-CENTURY GROWTH

# PROGRESS AND PROSPECTS

BY E. H. HOPKINS

Vice Chancellor for  
University Development

The Washington University Development Program, initiated three years ago, set out to accomplish many objectives. In a general way, these aims were described in the December 1956 issue of this magazine in the article "The Dimensions of *Development*." They will not be repeated here.

After three years, it is time to take stock. We have endeavored to evaluate our successes and failures, particularly as they relate to the specific objectives of the overall program as agreed upon three years ago. Briefly, *we are pleased with the results, but a large part of the task remains to be done.*

To speak of Washington University's growth in terms of financial support alone would create a false and fragmentary picture. Attempting to evaluate university development from a mere dollars-and-cents viewpoint would be as meaningless as attempting to describe the happiness of a marriage simply by reference to a bank balance.

### Dollars and Development

Like love and marriage, university development is a "many-splendored thing." In the first few years of a second century's growth, the revitalized spirit of Washington University is a compound of an endless list of both tangibles and intangibles, each of them priceless in itself but even more so when each becomes a part of the whole.

Included, for example, are the following intangibles:

- 1) Enhanced quality of co-ordination and communication with every one of the University's "publics," among which the alumni and the business community are of great and increasing significance. Here a sense of mutuality now exists that spells inevitable progress for both.
- 2) The heritage of the University's past, now coupled with the present day's stimulated sense of mission.
- 3) A student body in which scholarship has become at least as fashionable as activities, and a faculty whose mounting stature is the prime cause behind the University's burgeoning all-round excellence.

### Team Spirit and Tangible Assets

These are only a few examples of broad and overlapping considerations, all inseparable from such tangible things as libraries and laboratories, classrooms and dormitories, research grants and increased faculty salaries.

The enumeration of our growing intangible assets could be extended with ease beyond the possibility of documentation or description in a single article or even a series of articles.

For space reasons, this article must be limited, at least in its emphasis, to reporting the progress and prospects of the University's fund-raising efforts. Lest these results be interpreted as the sum and substance of the development program, however, mention should be made of a few of the specific accomplishments that would necessarily be omitted in a report covering solely the analysis of gifts and grants to the University over the three-year period.

First and foremost, although not a product of the development program itself, there has been developed on campus a spirit of teamwork among all segments of the campus family. The result is an atmosphere most conducive to significant progress.

Secondly, and again not a result of the development program but a prerequisite for it, is the new sense of direction that came from the prolonged efforts of the Committee on University Goals and Objectives. Without the explicit purpose which has been thus enunciated by the faculties and which now permeates our entire operation, the development program would be a ship without a rudder. (See facing page for longer list of specific development gains.)

### First Phase Over the Top

The first three years of the ten-year development program were set aside for intensive solicitation of capital gifts; however, at no time has there been any cancellation of effort to secure the annual gift for unrestricted purposes. In fact, from the accompanying enumeration of gains, it is clear that *all* efforts to raise new monies for the University have been stepped up.

Such gains as these have been made possible by a carefully planned administrative framework. This structure is so designed as to insure that the whole of the development program transcends the mere sum of its parts, because each aspect of the program supplements and bolsters all others.

Three years ago, the University established and announced two fund-raising goals: First, a ten-year goal of \$50,950,000 of capital funds needed. Of this total, \$27,-

500,000 was for endowment, and \$23,450,000 was for new buildings, remodeling of existing structures and other physical development of the campus. Second, a few months later the \$20,000,000 goal for three years was announced. At this time, however, it was felt that the unrestricted gifts which were being sought for annual budget support, as well as the *restricted* gifts for current purposes, should not be left out of the picture. Examples of such gifts are annual scholarships provided by business firms and financial grants serving precisely the same purposes as individual gifts. Therefore, in establishing the \$20,000,000 three-year goal, *all* University gifts and pledges related to the specific goals of the Second Century Development Program were taken into account. On this basis, at the end of the three-year period, the goal of \$20,000,000 was exceeded by more than \$3.5 million dollars. (See Chart I.) This does not include \$2,158,284 received

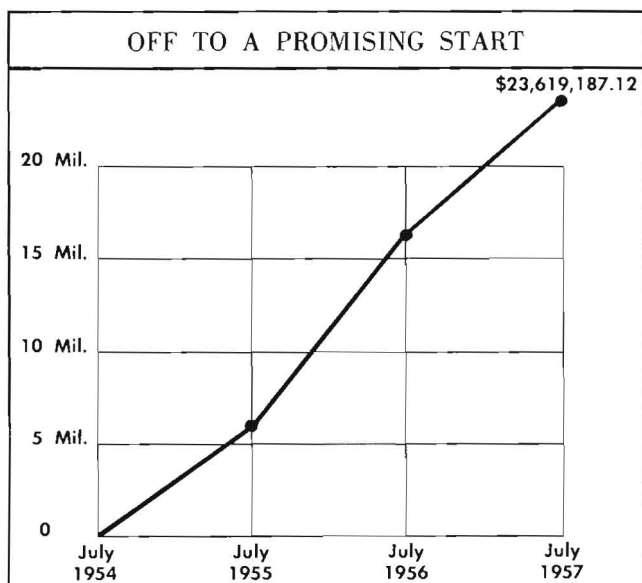


Chart I. Progress chart shows all gifts and pledges received during three-year period. The announced goal was \$20,000,000.

in research grants during the same period, nor does it include \$4,123,671 received in government grants, most of which served also to improve the educational program of the University.

The purposes of all gifts and pledges received during the three-year period are as follows:

1. For improvement of physical plant \$ 5,944,779.13
  2. (a) For restricted endowment..... 9,494,888.72
  - (b) For unrestricted endowment 2,063,879.88
  3. For unrestricted current purposes 2,359,967.41
  4. For restricted current purposes . 3,680,387.88
  5. Pending classification..... 75,284.10
- Total. . . . . \$23,619,187.12

It is clear from these figures that only items 1, 2(a) and 2(b) represent progress toward the announced ten-year goal of \$50,950,000 for new endowment and plant purposes.

To appreciate the size of the job that lies ahead, let us look to the progress, or the lack of it, made toward meet-

ing the specific capital-fund needs which constitute the ten-year goal. (See Chart II.)

PROGRESS IN PERCENTAGES		
Announced 10-year Needs	Amount Needed	Percentage Obtained in Three Years
Faculty Salaries Endowment	\$3,000,000	47%
Endowed Professorships	3,000,000	30%
Student Aid Endowment	3,000,000	19%
Unrestricted Endowment	2,000,000	97%
Library Building	3,500,000	41%
Library Endowment	1,500,000	
Community Center-Student Union	5,000,000	
Dormitories	5,225,000	17%
Plant Facilities for Individual Schools	9,725,000	46%
Endowment for Individual Schools	15,000,000	39%
<b>Total</b>	<b>50,950,000</b>	<b>34%</b>

Chart II. Gifts and pledges received by the University in relation to the announced ten-year goal of the development program.

It would be incorrect to infer from the foregoing that the money-raising efforts of the University were concentrated on obtaining capital funds only. In this connection it may be helpful to summarize *all* gifts and grants received during the last seven years. (See Chart III.) This chart differs from others in that it reports only cash received, not pledges, many of which are still to be received.

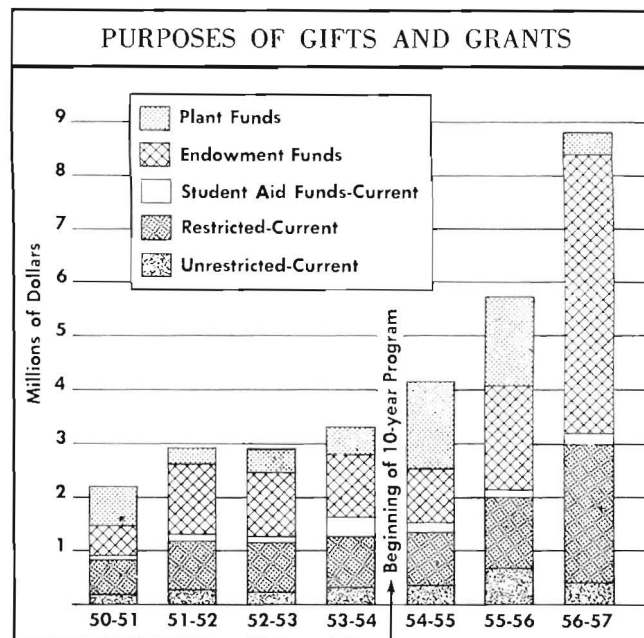


Chart III. Seven-year record of gifts and grants received by the University (in cash, not pledges), classified by purpose.

The important point to realize here is the fact that the future welfare of Washington University depends on success in *all* of these areas, and not in any one alone. This is true even though support in one area often helps meet needs in another.

**Scholars and Dollars**

For example, additional annual support for scholarships reduces the scholarship endowment required. Generally speaking, however, increased support in *all* areas is needed if the University is to move forward in the manner desired by all.

It is of special interest to note the mounting annual unrestricted support needed—and received—over the last seven years. In 1953-54, for instance, this amount was a record high of \$265,400. In 1956-57, the total received in this classification was \$538,644.

As a result of our general progress, the University has been able to increase appreciably the average faculty member's salary in the last seven years. Much more remains to be done, however.

An over-all view of the endowment situation is given in Chart IV.

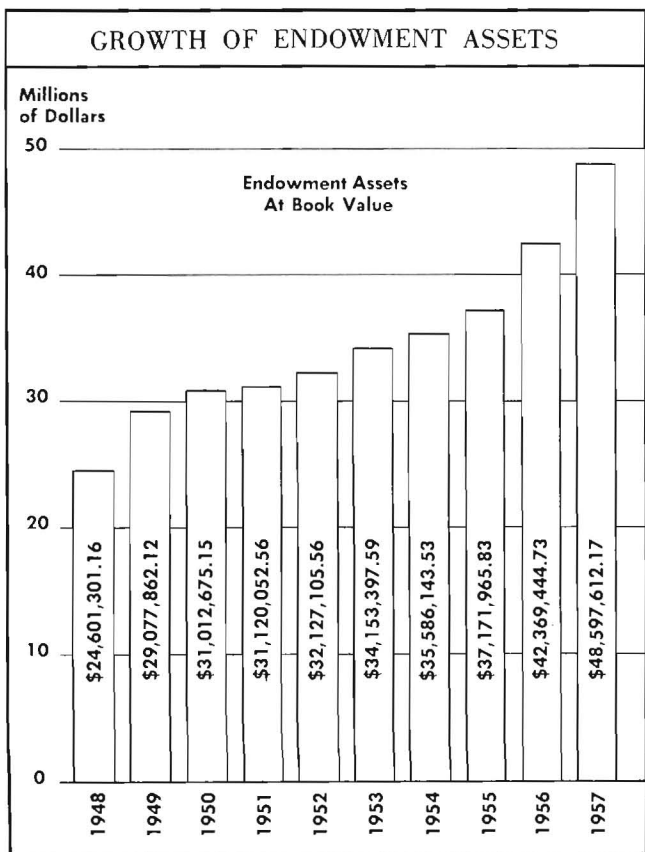


Chart IV. Endowment assets of the University at book value.

This increase reflects not only new funds for endowment purposes but also value added as a result of new investments. The figures shown, however, are book values, not market values. Present market value of Washington University's total endowment funds is getting very close to \$75,000,000.

One example of increased annual support which is most helpful to the University is the rise in alumni giving. Chart V shows what happens when the alumni decide to do something about supporting the annual budget.

