S.T.E. GIFTS

Since 1956, the Society has given the School of Engineering, each year, a check to be placed in an unrestricted fund for unusual needs that cannot be met by the regular budget of the School. The annual amount has varied from $100 to $500, depending upon the amount of surplus funds available. The total amount given in the past nine years is $2,800.

The uses to which this money has been put have been many and varied. One early use was to provide the family of former Dean James H. Robert photographic copies of his portrait, which was presented to the School by the Society in 1957. The funds have also been used to take photographs of senior award winners that were sent to the parents of each student with a letter of congratulations from the dean; to provide color slides for a lecture on the new Engineering Curriculum; to print poster announcements of the programs in the School of Engineering that have been sent to over 3000 high schools each year; and to install a number of large bulletin boards for student

(Continued on Page 3)

ENGINEERING AGENDA,
HOMECOMING 1965

Saturday, October 30, 1965
9:00 A.M. Registration for Annual Meeting, Society of Tulane Engineers, Room 205, Mechanical Engineering Building.
9:15 A.M. Meeting to be called to order by Mr. Roy E. Johnson, CE '43, president STE.
10:30 A.M. Annual Meeting, Tulane Alumni Association, University Center, Speaker Edwin Vendrard, E '24, of New York, managing director of Edison Electric Institute.
2:00 P.M. Football Game—Tulane vs. Vanderbilt University.
5:00 P.M. Open House, Alumni House.

Plaque for Robert Award

Students and friends of the late Dean James Marshall Robert will be glad to learn that their contributions to provide a medal for the award in his memory have also provided a plaque that bears replicas of each side of the medal, as well as a number of nameplates on which the names of the award winners will be engraved through the years. The plaque now hangs in the hallway of the Mechanical Engineering Building near the dean's office. It may be seen at any time. Alumni who come to the annual meeting of the Society on Saturday, October 30 are urged to inspect it.

PROFESSOR SOGIN TO FRANCE

Dr. Harold H. Sogin, professor of mechanical engineering, is being sponsored by the Tulane University Council on Research and is being sent to France to learn and to observe.

Dr. Sogin will attend l'Institut de Mécanique Statistique de la Turbulence, Faculté des Sciences, Université de Marseille. He plans to perform research on the heat transfer to a turbulent boundary layer under an adverse pressure gradient.

Dr. and Mrs. Sogin sailed from Norfolk, Virginia, on 12 August aboard MS "LINZERTOR" bound for Bremerhaven.
THE TULANE ENGINEER

Published by the Society of Tulane Engineers, whose officers are:

President……………………………Roy E. Johnson
1st Vice Pres………………………Nestor D. Knoopfler
2nd Vice Pres………………………De Witt Morris
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OCTOBER, 1965

THE SOCIETY OF TULANE ENGINEERS

Dues $3.00 per year

The aims and purposes of this organization are as follows:

1. To keep members of this organization informed of the progress, activities and needs of the School of Engineering.

2. To provide closer contact between former students and faculty by providing information about their whereabouts and activities.

3. To provide employment placement service for prospective graduates and members.

4. To provide a means of raising funds for specific equipment and services.

5. To provide an advisory group whose purposes is to recommend improvements in curriculum, instruction and classroom procedure.

Outstanding Students Honored At Annual Senior Dinner And Awards Program

The Society of Tulane Engineers hosted the annual senior dinner held last May 6 in the University Center. Principal speaker for the meeting was Dr. Joseph C. Morris, vice-president of Tulane and professor of physics in the College of Arts and Sciences.

Dean Lee H. Johnson presented awards to 17 students for outstanding scholarship, leadership and student activities.

The most outstanding awards record was achieved by Brian Thomas Barcelo of New Orleans, who was presented five different awards. They were:

The Leon H. Scherck Memorial award for excellence in engineering scholarship.

The Louisiana Engineering Society award for the highest scholastic average in the School of Engineering.

The American Society of Mechanical Engineers award for activity in the student branch.

The James Marshall Robert award, established in 1965 in honor of the late dean of the Tulane School of Engineering, for scholarship, leadership and collegiate activities.

The Hamilton Watch Company award for interest in the humanities and social sciences.

