PROF. DUNLAP RETIRES
JUNE 30, 1960

Professor A. Lee Dunlap retires from his professorship in Mechanical Engineering on June 30, 1960, after thirty-six years of service at Tulane University. He is well-remembered by classes of mechanical engineering students to whom he taught machine design and by many engineering graduates of other fields who had him as their instructor in mechanics and strength of materials.

Professor Dunlap joined the faculty at Tulane in September 1924 as an Assistant Professor of Mechanical Engineering, coming to us from the University of Pennsylvania where he was an instructor in the Mechanical Engineer Department. He was graduated from the University of Pennsylvania with a B.S. in Mechanical Engineering in 1917. From that time until 1920, he engaged in professional work with the Goodyear Tire and Rubber Company in Akron, Ohio, and International Shipbuilding Company at Hog Island, Pennsylvania.

He later earned the mechanical engineering degree from the University of Pennsylvania in 1927.

In addition to his interest and teaching in the fields of machine design and mechanics, he has become a specialist on fire protection and consulted in this area for many years. He has recently served as chairman of the Fire Prevention Committee of the Chamber of Commerce and has participated in many activities and programs in this area. He has served the New Orleans Public Service with guidance and assistance in their fire protection work for many years.

He is a past president and life member of the Louisiana Engineering Society, and a member also of the American Society for Engineering Education and the National Fire Protection Association. He was also elected to Tau Beta Pi and Sigma Tau during his career. Professor Dunlap and his wife, the former Ruth Randolph Wallace, share the congratulations and best wishes of hundreds of engineering alumni, colleagues, and friends as they approach this new milestone in his career, when he assumes the title of Emeritus Professor of Mechanical Engineering. His plans for the years ahead have not fully crystallized, but he will continue to devote part of his time to Tulane in the capacity of Special Assistant in Engineering Drawing in the development of a new course in engineering drawing and graphics.

14th Annual Alumni Fund Drive Requires Donors

ENGINEERS RALLY TO THE CAUSE

Those of us who maintain our interest in Tulane after graduation soon come to realize the tremendous problems involved in keeping a great university great. As students, we paid our tuition or had it paid for us, met or failed to meet the academic requirements, and were graduated or not. There seemed to be little more to it than that. We took the faculty, the administration, the plant, the operation of the university for granted. Oh, maybe, we noticed now and then something that could be improved and wasn't, but we knew that we were attending one of the best universities in the country. And we knew it would be there tomorrow, and next week, and the next term, and thereafter. When we were in school, very few of us realized that our tuition covered only a portion of the cost of our education, and that the balance was made up through returns from endowment and through gifts.

But after graduation, we slowly became aware that a lot went on behind the scenes that we hadn't known about. We began to learn of the continual struggle to maintain or to improve standards, the search for personnel, the study of curricula, plant operation, all complicated and perhaps impeded by the problem of securing adequate funds. With the University growing faster than its endowment, and with practical limits to the tuition rates, it is imperative that the difference be made up by gifts. Necessarily the majority of gifts must come from alumni, since we cannot expect non-Tulane people to understand our problems as we do. And we

HAVE YOU RETURNED YOUR QUESTIONNAIRE?
If you haven’t, please mail today so that we will have complete data on all graduates.

(See FUND — Page 4)
THE TULANE ENGINEER
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PROF. KINARD RESIGNS TO ENTER INDUSTRY
Mr. James E. Kinard, Assistant Professor of Chemical Engineering, resigned February 1 to accept a position with Monsanto Chemical Company after two and one-half years of service at Tulane. Mr. Kinard was with Monsanto prior to coming to Tulane in 1957 and before that with Lion Oil Company.

His work in industry particularly suited him for instruction in the division of Chemical Engineering Practice at Tulane. One of his significant contributions was the preparation of a prospectus which was instrumental in obtaining the cooperation of the Shell Oil Company in continuing the practice school work in the department when the American Oil Company closed its refinery at Destrehan. Best wishes for his continued success go with him and his family as they move to El Dorado, Arkansas.

The Department of Civil Engineering at Tulane now has a 15-ton traveling space frame gantry crane for use with its outdoor experimental research frame. This facility was badly needed in order to handle the full-scale structural members and units which are investigated on the frame.

The gantry crane is 25 feet high and spans 45 feet across the research frame and the roadway adjacent to the Civil Engineering Building with an underside clearance of 17 feet and a longitudinal travel of 120 feet. The Civil Engineering Department will be able to handle large structural elements such as pilings, girders, floor systems, trusses, columns, bridge members, and such up to 15 tons with a minimum waste of time and money. This facility will greatly increase the usefulness of the frame and encourage additional research activity in the field of structures.

The crane was designed by William J. Mouton, B.S.E. 1953, M.S.C.E. 1958 and was constructed by the Milan Engineering Company of New Orleans. Mr. Mouton’s unique design resulted in savings of over 30% of the cost of a conventional design.