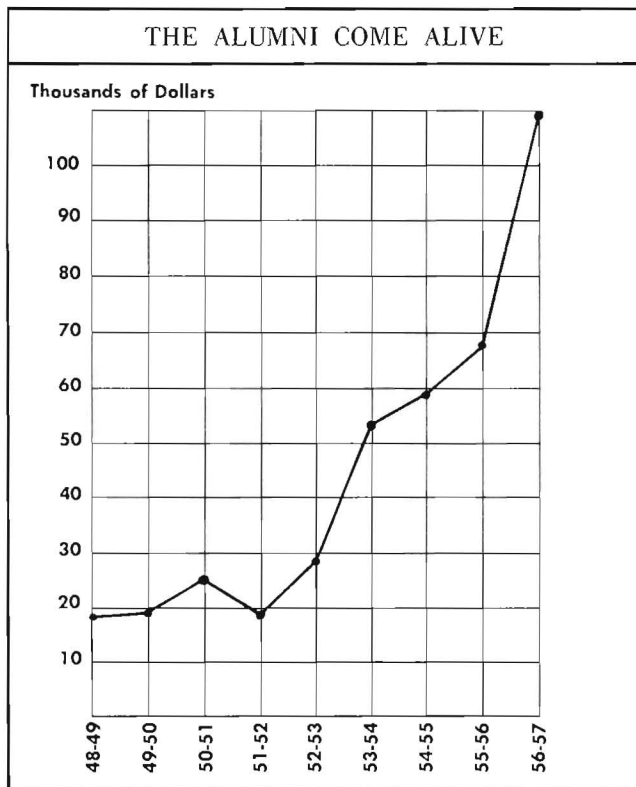


Chart V. University alumni fund gift totals from 1948 to 1957.

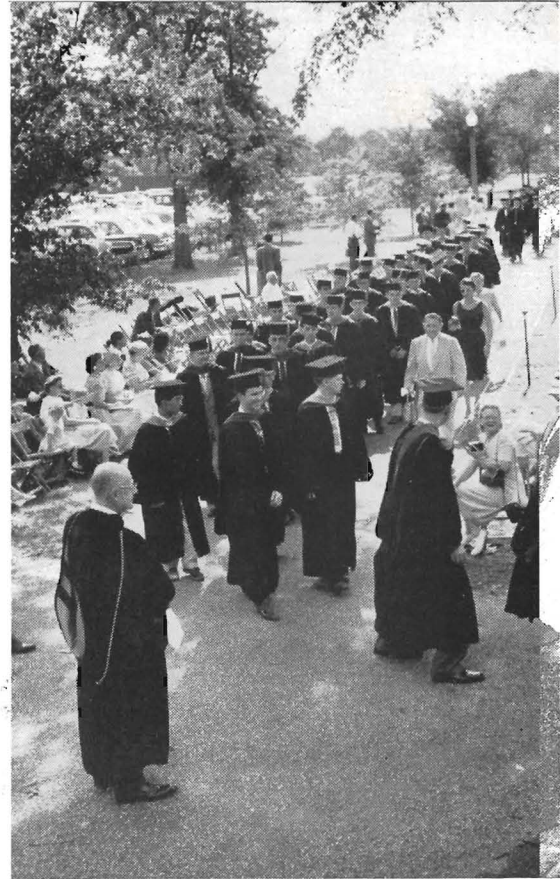
Currently, the unrestricted Alumni Fund is used to support faculty salaries, without question the most urgent financial need the University has.

**'The Lord Helps Those . . .'**

The unrestricted alumni gift has a double value to the University. First, the financial support it provides is of course most important, and in a growing number of instances such a gift is matched by the alumnus's employer, an arrangement that doubles the value of the gift. Secondly, business firms and corporations planning their own philanthropies often inquire concerning alumni support. In other words, sound business leaders believe in helping those who help themselves.

From the foregoing statistics and charts, one can readily see why the University is grateful for the generous support it has received over the last few years. Tribute is due not only to the donors but to those volunteer workers who have given so much of their time and energy to this ennobling cause.

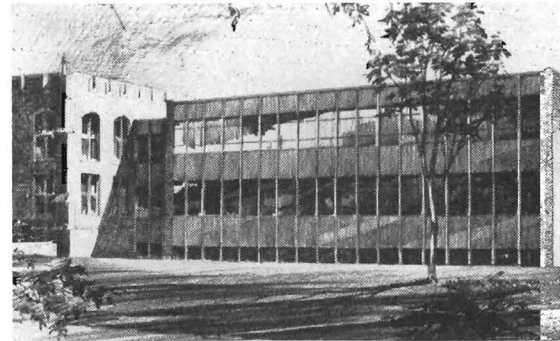
We are not looking back. The biggest job still lies ahead. It will take several years to tell how far Washington University will go toward achieving its stated goals. Our eyes are on the stars. Results of the first three years of the development program give us no reason to lower our sights.



Chancellor Shepley greets WU graduates approaching the Field House for June 12 commencement exercises.



St. Louis Mayor Raymond R. Tucker, third from left, was speaker at WU's commencement June 12. To his left in front row are honorary degree recipients: Henry V. Putzel Sr., Severo Ochoa, R. Buckminster Fuller, Senator Paul Douglas and Dr. Frederick A. Coller. Daniel K. Catlin, vice chairman of the WU Board of Directors is at right.



Architect's perspective drawing shows the new Adolphus Busch III Laboratory of Biology, now under construction. The building will house laboratories for a new program in cellular and molecular biology.



Members of the Board of Directors of the WU Corporation photographed in session in the office of Chancellor Shepley.



Construction on WU's new engineering laboratory was begun in July, will be completed in 1958.



# CAMPUS NEWS

**GROUNDBREAKING FOR NEW ENGINEERING LABORATORY . . .** Ground was broken July 3 for Washington University's new engineering laboratory building east of Cupples II engineering laboratories and north of the Sever Institute of Technology. Plans call for completion of the building late in the summer of 1958 for occupancy that fall by the departments of electrical, mechanical, industrial, chemical and civil engineering.

A cornerstone-laying ceremony for the new building will be held October 25 at 4:30 p.m., under sponsorship of the School of Engineering Alumni Association, and will honor Alexander S. Langsdorf, dean emeritus of the Schools of Engineering and Architecture, who recently observed his 80th birthday. The ceremony will be followed by a reception at the residence of Chancellor and Mrs. Shepley. In charge of arrangements are William Hedley, BSCE 25, CE 53, president of the Engineering Alumni Association, and Frederick C. Woermann, MTS 95, BSCE 99.

**ADDITION TO BLEWETT HALL . . .** An addition to Blewett Hall, home of WU's department of music, was completed in September, allowing room for expansion of the department's fast-growing library and providing private teaching studios for staff members. Located southwest of Blewett Hall, the building was erected with an anonymous gift of \$50,000. The addition is built of concrete block, stuccoed on the outside to match Blewett Hall, with two walls of glass. It contains three classrooms, four piano studios, four listening rooms and a lobby.

**POLIO GRANT . . .** In June the National Foundation for Infantile Paralysis made a grant of \$39,716 to Washington University for studies of tobacco mosaic virus by Dr. Barry Commoner, professor of plant physiology, and his associates.

Dr. Commoner's group was one of two in the country which a year ago discovered that the virus which causes tobacco mosaic disease can be split into two parts and later reconstituted to form an active virus. The research is expected to throw light on the nature of viruses and the machinery by which they reproduce.

**NEW PHYSICS-MATH COURSE . . .** A new approach to science instruction for high school freshmen was inaugurated September 5 at Bayless High School in St. Louis County when Alexander Calandra, associate professor of physics, taught the first class in a new integrated physics and mathematics course. The course has been established as a pilot project in the rehabilitation of science education at the secondary level to increase study of mathematics and physics, both of which have declined in recent years.

**CAMPUS PARKING . . .** To alleviate the parking problem, Washington University has issued parking per-

mits for all students, faculty and staff who drive their cars to the campus. The permits, costing \$4 for both semesters, or \$3 for a single semester, were issued at registration last month.

**NEW BOOKS BY WU FACULTY . . .** Charles L. Lapp, professor of marketing in the School of Business and Public Administration, has written a new book, *How to Climb the Ladder to Sales Success*, published August 26 by McGraw-Hill. The book is a manual of sales techniques for everyday use.

A new book, *Work Simplification*, by Gerald Nadler, professor of industrial engineering, was published in August by McGraw-Hill Book Company. A "how to do it" publication for the layman, the book is based on Nadler's experiences in organizing material for a course in work simplification televised last year over KETC, St. Louis educational television station.

**STUDY OF UNEMPLOYMENT BENEFITS . . .** The School of Business and Public Administration has been granted a \$45,000 contract to study the adequacy of unemployment benefits by the Missouri Division of Employment Security. John W. Bowyer, associate professor of finance and assistant dean of the business school, will direct the study.

**ELECTED TO OFFICE . . .** Nicholas J. Demerath, professor of sociology and chairman of the department of sociology and anthropology, has been elected president of the Society for Applied Anthropology . . . Wayne L. Townsend, professor of law, has been elected president of the St. Louis Artists' Guild for 1957-58.

**FACULTY APPOINTMENTS . . .** Isadore Silver, professor of Romance languages at the University of Connecticut, has been named to a similar post at Washington University. An authority on the French Renaissance, particularly the poet Ronsard, Silver is the author of ten books. He has been at Connecticut since 1949.

Recently appointed associate professors include: Powell Niland, assistant professor at the Harvard Graduate School of Business Administration, who has been named associate professor in the University's School of Business and Public Administration, and Ernest N. Wright, an associate professor at Rensselaer Polytechnic Institute, who has been appointed associate professor in the School of Architecture. Donn H. Steward, assistant professor at Florida State University, has been named visiting critic in the School of Fine Arts. He will teach printmaking.

**FIRST NATIONAL BANK HONORED . . .** First National Bank of St. Louis, which last October gave St. Louis and Washington Universities each unrestricted gifts of \$50,000, was among ten companies and foundations honored in August for such aid to non-tax supported schools.

**COMMENCEMENT  
JUNE, 1957**



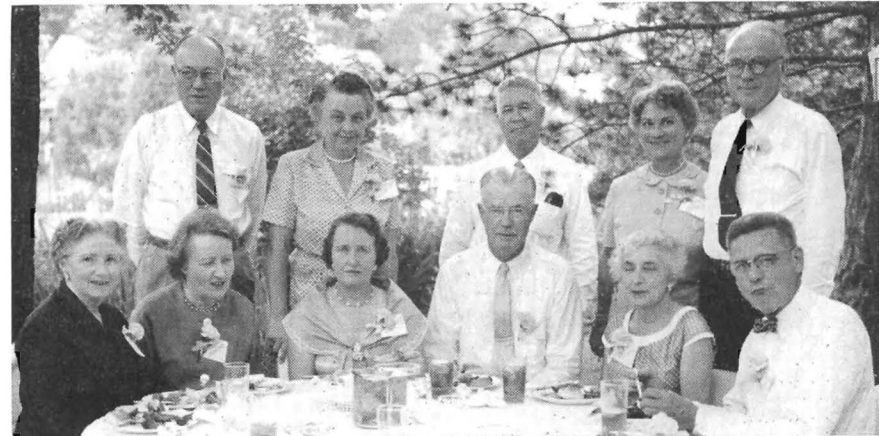
A reunion cocktail party for members of the Class of 22 was held at Garavelli's Restaurant on June 11.



A tea for women of the Class of 12 was held at the home of Mrs. Carl Vohs, seated left, on June 9.



Members of the Class of 07 at the Chancellor's luncheon were, seated from left, Cornelia Coulter, Dan Ruebel, Mrs. Phillips Moss, William Liggett. Standing from left: Walter Bryan, Elinor Zimmerman and Erle J. Birkner.



