Report from the Dean

By LEE H. JOHNSON

The enrollment of the school of Engineering, in keeping with the predicted increase in high school graduates, jumped from last year to this year by 63 students, the fall enrollment being 493 at the close of registration. Of this number, 239 were classified as freshmen, 122 as sophomores, 81 as juniors and 51 as seniors. The present group of freshman engineers is the largest in the history of the School with the exception of one semester, the Spring of 1946, when the total was 309.

There are also ten graduate students who are working for the Master of Science degree in some branch of engineering this year. One of these students, Robert Weaver, holds a National Science Foundation fellowship, and another, Robert Planchet, holds a Dow Chemical Company fellowship, just established at Tulane this year. One of the seniors in electrical engineering, Donald Boensel, holds a General Electric Company scholarship. This is the second year in succession in which a senior electrical engineer has held one of the G.E. scholarships.

The faculty this year includes 23 full-time members, five part-time instructors, and three lecturers. Over 60% of the full-time faculty have been active in the past year in conducting sponsored research, publishing articles or manuals, conducting independent research, or in serving as consultants for special problems. Five of the faculty have served the School of Engineering faithfully for more than a score of years. Professors (Continued on Page 2)

James M. Robert to be Guest Speaker at Annual Meeting

The Annual Meeting of the Society of Tulane Engineers will have as its principal speaker Dean Emeritus James M. Robert. Dean Robert is known intimately by all Tulane Engineering graduates from 1906 to 1950, having been associated with the university over that span of years.

His career began upon his graduation in Mechanical and Electrical Engineering from Tulane University in 1906 when he was appointed Instructor in Mechanical Engineering. He successively progressed as Assistant Professor of Experimental Engineering, Associate Professor of Machine Design, Professor of Mechanical Engineering, Acting Dean of the College of Engineering, and in 1936, upon retirement of the late Dean Douglas S. Anderson, he became Dean of the College of Engineering.

Dean Robert has had considerable experience as a consulting and testing engineer, and has been active in technical societies and civic work. He has served as Chairman of the New Orleans Section ASME, President of the Louisiana Engineering Society, and Manager of ASME (National Chapter). He has served as Vice-chairman and Chairman of the Southeastern Section of the American Society for Engineering Education. He belongs to Tau Beta Pi, Sigma Phi Delta, Omicron Delta Kappa, and Pi Kappa Alpha fraternities. Since his retirement in 1950, he has made his home in Waveland, Mississippi.

Dean Jimmy Robert is loved and (See ROBERT, Page 2)
THE TULANE ENGINEER
Published by the Society of Tulane Engineers whose officers are:
President J. Robert Rombach
1st Vice Pres. Bernard Grehan
2nd Vice Pres. ... Bres Eustis
Secretary ... J. J. Rouquette
Asst. Secretary ... Lyman Ellzey
Treasurer ... John Martinez
Asst. Treasurer ... Chester Peyronnin

EDITOR ... Lyman Ellzey
ASST. EDITOR ... J. J. Rouquette
NOVEMBER, 1954

Report From Dean
(Continued from Page 1)
sor Frederick H. Fox is now in his 34th year as a member of the faculty, Professor A. Lee Dunlap in his 31st year, Professor C. W. Ricker in his 27th year, Professor Arthur M. Hill in his 26th year, and Professor John K. Mayer in his 23rd year.

Three of our engineering alumni who are in professional practice are assisting the School of Engineering as lecturers this year. They are James P. Ewin (C.E., '42) in Civil Engineering and Gene E. Sullivan (M.E., '45) and Hugh A. Liles (M.E., '48), both in Mechanical Engineering.

The Engineering Research Institute was established as a division of the School of Engineering last year and an Honors Program for exceptional students has been inaugurated this year. Both of these developments are described at greater length elsewhere in "The Tulane Engineer."

The loyal support of many alumni is responsible for many activities in the School during the past few years. Although these alumni are too numerous to mention by name in this report, each should know that we of the faculty are deeply grateful for his devotion to his Alma Mater. Each should know that the part that he has played in the development of the School is, indeed, significant and far-reaching in its effect.

Robert
(Continued from Page 1)
respected by all of his former students, and his easy-going and sincere style of speaking is most enjoyable. His talk will certainly highlight this Annual 1954 Meeting of the Society of Tulane Engineers.

Nominating Comm.
Reports
The nominating committee for the Society of Tulane Engineers submits the following slate of officers for the 1954-55 term.

President ... Bres Eustis
1st Vice Pres. Bernard Grehan
2nd Vice Pres. ... Lyman Ellzey
Secretary ... J. J. Rouquette
Asst. Sec'y ... Tom A. Fromherz
Treasurer ... Chester Peyronnin
Asst. Treasurer ... Robert H. Boh

Contingent upon changes in the "Articles of Association of the Society of Tulane Engineers" which are to be voted on at the general meeting of November 6, the following alumni are nominated for additional offices.

Publication Chairman ... Pat McCloskey
Executive Committee Member at Large ... Murdock Snelling
Executive Committee Member at Large ... Claiborne Perrilliat

Honors Program Started
An "Honors Program" has been started for undergraduates in the Engineering School. The program is directed toward the development of the outstanding student and is designed to provide the encouragement and opportunity for recognition of performance which is beyond that normally expected of the typical student.

The program should meet the needs of the student who has an unusually wide range of interests in the various branches of engineering, science and liberal arts. The program also should meet the requirements of the student who has a deep seated interest in some one branch of education outside his field of specialization.

The program is open to sophomore and higher level engineering students who have sufficient maturity and ability, as judged by the administrators committee, and who can maintain a specified grade average, both inside and outside their fields of specialization.

The engineering student who meets the requirements of the "Honors Program" will graduate with the degree of Bachelor of Science in Engineering with Honors in one particular department of the University.