See Your Name in Print!!
Fill in the form below, attach to a post card and mail to:
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NAME
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Year
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I am employed by:

Firm Name

News about job (type of work):______________________________

New about other grads:____________________________________

Suggestions:_____________________________________________

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NEW LABORATORY EQUIPMENT IN MECHANICAL ENGINEERING

A Boeing 502-TB gas turbine has just been installed in the Mechanical Engineering laboratory. It is rated at 175 hp and drives an air compressor which was used in starting aircraft gas turbine engines. The load compressor delivers 1.4 pounds per second of air at 48.5 psia. The turbine operates at 36,000 rpm and has been installed in a cement block, soundproofed test cell with an external control console located under a window in the test cell wall. It will be used in the laboratory for undergraduate instruction in performance testing, energy balances, and such in and graduate projects on compressor and turbine design, combustion chamber design, regenerators, and other heat exchanger studies.

A 100 hp Buda gasoline engine driving a compressor of 315 cfm capacity at 100 psi was purchased from Louisiana Surplus Property agency. A steam driven air compressor also provides 205 cfm of free air at 100 psi. Air storage facilities will handle up to 100 cubic feet at 100 psi.

Also under construction is a blowdown type supersonic wind tunnel. This will be equipped with two sets of nozzle blocks, one set providing Mach 2 with a test area of 2.64 square inches and the other Mach 2.8 with the same test area.

The laboratory also is equipped with a small Amrad Varitunnel with a complete Schlierin optical system. This tunnel provides for variable Mach numbers from 1 to 4 operating from high pressure nitrogen cylinders.

CHEMICAL ENGINEERING RESEARCH GRANT

Dr. M. M. Gilkeson, Associate Professor of Chemical Engineering, was awarded in January a $31,400 grant for chemical engineering research from the National Science Foundation. This is a two-year project involving a study of the effect of micropore structure of solid catalysts upon mass transfer rates. Dr. Gilkeson will attempt to find mathematical relationships which will predict the speed of chemical reactions requiring catalysts which will reduce the present high cost of determining these speeds by experimental testing.

A. J. BRODTMANN

A. J. Brodtmann, who will serve as president of the Society until Homecoming, 1960, was graduated from Tulane in 1936 with a BE in chemical engineering. Now 44, he is employed by the New Orleans Public Service as Assistant General Auditor in charge of property accounting, and is also assisting in preparing for the installation of an electronic data processing system. He has also been teaching cost accounting at night in Tulane's University College for the last 13 years. He served for four years in the U.S. Navy Supply Corps, retiring in the rank of Lieutenant Commander.

CONNIE ANDREWS AWARDED FELLOWSHIP

Mr. Connie Andrews, senior in civil engineering and varsity fullback on Tulane's football team, has been awarded the Ideal Cement Company Fellowship for graduate study in civil engineering for 1960-61. He has maintained a scholastic average about B during his undergraduate years, and at the same time has participated in intercollegiate football, a rather unusual accomplishment.

Mr. Andrews will undertake research on some problem relating to concrete and also graduate course work leading to the Master of Science degree. He has recently been elected to membership in Tau Beta Pi in recognition of his scholarship.

Each Little Bit Counts

A Message From Your President

The following statement is based on an analysis of our operations for the last 5 years.

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The significance of the analysis is obvious.

We distribute our publications to all members of the Society, whether dues are paid or not, with a fixed annual printing and postage expense of $570, leaving only a meager $470 a year for Society projects.

If each of the 3,000 of us would pay the nominal $2 dues each year, our power to accomplish many worthwhile projects for the engineering school would be greatly enhanced. The effectiveness of our organization to do good would be vastly improved.

We earnestly solicit your help!

PROFESSOR IN CHEMICAL ENGINEERING

Dr. Robert Edgar Coleman Weaver joined the faculty of the Department of Chemical Engineering at Tulane as Assistant Professor of Chemical Engineering in January.

Dr. Weaver received his BS and MS degrees in chemical engineering from Tulane in 1953 and 1955, respectively. His academic record was the highest ever achieved in engineering at Tulane. This record consisted of a 3.0 quality point average out of a possible 3.0 for six years of study. After completing his MS degree at Tulane, Dr. Weaver earned his PhD degree in chemical engineering at Princeton University in 1958. His performance at Princeton was truly outstanding. Dr. Weaver's experience consists of two years of part-time teaching at Tulane and one and one-half years as an engineer with the Ethyl Corporation in Baton Rouge. He has one publication and is co-author of another paper which has been accepted for publication.

Dr. Weaver's qualifications and interests are well suited for strengthening the graduate program in the School of Engineering. He replaces Professor J. E. Kinard who resigned from the faculty to enter industry.

Join The Society of Tulane Engineers

For information, send $2.00 and your name and address to the address shown on the post card cutout.
From The Mail Bag

Tulane Engineer to Moscow

Edwin L. Peterson of the TEMPO Technical Staff will represent the United States at the First International Congress on Automatic Control at Moscow from June 25 to July 8. A total of four delegates will comprise the United States delegation.