Class of 17 met for a buffet supper June 9 at the home of Mr. and Mrs. Edwin Thomas.



Guests of Chancellor and Mrs. Ethan A. H. Shepley at a luncheon June 11 were these graduates of 50 years or more: seated from left, Dr. O. J. Fruth, DDS 97, Dr. Walter Kirchner, AB 97, MD 01, Dr. Frederick Woodruff, MD 97, AB 23, Dr. Frederick Barry, MD 02, George Daugherty, LLB 02, Dr. F. E. Linder, DDS 02, Dr. James Pfeiffenberger, MD 02, Herbert Arnstein, LLB 07, Dr. Leo Bartels, MD 07, Dr. Erle Birkner, MD 07. Standing: Chancellor Shepley, Walter Bryan, EE 07, Judge John Calhoun, LLB 07, Cornelia Coulter, AB 07, Jacob Lashly, LLB 07, William Liggett, EE 07, Mrs. Phillips Moss, AB 07, Dr. Percy Newman, MD 07, Dan A. Ruebel, AB 07, Dr. Llewellyn Sale, MD 07, Alva C. Trueblood, LLB 07, Dr. E. C. Will, DDS 07, Elinor Zimmerman, AB 07, and Dr. Paul Vinyard, MD 07.

**REUNIONS**  
**JUNE, 1957**



Chancellor Shepley with movie and television performers Mary Wickes, AB 30, and Marvin Miller, AB 34, at Alumni-Senior Dinner.



Approximately 950 alumni attended the Alumni-Senior Dinner held at the Student Center Patio.



A reunion cocktail party for members of the Class of 27 was held at the Prime Rib June 11.



Members of the Law School Class of 32 met for cocktails at the Park Plaza Hotel June 11.

**REUNIONS  
JUNE, 1957**



The Class of 32 held a reunion cocktail party on June 11 at Ray Quinlan's Party House.



Members of the Class of 37 met for cocktails at the Raleigh House on June 11.



Cocktail party for the Arts and Sciences Class of 42 was held June 11 at Town Hall.

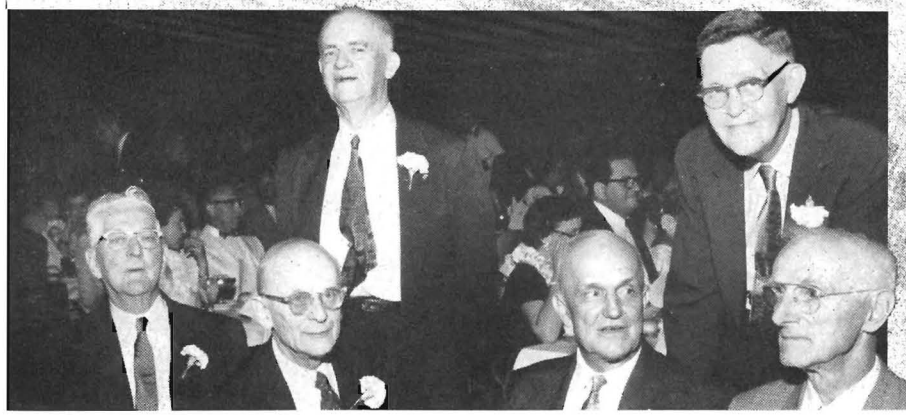


At Giovanni's for their reunion party on June 11 were members of the Class of 47.

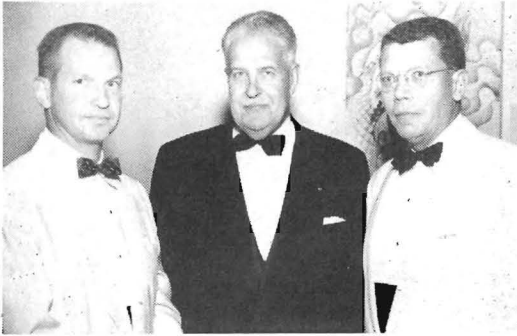


Alumni of the Class of 52 held their reunion party at the Congress Hotel June 11.

## MEDICAL REUNIONS



Members of the golden anniversary Class of 07 at the Medical Alumni Banquet June 7 at the Chase Hotel: seated from left, Drs. A. M. O'Reilly, Llewelyn Sale, G. D. Royston, M. G. Fronske; standing, Drs. Paul Vinyard, Percy Newman.



Lt. Gen. Leslie R. Groves, USA (Ret.), vice president of Remington Rand, Inc., center, speaker at the Medical Banquet, with Dr. Ernest Rouse, MD 43, left, and Dr. Robert Elliott, AB 32, MD 36.



Class of 42 met for cocktails and dinner June 6 at the Park Plaza Hotel.



Class of 52 held reunion at Prime Rib June 6.



Dinner and cocktail party for Class of 32 was June 6 at University Club.



The Medical Class of 47 met at Le Chateau June 6.



Class of 37 held dinner and cocktail party June 6 at the Park Plaza Hotel.

# W U

## PORTRAIT

### SENIOR CITIZEN OF THE CAMPUS

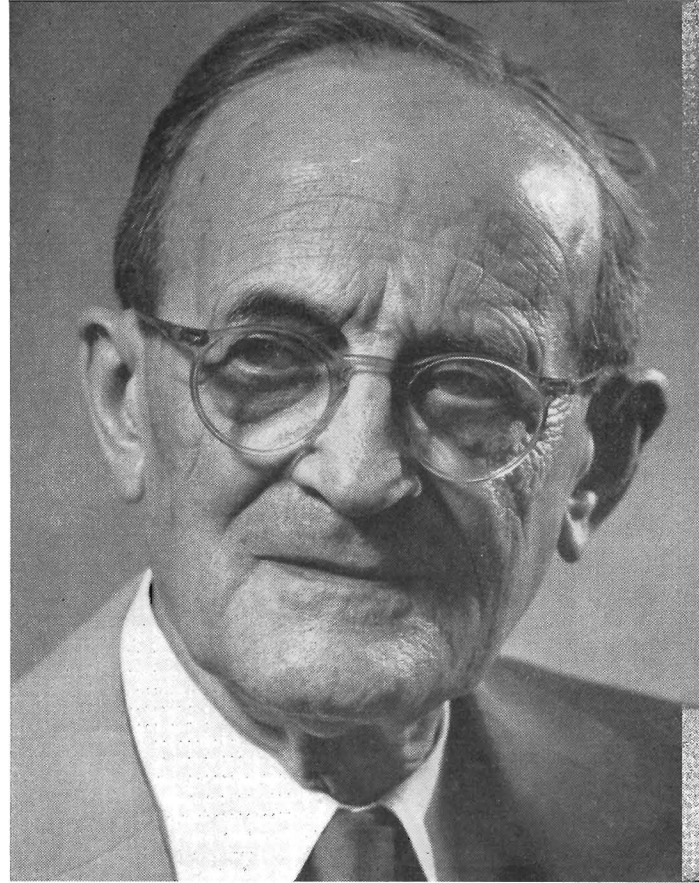
Alexander Suss Langsdorf, BSME 98

Almost every morning of the week, the Dean Emeritus stalks across the campus to his office in Cupples II. His step is a trifle more leisurely now that there is no student schedule to keep, and the forward tilt of his head is more meditative. He broods, as he has been doing for the last two years, on how to compress into half its length and bring up to date a well-known text on electrical machines. He likes this task of "streamlining" his book and conveying its information in fewer words. For, though he likes words and plays with them skillfully, he prefers the sense they make to their empty buzz in the human head.

Some mornings, he weighs the pros and cons of an industrial dispute he has been called upon to adjudicate. Or he records a note of another item of the University's long history, of which he can recall vividly and in detail the events of 60 years. Many of those incidents he has set down in an official record.

Because he is a philosopher as well as a practical scientist and administrator, he has worked out his own set of values and they have given a dignity to the many varied tasks of his long life.

Thousands of graduating engineers have stood in awe of him: not one has ever judged him unfair. He has fought with chancellors about the pay and promotion of his staff, knowing that a good school rewards its loyal teachers. He encouraged among his colleagues every aptitude for research, without sacrificing those close links with business and industry that keep academic routines from becoming inbred. As he has grown up with the technologies, those gaudy blossoms of the last half cen-



tury, he has continued to believe that the useful academic citizen is also a highly moral person and that human worth is greater than the machine.

This kind of belief he has practiced consistently. He served for 20 years on the City Plan Commission in St. Louis, and architects and engineers alike knew that "Alex's" proposals yielded no ground to the mean and local interests of the politicians. He has turned the same sharp, discerning intelligence to the wording of a patent specification as to the equity of a labor dispute. Out of his fund of humorous anecdotes about his bygone colleagues, he picks for retelling those that have a dash of irony in them—as when a professor's false pomp was shattered by a trivial circumstance or an administrator failed to see what every student knew.

Unofficially, the real Alex Langsdorf comes into view when he presides, as he has done innumerable times, at meetings of the Ethical Society. He speaks to a clear issue of moral responsibility, never as if the answer had been given, but as the human mind struggles to find one. In the small circle of the Sandwich Club, which he kept active for a quarter of a century, he served as the intellectual leaven of ministers, rabbis and occasional heretics, all of whom could find a meeting place in laughter, good sense and a devotion to many-sided truth. The academy, the community and that more significant community of folk who like to think—Alex Langsdorf possesses the golden key of citizenship in all three.

EDITORS NOTE: Dean Langsdorf, who recently observed his 80th birthday, will be honored at cornerstone-laying ceremonies for the University's new engineering building on October 25. A member of the Washington University faculty for 50 years, he was named dean emeritus of the Schools of Engineering and Architecture in 1948.

# ALUMNI NOTES

91-19

EDWARD B. FAY, MTS 86, CE 91, who was the engineer in charge of construction of the MacArthur and Chain of Rocks bridges across the Mississippi River, was recently awarded honorary membership in the Engineers Club of St. Louis at a dinner at Hotel Sheraton-Jefferson . . . The 42nd annual Buildings Officials' Conference in New Orleans last May was dedicated to ALBERT H. BAUM, MT 05, BSCE 09, building commissioner of the City of St. Louis and a former president of the organization . . . WILLIAM L. BRYAN, BSCE 13, has retired from the U.S. Army Engineer District in St. Louis after 45 years of service. He was guest of honor at a dinner given June 17 by his colleagues . . . PERCY L. GAINEV, MA 11, PhD 26, retired July 1 after 43 years at Kansas State College, where since 1946 he was head of the department of soil bacteriology. He became a professor in 1922 . . . MRS. MARIE UPDIKE WHITE, AB 15, MA 19, has retired as associate professor of English at Duke University after 28 years of teaching there. She is a specialist in modern drama.

21-29

WARDER RANNELS, LLB 21, Alexandria, Va., has retired as hearing examiner in the Bureau of Motor Carriers, Interstate Commerce Commission. He joined the commission in 1937 . . . CLARENCE G. QUERMANN, BSME 22, is a refrigeration engineer at the Midwest Engineering and Equipment Co., Chicago. He and his wife (VERA MARGARET TRAMPE, BSC 24) live at 2717 Estes avenue, Chicago 45 . . . New legal assistant to the Montana Supreme Court is WILLIAM EMMET GLORE, AB 23. He has practiced law in western Montana for 20 years . . . EUGENE R. KROPP, 23, a vice president of Union Electric Co. of Missouri, has been named head of the Loaned Executive Program recently adopted by the United Fund of Greater St. Louis . . . ROBERT J. CARTER, BSME 24, district manager of Stone & Webster Engineering Corp., Houston, has been named a special assistant to the managing director of E. B. Badger & Sons Ltd., London, a subsidiary of Stone & Webster in Great Britain. He joined the firm in 1939 in its Boston office . . . New president of the American Society of Refrigerating Engineers is HERMAN F. SPOEHRER, BSEE 24.