Report on Finances
for 53-54 Period

Receipts:
Carried forward from 1952-53 ... $373.31
Dues for 1953-54 ... 168.00
Dues for 1954-55 ... 11.00
Total ... 552.31

Disbursements:
Engineering Review Prize ... 50.00
Magazine (Spring Edition) ... 187.90
Postage and Mailings ... 86.09
Miscellaneous ... 3.57
Total ... 327.56
Cash on Hand, Oct. 31, 1954 ... $224.75

Review of S T E
Activities for 54
The major activities of the Society of Tulane Engineers for the past year consisted of the following:
1. Published news about the College of Engineering, its faculty and its alumni by means of "The Tulane Engineer." This issue is the second published this year and it is hoped that it will fill the need for keeping the alumni interested and acquainted with the problems and progress of the Engineering School.
2. Provided for the loan of special equipment for a Tulane Engineering Research Institute project conducted by Dr. Taylor and Dr. Bailey of the Chemical Engineering Department. This project is still in progress and consists of experiments in fluid flow being conducted for the Oak Ridge National Laboratories. The loan of the necessary equipment was made possible by Engineering alumni.
3. Studied means of improving the curriculum of the various departments of the Engineering School and submitted a detailed report to Dean Lee H. Johnson.
4. Cooperated with the Engineering School in holding the annual Tulane Engineering Review by donating a cash prize to the student demonstration judged most outstanding. The prize was won by students R. A. Morgan and Gene Tyre in the Department of Electrical Engineering for their Thymotrol demonstration.
Advisory Comm. Makes Report
This Committee has been active during the past year studying some of the Engineering School's problems as regards curricula. Dean Johnson suggested this subject to the Society thinking that some of the ideas and suggestions of the Alumni might prove of benefit to the University. President Rombach turned these deliberations over to the Advisory Committee.

Six formal meetings and numerous informal discussions with alumni and faculty have been held throughout the year. These have resulted in a much broader understanding on the part of the Committee of the problems on hand, as well as an opportunity for many interested parties to express their ideas regarding the improvement and advancement of The Tulane Engineering School. A report containing these ideas and opinions has been formulated and submitted to Dean Johnson.

The subject is still open for consideration for there is much ground yet to be covered. All Engineering alumni are invited and urged to express any opinions, ideas, or criticisms they might have to the Committee. Such collective ideas may very well prove of tangible benefit to the school.

The Committee which was appointed to serve during the past year was comprised as follows:


Change of Dues to be voted on
The organization has grown in its membership and activities in the past few years and consequently its budget has gone up. In printing and mailing out this Publication two or three times a year, the Society has been hard pressed for funds. The Executive Committee has therefore decided to recommend to the general membership that the dues shall be raised to $2.00 for the coming year.

Society Aids Research
One project of the Engineering Research Institute has received considerable assistance from the Society. Through the Institute a contract was negotiated with Carbide and Carbon Chemicals Company for a research investigation in cooperation with work being performed at the Oak Ridge National Laboratory. The research involved studies of the "slip" velocity of vapor in vapor-liquid mixtures.

The Society formed a committee which undertook to provide necessary equipment on a temporary basis to supplement equipment already available at the University for conducting the study. Through the good work of this committee, the equipment was obtained and is being used in the final stages of the project. The School of Engineering joins the Society of Tulane Engineers in expressing its gratitude to New Orleans Public Service Inc., Southern Scrap Metal Company, and Industrial Electric Company for assistance in providing equipment.

The Engineering Research Institute acknowledges its indebtedness to the Society and wishes all members to know how valuable this assistance rendered by the alumni has been to the successful undertaking of this research investigation.

Exec. Comm. recommends Changes in By-Laws
At a recent meeting, the Executive Committee voted to recommend to the general membership at the annual meeting the following changes in the Articles of Association.

1. An additional officer shall be elected to the Executive Committee. This officer shall serve as chairman of the Publications Committee and shall appoint his own Assistant Chairman.

2. Two additional members of the Executive Committee representing the general membership shall be elected.

The present Executive Committee is comprised of the seven officers of the society plus the immediate past president and the Dean of the College of Engineering. It is felt desirable to have additional representation of the membership on the Executive Committee.

Engineering and Medical Schools Collaborate
Engineering and medicine are working together at Tulane. The application of engineering principles and techniques are essential to the development of delicate medical instruments and devices. Engineering faculty members are working in conjunction with Medical faculty members on various projects.

Professor James Cronvich, E.E. and Frank Macdonald, C.E. are members of the faculty of both schools. Professor Cronvich is a member of a medical research team applying electronic principles to medical devices. Professor Macdonald's specialty is public health and sanitation, a field which embraces both engineering and medicine.

Professors Chester A. Peyromne and John L. Martinez have been collaborating with Dr. John Dent, also of Tulane, on several devices during the past year. One, a machine for creating a fine mist under controlled pressure, is used for "ungluing" and gradually expanding lung sags of infants afflicted with atelectasis. This apparatus has been used with some success and is being tested further.

The same two men are now at work on a type of blood pump which would expedite the blood-changing technique used in treatment of a condition in the new born caused by an Rh factor difficulty.

Group Studies Battlefield Illumination
Investigations concerning artificial illumination of battlefields for the Army Research and Development Laboratories was completed recently by Tulane engineering faculty member Jack Sperry. Jack worked in conjunction with members of the faculties of the School of Medicine, and the Department of Psychology.

The project, entitled "Artificial Moonlight," consisted of measurements of light scattered by atmospheric particles from high-intensity searchlight beams and investigations of visual acuity of personnel using this type of illumination under simulated battlefield conditions. In order to meet these conditions the experiments were performed at the Bonnet Carré Spillway at night.