Peterson, currently leader of the OSS (Optimum Systems Synthesis) Project which is concerned with techniques for solving multi-dimensional non-linear boundary valued problems of a variational nature, will present a paper on optimization of systems with multiple inputs and outputs. Theoretical considerations will include a radio-inertial guidance system as an example.

Leaving Santa Barbara for Moscow on June 22, Peterson will take part in a tour of Western Russia arranged for the Congress delegates beginning on July 8. Following the Russian visit, he will return to the United States via Austria where he will spend time with University of Innsbruck scientists concerning work they have recently completed on non-linear boundary valued problems.

E. L. Peterson holds B.S. and M.S. degrees from Tulane, joined GE Aircraft Products Dept. in 1955, has been active in system analysis synthesis, and evaluation of various weapon systems at APD and since joining TEMPO in 1957.

Tulanian Appointed

E. J. Hagstette, Jr., has been appointed Assistant General Manager of Baroid Division, effective January 1, 1960. In this capacity he is responsible for general supervision and coordination of the activities of the Drilling Mud, Production, and Technical Sales and Operations departments.

E. J. Hagstette, Jr., is a native of Louisiana and a graduate of Tulane University and more recently he completed the Harvard Business School's Advanced Management Program. He joined Baroid in 1946, serving in the Gulf Coast Area and on the Pacific Coast. In 1951, while Manager of Product Procurement, he was granted a two-year leave of absence for a special assignment in the State Department. Upon his return to Baroid he became Administrative Assistant in the Drilling Mud Department, then Staff Assistant and later Assistant to the General Manager.

ANDERSON VISITING PROFESSOR IN MECHANICAL ENGINEERING

Dr. James T. Anderson, Professor of Mechanical Engineering at Michigan State University, joined the faculty of the Mechanical Engineering Department for the spring semester of 1959-60 as Visiting Professor of Mechanical Engineering. He is highly regarded in the field of heat transfer and is currently teaching both undergraduate and graduate courses in this area. He holds the bachelor's and master's degrees from Michigan State University and the PhD from the University of London where he was a student in the Imperial College. His doctoral thesis on "Heat Transfer from Rotating Cylinders" has been published in the proceedings of the Royal Society. He is author of a number of other publications and has consulted with U. S. Army Ordnance Research Department and Babcock and Wilcox Boiler Co. He is currently a consultant to the Jet Engine and the Aircraft Nuclear Propulsion Department of the General Electric Company.

In 1956 he received the Distinguished Teacher Award in the College of Engineering at Michigan State University and in 1958 the All University Distinguished Teacher Award. He is a member of Tau Beta Pi and Sigma Xi. His wife and four children are with him enjoying the sunshine and warm weather of New Orleans in the winter and springtime.

Leadership Award Announced

The recipient of this year's James M. Robert leadership award is Mr. Howard Thompson Smith, Jr., senior Chemical Engineering student from Springhill, La.

Mr. Smith's record is proof of his leadership qualities having been Vice-President of the University Student Body, President of SAE, DK and Greenbackers, head cheerleader, Company Commander of ROTC, S ect. of Seaboard & Blade, Distinguished Military Student, member of Student Council, AICHE, Who's Who and Tulane Hall of Fame.

S.O.T.E. to Honor 1960 Graduates

A luncheon in honor of the 1960 graduates of the Engineering School will be held at the University Center on May 10th at 12:00 noon. Price — $2.00 per Person.

All members desiring to attend please contact Henry Markel, Jr., at: Ex 4545 prior to May 6th.

FUND — Cont. from Page 1
certainly cannot expect them to contribute more generously than we do, although in many instances, donations by outsiders, particularly foundations, are based on the percentage of donors among a university's alumni.

Now as to Engineering's part in all this. We Tulane engineers feel that our school is just about the best in this part of the country. We're proud of our school, and we're proud of the degrees that Tulane conferred on us, and we want it to stay that way. We want our children and our friends' and neighbors' children to go to Tulane and to be proud to go to Tulane. But the increasing financial demands on the University cannot be met with present sources of income. To maintain and to raise the standards of the Tulane brand of engineering education, it is imperative that Engineering Alumni giving be drastically increased this year.

At the close of the Thirteenth Annual Alumni Fund on June 30, 1959, 35% of the Engineering Alumni had contributed. For professional men, this is not good. Let's compare: For Architecture, 53% donated; for Medicine, 45%, and for Law, 53%. There is no good reason why Engineering should lag, except that perhaps there is some truth to the statement sometimes heard that engineers lack professional pride, imagination and Initiative. We do not believe that this is true. If you go along with us that Engineering can and should hold its head up among the other professions, do not wait to be solicited. Send your check, large or small, immediately to the "Tulane Alumni Association", 6319 Willow Street, New Orleans, La.

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