WILLIAM HARRY HUDSON, BSCE 26, is the new vice president and general manager of the St. Louis Southwestern Railway Co., with headquarters in Tyler, Tex. . . . T. JAMES BROWNLEE, LLB 29, has been named a national honor agent by the Equitable Life Assurance Society of the United States. He is a member of the firm's St. Louis agency . . . Winifred Cobblestick became the bride of CARROLL F. NEFF, AB 29, on May 4 in Woodside, Calif. He is in the research department of Foremost Dairies, San Francisco.

30-34

## CLASS OF 33

Remember your 25th reunion next June! Plans will follow later from the reunion committee, Edward Alt Jr., BSBA 33, chairman.

CLINTON B. BURNETT, BSBA 30, a vice president of Johns Manville Corp., New York, since 1946, has been appointed general manager of the firm's packings and friction materials division . . . HOWARD J.

MORGENS, AB 31, was elected president of the Procter & Gamble Company August 22. He succeeds Neil McElroy of Cincinnati, newly appointed U.S. Secretary of Defense. Election of Morgens moved him to the presidency after nine years as vice president, including three as executive vice president in charge of the major portion of the company's operations in the United States. He joined Procter & Gamble as a salesman in 1933, after receiving his degree of master of business administration from the Harvard Graduate School of Business Administration . . . C. R. STROCKHUS, BSEE 31, has been elected a vice president of Union Electric Co. of Missouri, with which he has been associated for the last 26 years. He will continue in his post of director of labor relations . . . LOLA M. SADLO, AB 32, MA 34, received the degree of doctor of education May 28 from the University of Southern California . . . MARTIN BRONFENBRENNER, AB 34, joined the faculty of Michigan State University last month as a professor of economics. He had previously taught at the University of Wisconsin . . . FRANCIS A. CASSERLY, AB 34, LLB 37, has moved his law offices to 610 Security Building, St. Louis 2 . . .

## HOMECOMING SCHEDULE

### Friday, November 1

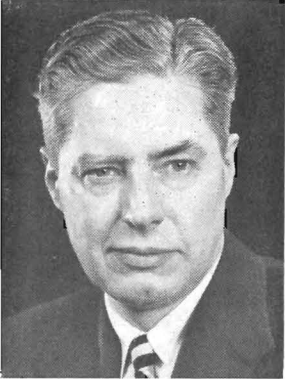
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| 6 p.m.    | Judging of fraternity house decorations and other campus decorations.                      |
| 7:30 p.m. | Torchlight parade, followed by pep rally and giant bonfire, Francis Field.                 |
| 8:30 p.m. | Family party and reception in Student Center for alumni and friends. Refreshments. prizes. |

### Saturday, November 2

- |                   |   |
|-------------------|---|
| 9:30 a.m.-12 noon | Homecoming parade, lead by WU band.   |
| 2 p.m.            | Football game with University of Omaha. Half-time activities: WU marching band, parade of floats, introduction of homecoming queen. |
| 4:30 p.m.         | Open house at Student Center after game for alumni and friends. Refreshments. Fraternity and sorority open houses.                  |
| 9 p.m.            | Homecoming dance, Field House.  |
| 11 p.m.           | Coronation of homecoming queen at dance.  |



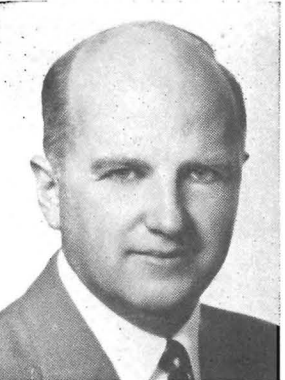
G. Duncan Bauman, LLB 48, named to the St. Louis Board of Election Commissioners.



C. R. Stockhus, BSEE 31, new vice president of Union Electric Company, St. Louis.



Nathan Kohn, AB, LLB 38, DEd 48, heads a St. Louis personnel consultant firm.



New general manager, Johns Manville Corp., New York, Clinton Burnett, BSBA 30.

ELLIOTT GILLERMAN, AB 34, MS 37, has been named associate professor of geology at the University of Kansas. He was formerly with the U.S. Geological Survey and since 1953 was a member of the University of Texas faculty . . . In July LON HOCKER, LLB 34, St. Louis attorney and Republican leader, was elected to the board of regents of the American College of Trial Lawyers. He is the first Missourian to serve on the governing body of the group . . . WU graduates employed by the J. Walter Thompson Co., Chicago, include GILBERT PALEN, AB 33, HENRY WHITESIDE, BSBA 33, MSBA 34, and CHARLES GAUSS, AB 49.

35-38

OLIVER E. AUER, BSCE 35, has joined the sales staff of Procon Inc., refinery, petrochemical and chemical plant construction firm . . . MRS. DAVID L. EVANS (MARY TRUEBLOOD, AB 35) leader of a Girl Scout troop at the Institute of Logopedics, Wichita, Kan., attended a workshop on scouting for the handicapped July 3-14 in Pleasantville, N. Y. . . . O. H. WILKENING, BSBA 35, has been named director of the University's Alumni Fund. For the past 11 years Wilkening has been a salesman with several St. Louis firms. He served five years in the Army . . . New professor of physics at Union College, Schenectady, N. Y., is WINFRED M. SCHWARZ, AB 36, MS 38. He joined the Union faculty in 1946 and had previously taught at Indiana University . . . The election of GEORGE W. STAMM, BSCE 37, as vice president and general sales manager of Crucible Steel Company of America was recently announced . . . VON ALLAN CARLISLE, LLB 38, former regional director of the Small Defense Plants Administration, has resigned as general counsel of the Chicago Housing Authority to return to private practice. His law offices are located at 1 North La Salle street, Chicago . . . ERNEST L. OHLE, AB 38, MS 40, has been appointed chief geologist for the Copper Range Company and its subsidiary, the White Pine Copper Company, White Pine, Mich. For the past nine years he had been a geologist for the St. Joseph Lead Company in Missouri . . . In St. Louis NATHAN KOHN JR., AB 38, LLB 38, DED 48, is co-director of Nicholson-Kohn and Associates, Inc., Personnel Consultants, an industrial personnel consulting service. The firm serves individuals, companies or agencies regarding psychological research, personnel appraisal, attitude and motivation studies and psychological testing.

41-47

W. C. BRECKENRIDGE LAMBERT, BSBA 41, MA 42, PhD 50, and MRS. LAMBERT (MARY ELLEN SAXON, MA 47) have moved to Omaha where he has accepted a position as associate professor of political science at the University of Omaha. They have five children, including twins born August 1 . . . FRANK DARR, BSBA 42, and Mrs. DARR (DOROTHY TODD, AB 43) are the parents of their fourth child and first daughter, Susan Todd Darr, on May 27 . . . JEAN CAUGHLAN, MSW 46, recently served as chairman of the commission on professional education of the Golden Gate chapter of the National Association of Social Workers . . . MABEL BRIDWELL, MSW 47, is engaged in research work for Community Studies, Inc., Kansas City . . . ROBERT CHIN-MIN CHIN, BSBA 47, MA 48, is treasurer of the Institute of Social and Personal Relations in Oakland, Calif. . . . WALLACE G. KLEIN, AB 47, MA 48, has been elected treasurer of the Modern Language Club of St. Louis. He is a teacher at University City, Mo., Senior High School . . . The birth of a second daughter, Mindy Warren, on April 11 has been announced by KENNARD H. MORGANSTERN, AB 47, MS 48, PhD 51, and Mrs. Morganstern. He is executive vice president of the Nuclear Corporation of America, Inc., New York City . . . HAL POTH, 47, exhibited paintings and drawings in the Kirkwood, Mo., Library this summer under auspices of the St. Louis County Artists' Guild. It was his first one-man show and included oil paintings, water colors and drawings done over a ten-year period.

48-49

G. DUNCAN BAUMAN, LLB 48, personnel manager of the *St. Louis Globe-Democrat*, was appointed in May by Missouri Governor James T. Blair to the St. Louis Board of Election Commissioners. He has been with the newspaper in various capacities since 1943 . . . HERBERT A. CROSBY, BSEE 48, MSEE 53, is an electrical engineer at the University of California's Los Alamos Scientific Laboratory . . . GENEVIEVE C. FAUSEK, AB 48, became the bride of Maynard Rinehart June 8 in Berkeley, Calif. . . . Mrs. RALPH A. FOURNIER (MARY JANE HENSKA, BArch 48) is the new president of the St. Louis Professional Chapter of the Association of Women in Architecture. Other officers include Mrs. CHARLES DANNA (DORIS ANDREWS, BArch 52) vice president, and BETTY LOU CUSTER, BArch 44, secretary-treasurer . . . The birth of a



daughter, Julia Anne, was announced May 10 by JOHN KISSEL, AB 48, and Mrs. Kissel.

MARVIN L. HAYES, BSBA 48, MSBA 49, has been appointed assistant to the secretary of Standard Oil Company (Indiana) at its general offices in Chicago. He has been with the firm since 1940 . . . ELVIN C. HIRSCH-BUEHLER, BSEE 49, and Rita McKenna were married July 26 at St. Francis of Assisi Church, Oakville, Mo. . . . FRITZ LOTHMAN, BSCE 49, has been named plant manager of the Oakland, Calif., division of the Sefton Fibre Can Company. He was formerly with the firm's Portland, Ore., office . . . JOHN H. PHELPS, BSEE 49, formerly supervisor of application engineering at the General Electric Company's Owensboro, Ky., plant, has been named a district commercial engineer at the firm's Schenectady, N. Y., headquarters . . . NANCY ROSE MEYER, BSBA 49, became the bride of Adrian Faigin July 3 in Los Angeles . . . DAVID J. ROGERS, MA 49, PhD 51, has been named curator of economic botany at the New York Botanical Garden . . . THOMAS L. SMITH, BSME 49, BSEd 50, MAEd 51, has joined the engineering department of Monsanto Chemical Company's research and engineering division in St. Louis . . . Mr. and Mrs. MURRAY BERGER (CAROL WINFIELD, AB 49) announce the birth of a daughter, Madeline Elizabeth on July 19 . . . A new orchid, designed for the home grower, has been created at the Missouri Botanical Garden as a result of research conducted by ROBERT J. GILLESPIE, AB 49, MA 53, who is in charge of orchid growing at the Garden.

50

MRS. CHARLOTTE EATON CORNWELL, BSEd 50, was married to Charles C. Sisler June 8 in the chapel of Central Presbyterian Church, St. Louis . . . WALTER H. FROMMER, AB 50, and Vivian Scott were married July 27 at the Boston University Chapel . . . CHARLES GRIPPI, AB 50, MA 53, a teacher at University City, Mo., Senior High School, will teach in Rome as a Fulbright Fellow this year . . . WILEY F. HANCE, AB 50, was producer of an ABC-TV program recently dedicated to the Shut-Ins' Day Association. Starring in the show was FANNIE HURST, AB 09. Hance is manager of public affairs for the network . . . New secretary of the Women's Advertising Club of St. Louis is JOAN IRBY, BSSE 50 . . . RUTH HOESSLE, BFA 54, was married to Dr. Floyd M. Freeman, DDS 54, on August 24. The Freemans will make their home at 3810 Keokuk avenue, St. Louis . . . SAUL LASSOFF, AB 50, received

a doctor of philosophy degree in June from Denver University . . . Grace Trippe became the bride of ROBERT BENJAMIN NEVINS, AB 50, on June 6 at St. Paul's Episcopal Church, Kansas City . . . WALLACE SIMONS, AB 50, recently married Joan Marie Joyce in the Little Church of the West in Las Vegas, Nev. He is a pilot for Pan American World Airways.

51-52

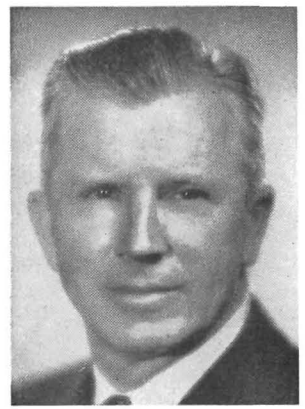
CAROL TRENT CHAPIN, BSEd 51, became the bride of Colin West July 29 in St. Louis . . . WILLIAM McALLISTER, MSW 51, is executive secretary of the West Branch YMCA, Chester, Pa. He and his wife (MARY McCLAIN, MSW 51) live at 436 Bradley street, Chester . . . SHEILA O'CONNOR, BSRet 51, former assistant in the WU News Bureau, was married June 29 in New York to John Alfred Osmundsen. Both are reporters for *Life* magazine . . . Mrs. Eloise Polk Bengtsson was married June 15 to DR. DIXON FLEMON SPIVY, LLB 51, MD 57, at the country home of her mother in St. Albans, Mo. . . . A master of science degree has been conferred on THOMAS W. BILHORN, AB 52, by the California Institute of Technology . . . LEWIS RUSSELL CRUM, MBA 52, received a doctor of education degree in June from Denver University . . . CAROLYN ELAINE QUAYLE, BSRet 52, became the bride of Charles J. McMullin July 6 in St. Louis . . . Rutgers University conferred the doctor of philosophy degree June 5 upon PASQUALE R. SFERRA, AB 52.

53

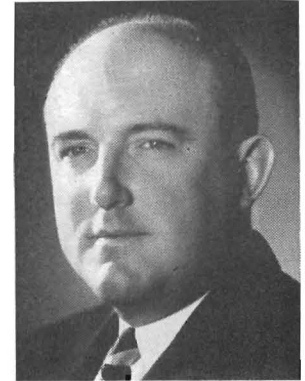
MELVIN LAWRENCE EVANS III, BSME 53, and Ann Patterson were married August 29 at the First Methodist Church in Mesa, Ariz. . . . NANCY GAY JENKINS, BFA 53, became the bride of Robert C. Held June 22 in Larchmont, N. Y. He and Mrs. Jenkins are associated with the research department of the Columbia Broadcasting Company. His book, *The Age of Firearms*, was recently published.

54

The marriage of JAMES F. BOKERN, BSBA 54, and Miss Taschia Ann Thies took place July 27 at Grace Methodist Church, St. Louis . . . BARBARA WENTWORTH BROWN, AB 54, became the bride of Thomas J. Holton August 10 in St. Louis. The bride is an assistant in the WU department of art and archaeology . . . An exhibit of paintings, prints and drawings



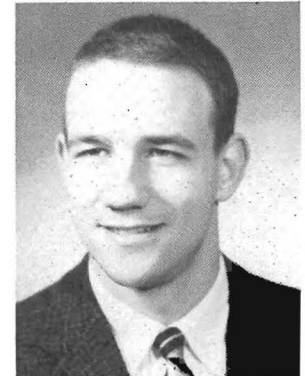
Appointed vice president, St. Louis Southwestern Railway, William H. Hudson, BSCE 26.



George Stamm, BSCE 37, newly elected vice president of Crucible Steel Company.



Mrs. Marie A. White, AB 15, MA 19, has retired from the faculty of Duke University.



Bill Gullion, BSBA 57, new athletic publicity director at Washington University.

by Mrs. HERBERT E. DUNCAN (PATRICIA DUBOSE, BFA 54) was held in June at the Toraya Department Store, Sasebo, Japan. Her husband, BArch 54, is a lieutenant (j.g.) stationed with the U.S. Navy at Sasebo . . . The birth of a son, Michael Clark Haas, on May 19 has been announced by Mr. and Mrs. JERRY HAAS (JACKLYN SECREST, AB 54) . . . E. GLENN HINSON, AB 54, was graduated from the Southern Baptist Theological Seminary, Louisville, Ky., May 24 with a bachelor of divinity degree . . . WILLIAM JOSEPH MAUL, AB 54, MA 56, St. Louis organist, has been awarded a second year's study grant to the Paris Conservatoire by the International Education Exchange program of the Department of State . . . MARJORIE SUSMAN, AB 54, athletic publicity director at Washington University for the past three years, has been named to the newly created post of assistant director of the University's Alumni Fund. Miss Susman was formerly director of public relations for Jewish Hospital . . . FERDINAND R. WIEDERHOLDT JR, BSCE 54, has joined Monsanto Chemical Company's inorganic chemicals division in St. Louis as a sales engineer.

55

LIEUT. LAWRENCE JAY ALTON, BSRet 55, U.S. Air Force, and Marilyn Rosenberg, 59, were married August 7 at Westwood Country Club, St. Louis . . . JANE FRANKLIN BRIDGES, AB 55, is a stewardess for American Airlines . . . DONALD DANFORTH JR., BSBA 55, and Miss Carolyn Grey Borders were married July 6 at the Church of St. Michael and St. George, St. Louis . . . ARTHUR W. GEBHARDT, BSEE 55, and Mrs. Gebhardt became the parents of a daughter, Gail Lynne, in June. They live at 1003 Demler avenue, Webster Groves 19, Mo. . . ANN GIESSOW, AB 55, and Dr. Richard H. Fallon were married June 28 in the chapel of St. Louis Cathedral, St. Louis . . . The degree of master of chemical engineering was awarded June 3 by the University of Delaware to ROBERT W. HACKAMACK, BSChE 55 . . . RABBI CHARLES HARTMAN, MSW 55, spiritual leader of Tpheris Israel Congregation in University City, Mo., has been named director of the Midwest Region of the Union of Orthodox Jewish Congregations in America. The region comprises more than 200 synagogues in 12 midwestern states . . . FIRST LIEUT. STEFAN HASSOLD, AB 55, has been assigned to the 554th Antiaircraft Artillery Missile Battalion in Stanton, Calif. . . SECOND LIEUT. (USA) HARVEY B. MEYER, BSBA, LLB 55, and

Mrs. MEYER (ELIZABETH OBERDORFER BSRet 53) announce the birth of a daughter, Suellen Marsha, on July 17. Meyer is assistant judge advocate at White Sands Proving Ground, N. M.

DEAN FRANCIS NIEDERNHOFER, BSME 55, received a master of automotive engineering degree from the Chrysler Institute of Engineering in Detroit in June . . . CYNTHIA DEHAVEN PITCOCK, AB 55, received a master of arts in teaching degree from George Peabody College for Teachers on May 31 . . . RONALD J. SILBER, BSBA 55, and Mrs. SILBER (ARLENE JOANN RAIN, 56) announce the birth of a daughter, Sharon Lee, on July 19. He is a first lieutenant in the U.S. Air Force, stationed at Malmstrom Air Force Base, Mont. . . Paintings by RICHARD SLIMON, BFA 55, and drawings by Norman Rudin, student in the School of Fine Arts, were shown at the Art Mart Gallery, Clayton, Mo., during July . . . ADA LOUISE WHITING, MSHPHEd 55, became the bride of Ronald G. Crosby at the Des Peres, Mo., Presbyterian Church.

56

Sandra Ann Bartunek was married to KENT JARVIS MCGINLEY, BSBA 56, June 22 in Knoxville, Ia. . . N. BERNARD BASCH, BSBA 56, WALTER S. MCFARLAND, BSBA 56, and GUY G. THACKER, BSCE 56, recently completed the 16-week course at the Naval Officers Candidate School, Newport, R. I., and received commissions as ensigns in the U. S. Naval Reserve . . . ERNEST A. BRYANT, PhD 56, has been employed by the University of California's Los Alamos Scientific Laboratory as a chemist. He will take part in the technical planning and results of field tests at the Eniwetok Proving Ground and Nevada test site . . . Announcement has been made of the engagement of Joan Cento to DONALD L. SCHLAPPRIZZI, AB 57. The wedding will take place in December in St. Louis . . . SECOND LIEUTS. MARLYN B. DRIKOW, BFA 56, and RICHARD L. LABOYTEAUX JR., BSBA 56, were recently graduated from the Army's Antiaircraft Artillery and Guided Missile School at Fort Bliss, Tex. . . MARILYN RUTH MERKEL, AB 56, became the bride of Thomas W. Becker June 8 in Webster Groves, Mo. . . JOE F. PAUL, BSChE 56, is a member of the research and engineering division of Monsanto Chemical Company's St. Louis plant . . . PVT. JERRY L. WANNINGER, BFA 56, was recently graduated from the supply specialist course at Fort Leonard Wood, Mo.



Recently appointed: Marjorie Susman, AB 54, assistant director of the Alumni Fund; O. W. Wilkening, BSBA 35, right, fund director; Thomas S. Thompson, director of Sustaining Associates Program.



New officers of Association of Women in Architecture: from left, Betty Lou Custer, BArch 41; Mary Jane Fournier, BArch 48; Doris Danna, BArch 52.



Howard Morgens, AB 31, right, recently elected president of Proctor & Gamble, with retiring President Neil H. McElroy, new Secretary of Defense.

JAMES F. BETTS, 57, of the Fette and Stith Insurance Agency in St. Louis, is attending an advanced training school at the home office of the New England Mutual Life Insurance Co., in Boston . . . A \$1,000 full-tuition scholarship to the School of Law at Yale University has been awarded to GARY N. CLARK, AB 57. He was also recently named one of four recipients of \$300 scholarships awarded by Omicron Delta Kappa . . . Kay Cougill became the bride of WILLIAM SUMMERS FARR JR, AB 57, in June at the Kirkwood, Mo., Methodist Church . . . ALLEN DICKSTEIN, BSME 57, has joined the engineering staff of Monsanto Chemical Company's St. Louis plant . . . JAMES GIVENS, BSChE 57, and Rosemary Hogan were married June 8 in St. Louis. They are making their home in Chicago . . . HORST A. GOEDE, AB 57, has received a Fulbright Award to study European history at the University of Cologne, Germany . . . Miss RACHEL HASPIEL, MA 57, has received a \$50 prize in the musicological research contest sponsored by Mu Phi Epsilon, honorary musical sorority in St. Louis. Her winning paper was originally written for a class in baroque music at the University.

KATHERINE LEE HELBING, AB 57, became the bride of FRANK R. ZALOUDEK, BSME 54, June 22 in Webster Groves, Mo. . . . LEXIE HILL, BSEd 57, left St. Louis in August for The Hague, The Netherlands, where she will teach at the American School for children of embassy personnel. She will teach the school's first program in health and physical education for 120 children from the first through ninth grades . . . FRED B. MATTHEWS, BSChE 57, is working for the Monsanto, Ill., plant of Monsanto Chemical Company . . . NANCY SUSAN MILLER, AB 57, became the bride of DANIEL BAILEY GALE, BArch 57, at Grace Episcopal Church, Kirkwood, Mo., on June 15 . . . A new Monsanto Chemical Company employee is ARLO E. MOEHLERPAH, BSChE 57 . . . Joan Thiele Rosenberger and JOHN DALE PERKINSON, BSIE 57, were married June 14 in Rochester, N. Y. . . . MERIAN JULIANE THIELE, BFA 57, became the bride of FRED W. GREEN, BSIE 57, June 16 in St. Louis . . . KENNETH W. WAGNER, BSChE 57, has joined Monsanto Chemical Company's St. Louis plant . . . First Lieuts. JACK W. FAIRLEY, DDS 57, JACK K. COOPER, DDS 57, and JOSEPH S. BAUGH, DDS 57, recently were graduated from the military medical orientation course at the Army Medical Service School, Fort Sam Houston, Texas . . . WILLIAM B. (BILL) GULLION, BSBA 57, a regular forward on the Washington University basketball teams

of the past three seasons, has been appointed athletic publicity director at the University.

VINCENT A. VENTO, BSEd 57, has been named assistant basketball coach at Washington University. Vento, who served as a student assistant freshman coach last season, was a member of the Bear basketball squad in 1954-55 and 1955-56. He will also assume duties in the extensive WU physical education program.

(Continued from Page 5)

Wynder and Miss Adele Croninger, AB 43, MA 48, research assistant in the department of surgery, participated, was that mice had developed skin cancer when cigarette tar was painted on their backs. A controversy began, the dust of which has not yet settled.

The 1944 Nobel Prize awarded to Dr. Erlanger and Dr. Gasser recognized their investigations on the mechanism whereby nerves carry impulses. These impulses are so weak and last so brief a time that measuring them was a difficult problem. The Washington University scientists adapted to this purpose an instrument called a cathode ray oscillograph, hooking it up in such a way that the tiny nerve impulses were magnified and sent into the tube, where they deflected a stream of electrons. The deflection could thus be measured.

When the specially adapted oscillograph was first put together in 1921 in the Medical School basement, it was a weird contraption that has been likened to a Rube Goldberg invention. Paraphernalia included ivory piano keys, all manner of switches and even overhead water shields to protect certain delicate parts in case somebody in the laboratory upstairs left a faucet running. Now the physiological cathode ray oscillograph is standard equipment for nerve research everywhere.

Drs. Carl F. and Certy T. Cori, the third husband and wife team to win the Nobel laureate, were singled out for their fact-finding on the way the body uses sugars and starches. They shared the 1947 prize with Dr. B. A. Houssey of Buenos Aires. The Coris were cited for their isolation of an enzyme that initiates the conversion of animal starch into sugar. Animal starch, or glycogen, is the form in which the body stores carbohydrates. Its component parts are molecules of glucose, a sugar. Enzymes are mysterious substances that speed up chemical transformations without themselves undergoing change.

Often it is the case that scientists know that certain gross changes take place in the life processes but are frustrated in their efforts to find precisely what occurs and why, because phases of the change cycle are

telescoped. In 1935, while experimenting with a mixture of ground muscle, in a phosphate solution, the Coris varied their technique and got exciting results. They found evidence of an enzyme theretofore undiscovered. Six years of work followed, and in 1941 the new enzyme was crystallized. The Coris called it phosphorylase.

In the spring of 1956 Washington University received a visit from Axel Hugo Theorell of the Nobel Institute in Stockholm, who won the Nobel award in 1955 for his work on enzymes. He praised the University as an internationally known center for research on enzymes. "It was not by chance," he said, "that I came here."

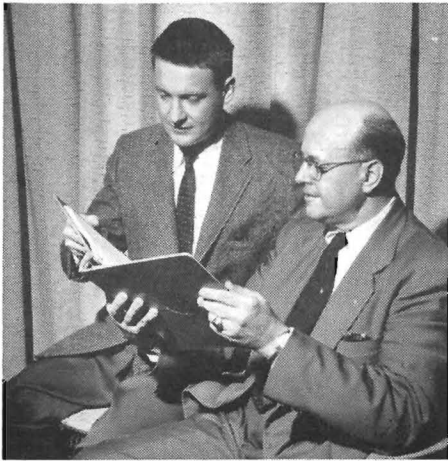
One of the more interesting recent developments at the School of Medicine is the University's participation in a program to encourage medical undergraduates to get into research. The school has been doing this independently since 1948, but last June the United States Public Health Service granted \$50,000 for expansion of the program. It is expected that additional grants will be made over a period of five years. The federal money is part of a \$500,000 a year allocation by Congress. Some seven other medical schools have received grants.

In the research program here undergraduates who show promise receive scholarships or stipends that enable them to devote time to special projects. Typically, this period would come at the end of a student's second year, when he has completed his textbook preparation and is ready to go into the hospital clinics for his final two years of training.

In June Dr. Dempsey, who is co-chairman of a national committee governing the federal research funds, announced that Gordon Miller of Miami, Fla., who had just finished his second year in the School of Medicine, had received a year's leave and \$3,200 to work on salt metabolism at the University College School of Medicine at the University of London. About 60 other undergraduates at the Medical School received grants for a summer of research here.

There is great competition among universities for first-rank scientists. Moreover, the relatively low pay received by the teacher-scientist makes it increasingly difficult for the academic world to compete with industry and the private practice of medicine. These factors underline the importance of excellent facilities for research.

It is significant that Washington University's new \$3,000,000 hospital-research building, to be constructed east of the David P. Wohl Jr. Memorial Hospital in the Medical Center, will have six of its 11 floors devoted to research in pathology, surgery and medicine. ●



William Webster, LLB 49, left, retiring Alumni Federation president, shows new club manual to Al Forrer, BSCE 32, Chicago president.



Louis Huber, MSW 49, left, president of the School of Social Work Alumni Association, and Benjamin Youngdahl, dean of the school, survey one of three bronze plaques presented by alumni to the school.



Kenneth E. Hudson, dean of the School of Fine Arts, and Mildred Bailey Carpenter display an oil painting by her husband Fred Green Carpenter, a gift to Washington University from the Fine Arts alumni.



At the Law Honors Banquet in June, seated left, Dean Milton Green, Chancellor Shepley, LLB 22, Judge Randolph Weber, LLB 33; standing, Judge James Douglas, LLB 21, Dean James Pike, speaker.



At the Alumni Federation luncheon June 10, seated from left, new officers are: Mrs. J. A. Harnett (Katherine Pollard Hafner, AB 27), member-at-large; Louis Huber, MSW 49, treasurer; Dr. J. Paul Guidry, DDS 38, vice president; William H. Webster, LLB 49, retiring president; Joan Irby, BSSS 50, secretary, and Louis Y. Horton, BSBA, MSBA 34, president.

# TALK ABOUT ALUMNI

## NEW MANUAL FOR ALUMNI GROUPS

A manual for alumni clubs has been prepared by the WU Alumni Federation and was mailed during the summer to 55 alumni officers and potential alumni organizers. Designed to help present officers and to assist interested groups in forming active clubs, the manual suggests programs, defines methods of organization and financial operation, lists specific services offered to the groups by the WU Alumni Office and gives hints on the handling of publicity for meetings and social affairs.

## IN LAW

Paul A. Freund, AB 28, named last fall as editor-in-chief of a proposed seven-volume history of the U.S. Supreme Court, has been assigned to write the volume dealing with "Depression, New Deal and the Court in Crisis, 1930-41." The work was authorized by Congress in 1955 and will be financed by a legacy from the late Justice Oliver Wendell Holmes, who died in 1935. Freund, who is an authority on the Supreme Court, was appointed Royall Professor of Law at Harvard University in July. A second volume, "Reconstruction and Reunion, 1864-88," will be written by Charles Fairman, former Charles Nagel Professor of Constitutional Law and Political Science in the WU School of Law. Fairman is now a professor of law at Harvard University.

## ELECTED TO OFFICE

Five alumni of the School of Law were elected to offices in the St. Louis Bar Association in May. The men are: Rexford Caruthers, LLB 49, vice president; Herbert E. Barnard, LLB 25, vice president; Ralph R. Neuhooff Jr., LLB 46, treasurer; John J. Kelly Jr., LLB 47, member of the executive committee, and Harold B. Bamburg, LLB 49, member of the admissions committee.

## IN ST. LOUIS

Alumni club presidents and fund chairmen from ten cities will attend the alumni fund planning meeting to be held in St. Louis October 19-20. Representatives from Philadelphia, Cleveland, Detroit, St. Louis, New York, Washington, D. C., Kansas City, Chicago, Los Angeles and San Francisco will meet to plan the personal solicitation phase of the coming alumni fund campaign.

## IN SAN FRANCISCO

Members of the San Francisco Alumni Club held a dinner meeting at Kuo Wah Restaurant on June 22. Guests for the occasion were Fred G. Kettelkamp, AB 40, director of alumni relations, and Mrs. Kettelkamp.

## IN CHICAGO

On June 16 the Chicago Alumni Club held a picnic at the home of Mrs. Henry Pierson (Harriet Chittenden, 25) past president of the group.

## IN SCIENCE

Arnold M. Friedman, PhD 53, a physicist at the United States Atomic Energy Commission's Argonne National Laboratory, was a member of an international team of scientists from the United States, Britain and Sweden which last July announced creation of a new artificial element, nobelium. The tenth man-made element to be added to nature's original "Periodic Table of the Elements," nobelium, element 102, was created by bombarding curium, element 96, with nuclei of carbon. The new element was called nobelium after the Nobel Institute of Physics at Stockholm, Sweden, where the synthesis was achieved.

HELP DECIDE • • •

WHO WILL GET

WU ALUMNI CITATIONS

IN 1958

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- \* professional achievement
- \* service to WU
- \* community contributions

ALUMNI OFFICE, BOX 177, WASHINGTON UNIVERSITY

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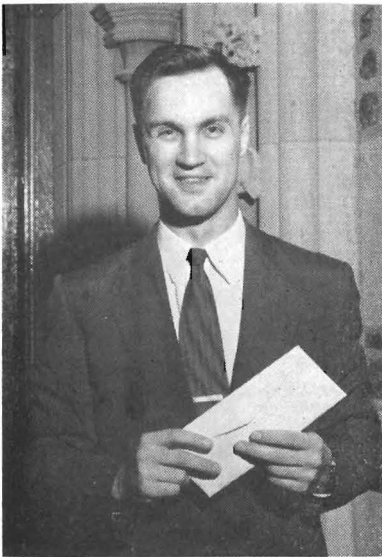
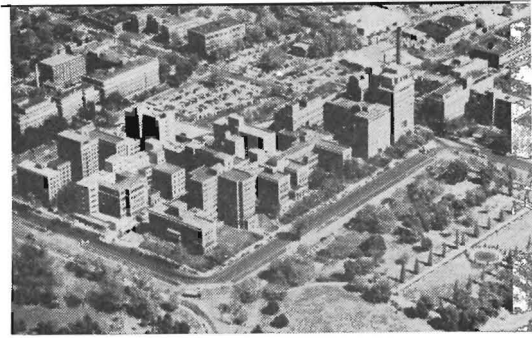
Entered WU \_\_\_\_\_ Left \_\_\_\_\_ Degree \_\_\_\_\_

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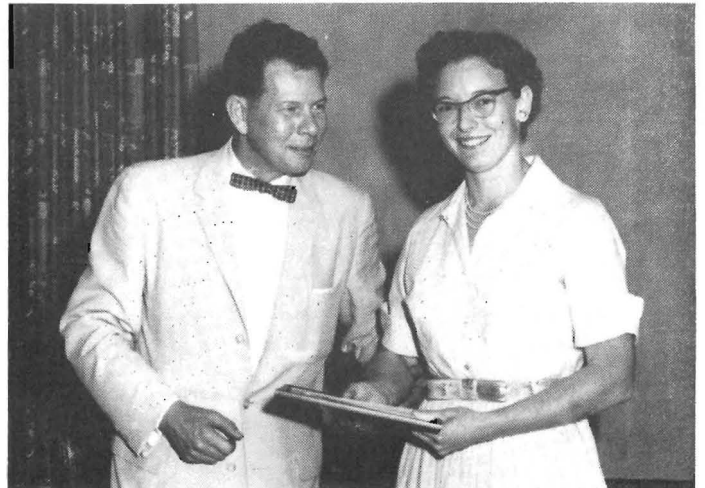
Not eligible are faculty and corporation members and honorary degree recipients.



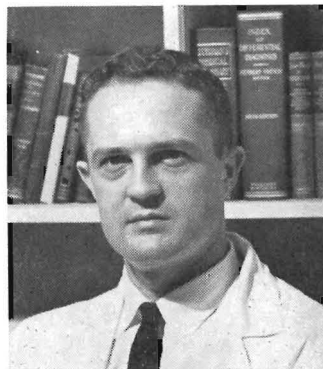
Dr. Lewis J. Thomas, MD 57, winner of the \$500 Borden Undergraduate Research award June 11 at Medical School award night in Graham Chapel.



Presentation of the Evarts Graham award for outstanding contributions to surgery was made June 11 to Dr. Frederick A. Collier, right, chairman of the department of surgery at the University of Michigan. Dr. Oliver H. Lowry, dean of the WU Medical School is at left.



At the School of Dentistry alumni-senior award night June 7 Dr. Patricia Parsons, DDS 57, received the Dental Alumni Association prize, Alpha Omega award and American Academy of Dental Medicine award. Dental Alumni President Dr. Carl W. Lattner, DDS 40, is at left.



Dr. Hugh Chaplin Jr., assistant professor of medicine at the School of Medicine, who was named associate dean July 1.

# KINGSHIGHWAY CAMPUS

news of medical, dental and nursing schools

**NEW HOSPITAL . . .** Plans for a new 11-story hospital-research building east of the David P. Wohl Jr. Memorial Hospital in the Washington University medical center were announced in August. A grant of \$743,238 from the U. S. Department of Health, Welfare and Education will be used for construction of the six-story research portion of the building, which will combine laboratory, teaching and hospital facilities.

In acknowledging the grant, Dean Oliver Lowry of the School of Medicine said, "This award will aid in construction of research facilities in a new combination hospital-research building made possible in part by gifts from Mr. and Mrs. David P. Wohl and the Wohl Foundation. The new building will adjoin the Wohl Hospital and will match it in design."

The building is expected to cost about \$3,000,000, including equipment. Research floors will be devoted to pathology, surgery and medicine. From 80 to 90 hospital beds will be located on three of the floors, with remaining floors used for outpatient facilities, an amphitheatre and administrative offices.

**NATIONAL INSTITUTES OF HEALTH GRANT . . .** In June the School of Medicine was awarded a \$50,000 grant by the National Institutes of Health of the U.S. Public Health Service. The grant is part of a \$500,000 national program undertaken by the Public Health Service and will be used to expand student research at the Medical School.

**NATIONAL SCIENCE FOUNDATION GRANT . . .** Dr. Jack L. Strominger, assistant professor of pharmacology at the School of Medicine, was awarded a grant of \$5,000 by the National Science Foundation in July to help support his research in "Uridine Diphosphoglucose Dehydrogenase."

**GRAHAM AWARD . . .** Dr. Frederick A. Collier, professor and chairman of the department of surgery at the University of Michigan, was awarded the second Graham Award for outstanding contributions to surgery, presented in honor of the late Dr. Evarts A. Graham, at a ceremony June 10 in the David P. Wohl Jr. Memorial Hospital auditorium. After presentation of the award Dr. Collier spoke on "Surgery and Science." He was also guest speaker at the School of Medicine's senior award night June 11 in Graham Memorial Chapel on the campus.

**A DESPERATE NEED . . .** To help promote anatomical teaching and research, more than 30 alumni and

friends of Washington University have willed their bodies to the School of Medicine to be used for study. Dr. Edward W. Dempsey, professor and chairman of the department of anatomy, who made the announcement in July, said: "Most of us will not be able to will large sums of money for the advancement of medical science, but such a step as this is a splendid contribution to medical progress because there is a desperate need for bodies used in the training of our future physicians."

**INTERNATIONAL GERONTOLOGICAL CONGRESS . . .** Seven members of the School of Medicine faculty participated in the Fourth International Gerontological Congress July 14-19 in Merano, Italy. Participants included: Dr. E. V. Cowdry, research professor emeritus and director of the Wernse Laboratory of Cancer Research; Dr. John Esben Kirk, associate professor of medicine and director of research in the division of gerontology; Dr. Ivan N. Mensh, associate professor of medical psychology; Dr. Philip G. Ackermann, research associate in gerontology; Drs. Martin and Ruth Silberberg, assistant professors of pathology, and William B. Kountz, MD 26, assistant professor of clinical medicine.

Attending the Congress from the Hilltop Campus were: Dr. Willis H. Reals, professor of adult education; Dr. Marion E. Bunch, professor of psychology, and Dr. Philip H. DuBois, professor of psychology.

**FACULTY APPOINTMENTS . . .** The appointment of 19 new members to the faculty of the School of Medicine and two new members to the faculty of the Dental School was announced in August by Chancellor Shepley.

Assistant professors in the School of Medicine are Drs. Hassan Azima, psychiatry and neurology; Robert M. Burton, pharmacology; A. Duncan Chiquoine, anatomy; Leslie C. Drews, ophthalmology; Jack Hasson, pathology; Fred J. Hodges, radiology; David Kipnis, internal medicine; Robert M. O'Neal, pathology; Malcolm H. Stroud, otolaryngology.

New instructors named to the faculty include Drs. Philip Comens, internal medicine; William S. Coxe, surgery; Natalie A. Eisen, pediatrics; Carl Frieden, biological chemistry; Israel R. Lehman, microbiology; David B. McDougal Jr., pharmacology; Malcolm H. McGavran, surgery; Bernard Shore, physiology; Sol Weisman, obstetrics and gynecology, and James A. Wood, internal medicine. Drs. William I. Allen and Harold Blank were appointed instructors in the School of Dentistry.



Dr. Samuel P. Martin, MD 41, has been named to the Association of American Physicians.



In May, the Veterans Administration presented a meritorious service award to the nursing unit of its San Francisco office, headed by Myrtle H. Miller, RN 25, second from left.



In July Dr. John T. Bird, DDS 43, was appointed assistant dean of the Dental School.



Maj. Gen. W. E. Shambora, Brooke Army Medical Center commander, and Mrs. Smith pin insignia of his new rank on Maj. Gen. Stuart G. Smith, MD 24, Brooke Hospital commander.



Dr. Delevan Calkins, MD 31, newly elected president of the Medical Alumni Association.



Dr. O. W. Brandhorst, DDS 15, recently appointed to a U.S. dental survey commission.



# KINGSHIGHWAY CAMPUS

## alumni notes

### alumni notes

07

LIEUT. COL. USA (Ret) THOMAS D. WOODSON, MD 07, has received a scroll certificate of achievement from the Surgeon General's department of the Army for long service as a medical officer.

15

DR. O. W. BRANDHORST, DDS 15, former dean of the School of Dentistry and now executive secretary of the American College of Dentists, has been appointed to a commission for a survey of dentistry in the United States . . . DR. EUGENE R. KELLERSBERGER, MD 15, was the subject of an article, "Doctor Not Afraid," in the April-June issue of the *Leprosy Missions Digest*. Dr. Kellersberger, 1957 recipient of a WU alumni citation, is an authority on African sleeping sickness and leprosy. He has spent 25 years in Africa doing medical missionary work.

20-25

On April 12 at Waco, Tex., DR. LEE CADY, MD 22, was awarded a plaque and certificate for "outstanding contributions in physical medicine and rehabilitation" by the Texas-Louisiana Chapter of the Association of Physical and Mental Rehabilitation Therapists. On May 1, Cady, who is manager of the Veterans Administration Hospital at Houston, was awarded the governor's certificate of the President's Committee on Employment of the Physically Handicapped . . . MILDRED TROTTER, MS 21, PhD 24, professor of gross anatomy at the School of Medicine, was elected president of the Missouri State Anatomical Board at the group's annual meeting . . . In May DR. STUART G. SMITH, MD 24, commanding general of Brooke Army Hospital at Fort Sam Houston, Tex., was promoted to the rank of major general . . . A meritorious service award, one of the highest distinctions given by the Veterans Administration, was presented in May to the nursing unit of the Veterans Administration San Francisco Regional Office, headed by MYRTLE HORNBUCKLE MILLER, RN 25.

26-35

The Deputy Commander of Walter Reed Army Hospital, DR. JAMES C. FORSEE, MD

29, was promoted to the rank of brigadier general in June . . . LEROY BOLING, MS 30, PhD 35, dean and professor of anatomy at the School of Dentistry, is the new vice president of the Missouri State Anatomical Board . . . DR. DELEVAN CALKINS, MD 31, has been elected president of the Medical Alumni Association. President-elect is DR. KEITH WILSON, MD 34 . . . DR. BENJAMIN FRIEDMAN, MD 31, has been appointed chief of medicine at the Veterans Administration Hospital, Dallas, and professor of medicine at the University of Texas Southwestern Medical School.

36-41

DR. LAWRENCE BRESLOW, AB 32, MD 36, clinical assistant professor of pediatrics at the University of Illinois School of Medicine, is the author of an article entitled "A Clinical Approach to Infantile Colic," which appeared in the February issue of *The Journal of Pediatrics* . . . DR. JULIAN P. LEVINSON, MD 37, represented Washington University at ceremonies inaugurating Dr. Edward H. Litchfield as twelfth chancellor of the University of Pittsburgh in May. Dr. Levinson was one of more than 700 educators present for the three-day occasion . . . An article entitled "March Hemoglobinuria," which appeared in the July 27 edition of *The Journal of the American Medical Association*, was written by DR. WILLIAM C. STAHL, MD 41. The article was read originally before the Ohio College Health Association at Ohio State University, Columbus, in April 1956. Dr. Stahl is associate physician at Ohio State's Health Service . . . DR. SAMUEL P. MARTIN, MD 41, a professor at the University of Florida College of Medicine, has been elected to membership in the Association of American Physicians.

42-45

DR. EWALD W. BUSSE, MD 42, chairman of the Duke University Medical School's psychiatry department and council on gerontology, has been named chief investigator for the university's newly established regional center for research on aging. First of its kind in the nation, the center will be directed toward slowing the aging process, promoting the health of elderly persons and preventing or delaying institutionalization of the aged . . . On July 1 DR. JOHN T. BIRD JR., DDS 43, associate professor of dental medicine, became assistant

dean of the Washington University Dental School. Dr. Bird has been a member of the faculty since 1947 and since 1953 has served as secretary of the dental faculty. He is editor of the *Dental Journal*, published by the School of Dentistry. From 1944 to 1946 he served as a major in the Army Air Force Dental Corps in Africa and France . . . Recently named a training analyst and lecturer for the Institute for Psychoanalysis in Chicago was DR. LOUIS A. GOTTSCHALK, AB 40, MD 43. Dr. Gottschalk is an associate professor and coordinator of research in the department of psychiatry at the University of Cincinnati College of Medicine . . . DR. RICHARD W. YORE, MD 43, has been elected vice president of the Medical Alumni Association for 1957-58 . . . Recently elected treasurer of the Society for Applied Anthropology was DR. SAMUEL B. GUZE, MD 45, assistant professor of medicine in the School of Medicine.

46-50

DR. JAMES W. OWEN, MD 46, is the newly elected secretary-treasurer of the Medical Alumni Association . . . DR. JAMES C. SISK, AB 43, MD 46, St. Louis dermatologist, spoke on "Diagnosis and Management of Common Skin Diseases" at a meeting of the Mineral Area County Medical Society May 23 at the State Hospital at Farmington, Mo. . . DR. MARVIN S. BURSTONE, DDS 46, MA 49, a former instructor in pathology at the Dental School, was a member of the faculty giving a post-graduate course in the "Application of Histochemistry to Pathology" May 6-8 at the Armed Forces Institute of Pathology, Walter Reed Army Medical Center, Washington, D. C.

51-56

DR. RICHARD L. ELLIS, DDS 51, and Mrs. Ellis announce the birth of their first daughter, fourth child, Susan, on May 24, in Salt Lake City. The Ellises have three sons, Rick, Doug and Mark . . . DR. ALBERT M. LERNER, MD 54, and Marianne Selker Dodek were married June 7 at the Woodmont Country Club, Washington, D. C.

DR. ROBERT E. CARAWAY, MD 56, has been named a fellow at Menninger's Institute in Topeka, Kan., where he is serving his residency. MRS. CARAWAY (ELIZABETH L. BERNDT, AB 55) is a teacher in the Topeka public schools.

# ALMA MATER MOURNS

88-01

NEUHOFF, GEORGE L., PhB 88, MA 90, September 8 of infirmities at Hilltop House nursing home, St. Louis. He had practiced law here for 65 years until retiring two years ago.

JONES, E. F. BERKLEY, MTS 93, in August at his home in Ferguson, Mo., at the age of 93. Surviving are four sons.

MOORE, WILLIAM D., MTS 93, May 14 in Chicago following a two-week illness.

ROBB, DR. MALCOLM, DDS 94, a past president of the St. Louis Dental Society, of cancer June 30 at Deaconess Hospital, St. Louis. He was 84 years old and had practiced dentistry in St. Louis for 57 years until his retirement six years ago.

SCHLOSSSTEIN, DR. ADOLPH G., MD 94, on May 23 in St. Louis following a fall at his home, 3438 Russell boulevard.

AHLBRANDT, DR. C. G., MD 95, a retired physician and druggist, June 20 at his home in Kirkwood, Mo., following a heart attack.

ITTNER, ANTHONY F., AB 95, LLB 97, St. Louis lawyer and former circuit judge, on July 15 at a convalescent home in Festus, Mo. He was 84 years old.

ROSENWALD, LUCIAN, BSCE 96, at his home in Kansas City on June 2.

HARRIS, DR. I. J., MD 01, a retired physician, of heart disease on June 13 at Jewish Hospital in St. Louis. He practiced medicine in the St. Louis area for 55 years.

02-17

MILLER, DR. H. E., MD 02, St. Louis specialist in diseases of the nose, throat and ear for more than 50 years, on August 3 at Deaconess Hospital at the age of 79.

TURNER, MRS. L. D. (ALICE TITTMANN, AB 02), of Belleville, Ill. Survivors include her husband, attorney L. D. Turner, a daughter, Mrs. W. E. Ackermann, and a son, Don Turner Jr. of Tulsa, Okla.

STEVENS, GRAHAM COOK, MTS 03, BSChE 07, after a long illness on July 17 in Wolcott, N. Y., where he was executive vice president of the local bank.

LISCHER, DR. R. F., MD 04, a general practitioner in Mascoutah, Ill., for 50 years, at St. Elizabeth's Hospital, Belleville, Ill., on July 6. He was 83 years old.

WHITEHEAD, WALTER H., MTS 04, of a heart ailment at his home in Kimmswick, Mo., June 4. He was a retired grain merchant. Surviving are his widow, two daughters and two sons.

BREWSTER, DR. BERT M., MD 05, a practicing physician for 52 years, of heart disease on August 21 at his home in Jerseyville, Ill.

GOODMAN, BURR S., LLB 05, St. Louis attorney for 54 years, of cancer on April 18 at his home, 1625 Talisman lane, Spanish Lake, Mo. He was 76 years old.

GOODMAN, DR. DANIEL CARSON, MD 05, medical specialist, novelist and motion picture executive, at Hunterdon Medical Center, Flemington, N. J., on May 16 after a three-week illness.

MCNULTY, DR. JOHN B., MD 09, on July 18 in Memphis, Tenn. Dr. McNulty, a victim of paralysis in recent years, had been a practicing physician in Memphis since his graduation from Medical School.

BECHTOLD, DR. EDMOND, MD 15, retired physician and surgeon of Belleville, Ill., on July 16 at St. Elizabeth's Hospital of heart disease.

HOERR, ROLAND M., AB 15, president of the Western Railway Equipment Com-

pany, on July 12 at Barnes Hospital in St. Louis. He was 65 years old. Mr. Hoerr was also board chairman of Midvale Mining and Manufacturing Company and Midvale Material Handling Company, and president of Railway Devices Co. He was a member of the WU board of directors.

FLEMING, DR. JOHN M., DDS 17, on June 18 of heart disease at St. John's Hospital in St. Louis.

23-51

HAMLIN, EDWARD W., BSC 23, after a long illness on May 7 in St. Louis, a month after his retirement from the administrative staff of the St. Louis Post-Dispatch radio and television stations.

LAMKE, EDWIN A., AB 28, MA 29, September 8 at a Bethesda, Md., hospital of a cerebral hemorrhage. He was 49 years old.

SCHULMAN, MAURICE, LLB 28, Los Angeles attorney, of a heart attack in May. He was a past president of the California Alumni Club.

COCHRAN, RANDALL, MAEd 51, a teacher at Kirkwood, Mo., High School for 16 years, of cancer on June 1 at St. Joseph Hospital, Kirkwood.

## FACULTY

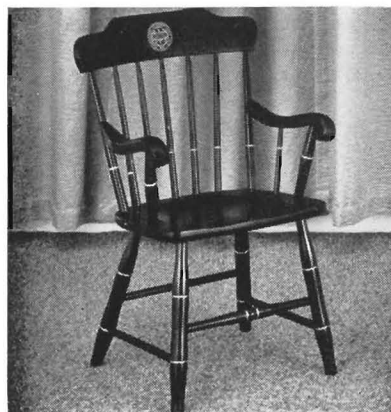
FULLER, WARNER, Dean of the School of Law from 1944 to the spring of 1945, on June 11 of cancer. He was 55 years old. Fuller joined Terminal Railroad Association as general counsel in the spring of 1945 and was made vice president and general counsel in September of that year.

STEPHENS, EUGENE, MTS 29, assistant professor emeritus of mathematics, on August 4 of a heart ailment at Felton, Calif. He was 78 years old and had retired in 1944 after 26 years on the University faculty.

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Or Full Size Arm Chair  
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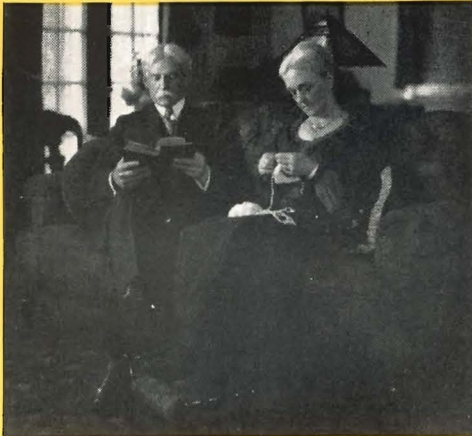
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(Note: Expressman will collect shipping charges.)

# W U

## DO YOU REMEMBER?



Chancellor Frederic Aldin Hall, who headed the University from 1913 to 1923, photographed with Mrs. Hall.



Construction of Robert Somers Brookings Hall in 1900. Original name of the building, University Hall, was changed in 1929 to honor its donor.



First football game at Francis Field in 1904 between Haskel and the Carlyle Indians. The first concrete stadium in the country, Francis Field was built for 1904 Olympic Games.



WASHINGTON UNIVERSITY CALENDAR OF EVENTS

OCT. 14	THIRTY-NINTH REUNION of the Manual Training School Alumni Association, Hotel Chase	NOV. 15-17	FILM ART SERIES—"Birth of a Nation" (American, 1915)—Brown Hall Auditorium, 8:15 p.m. and Sunday matinee, 3 p.m.
OCT. 16-17	INDUSTRIAL RELATIONS CONFERENCE — Sponsored by University College — Registration, Student Center, 8 a.m.—First session, Graham Memorial Chapel, 9 a.m.	NOV. 17	WASHINGTON UNIVERSITY CONCERT — Fine Arts Quartet—William Schatzkamer, pianist—Graham Memorial Chapel, 8 p.m.
OCT. 18-20	FILM ART SERIES — "The Red Shoes" (British) with Moira Shearer—Brown Hall Auditorium, 8:15 p.m. and Sunday matinee, 3 p.m.	NOV. 22	WU ASSOCIATION LECTURE — Huston C. Smith — "A Different Focus"—Graham Memorial Chapel, 8:15 p.m.
OCT. 19-20	ALUMNI FUND PLANNING MEETING—Hotel Chase	NOV. 24	WU ORCHESTRA CONCERT, Graham Memorial Chapel, 8 p.m.
OCT. 25	CORNERSTONE-LAYING CEREMONY for new engineering building, honoring Alexander S. Langsdorf, dean emeritus of the Schools of Engineering and Architecture, 4:30 p.m., followed by a reception at the Chancellor's Residence	NOV. 30	BASKETBALL GAME—Illinois College—Francis Field House, 8:15 p.m.
	WU ASSOCIATION LECTURE — Louis Fischer—"A Report on Russia and the Satellites"—Graham Memorial Chapel, 8:15 p.m.	DEC. 3	BASKETBALL GAME — Missouri Mines — Francis Field House, 8:15 p.m.
OCT. 25-27	FILM ART SERIES — "Carmen" (French) with Viviane Romance—Brown Hall Auditorium, 8:15 p.m. and Sunday matinee, 3 p.m.	DEC. 4	WU CHOIR—Convention Hall, Kiel Auditorium, 8:15 p.m.
OCT. 26	PERSONNEL WOMEN OF GREATER ST. LOUIS CONFERENCE—Registration, Student Center, 8:15 a.m. — Opening session, Louderman Hall Auditorium, 9:30 a.m.	DEC. 6	BASKETBALL GAME — Texas Western—Francis Field House, 8:15 p.m.
			WU ASSOCIATION LECTURE — Aubert Lavastida—"South America, Coast to Coast," illustrated—Graham Memorial Chapel, 8:15 p.m.
NOV. 1-3	OPERA WORKSHOP PRODUCTION—"La Boheme"—Brown Hall, 8:30 p.m.	DEC. 6-8	FILM ART SERIES—"The Love of Jeanne Ney" (German, 1927) — Brown Hall Auditorium, 8:15 p.m. and Sunday matinee, 3 p.m.
NOV. 1	HOMECOMING WEEKEND BEGINS	DEC. 8	WU CHOIR — "King David," by Arthur Honegger — Donn Weiss, director—Graham Memorial Chapel, 8 p.m.
NOV. 2	HOMECOMING FOOTBALL GAME — University of Omaha — Francis Field, 2 p.m.	DEC. 9	BASKETBALL GAME — University of Wisconsin—Francis Field House, 8:15 p.m.
NOV. 8	WU ASSOCIATION LECTURE — Arthur C. Twomey—"North to the Polar Seas," illustrated — Graham Memorial Chapel, 8:15 p.m.		
		<b>1957 FOOTBALL SCHEDULE</b>	
		Date	Opponent
		Place	
		OCT. 12	Drake University St. Louis
		OCT. 19	Western Mich. Kalamazoo, Mich.
		OCT. 26	U. of So. Dakota Vermillion, S. D.
		NOV. 2	University of Omaha St. Louis (Homecoming)
		NOV. 9	Bradley University Peoria, Ill.
		NOV. 16	Butler U. Indianapolis, Ind.
		NOV. 23	Washington & Lee Lexington, Va.