Two other students received two awards. They were Fred Edward Seale III of Houston and Jack Robert Goldberg of New Orleans.

Seale received the American Institute of Chemical Engineers award, New Orleans section, for outstanding scholarship and leadership in Chemical Engineering by a senior and the American Institute of Chemists award, Louisiana Section, for outstanding scholarship, leadership, character and ability in Chemistry or Chemical Engineering.

Goldberg received the Institute of Electrical and Electronic Engineers award for activity in the student branch of the Institute and the C. W. Ricker award for the senior with the highest scholastic average in the department of electrical engineering.

Frederick William Hedges of Indianapolis, Indiana, received the American Society of Civil Engineers award, Louisiana section, for outstanding scholarship in civil engineering studies.

John Wesley Shaver, Henderson, Kentucky, won the Frederick H. Fox achievement award for outstanding participation in the Tulane student chapter of the American Society of Civil Engineers.

Noah Halbrook Long Jr. of Williston, Florida, received the Frederick H. Fox activities award for outstanding participation in athletic and other extra-curricular activities.

Robert Raines Bullard of New Orleans was awarded the William F. Temkin memorial award for outstanding scholarship and extra-curricular activities.

Other awards presented were: The American Institute of Chemical Engineers award, National Society, for outstanding scholarship in chemical engineering studies by a junior to Michael David Katzoff, San Bernardino, California; the Institute of Electrical and Electronic Engineers award for the best student paper to Charles Alexander Dietz of New Orleans; the William Benjamin Gregory medal, Class of 1918 award, for outstanding scholarship in mechanical engineering to William Claiborne Hightower of New Orleans; and the Louisiana Highway Engineer Association award for excellence in highway engineering to Jack Hershel Rau of New Orleans.

Society of Tulane Engineers

Financial Statement

October 7, 1964, Through October 15, 1965

REGULAR OPERATING FUND

Receipts

Cash on Hand October 7, 1964 $ 681.26
Dues Collected:
Years Prior to 1965 78.00
1965 2,023.00
1966-69 15.00
Donations 29.00
Interest on Savings 18.77
Student Award Banquet (Cash Collected) 25.00
Total Receipts $2,854.03

Disbursements

Engineers Club Participation Dues $ 12.00
American Printing Co. 421.75
Tulane Alumni Association 215.45
Checks Returned 6.00
Bank Charges 11.84
Engineering School Gift 306.00
Tulane University (Cost of Student Banquet) 276.00
Total Disbursements $1,237.04

Net Cash on Hand October 15, 1965 $1,616.99

JAMES M. ROBERT LEADERSHIP AWARD FUND

Balance on Hand October 7, 1964 $1,269.78
Interest to June, 1965 57.71
Balance on Hand October 15, 1965 $1,327.49

Henry L. Madden, Treasurer
CHEMICAL ENGINEERING

Following is the second of a series of articles on the departments of the School of Engineering. Articles on the Civil and Electrical Departments will follow in successive issues.

The Chemical Engineering Department offers courses leading to the Bachelor of Science, Master of Science, and Doctor of Philosophy degrees. There are presently about 50 students in the bachelors program, 10 in the masters program and 21 in the doctoral program.

The programs of study feature a systems approach making maximum utilization of advanced mathematical methods and large, high-speed computers. The recent addition of two analog computers in the department has greatly expedited the implementation of sophisticated programs in design, control, kinetics, and general process simulation.

With the greatly expanded graduate program and faculty, the research programs of the department have mushroomed during the past two or three years. Due to the system approach, combined with high-speed computers and advanced mathematical methods, the research projects range from the classical to the exotic. Typical projects include:

1. Systems studies of physiological phenomena; e.g., transmission of signals through nerves, kinetics of synaptic signal transmission, thermodynamics of blood chemistry, diffusion through membranes, etc.

2. Numerical methodology in handling complex mathematical descriptions of physiochemical phenomena; e.g., optimal rocket firing and trajectories to place maximum payload on the moon, moving boundary value problems as applied to the time rate of change of complex contours of residual oxygen in the tanks of rockets, compressible flow problems, dynamics of rivers and flood control, etc.

3. Systems topology studies as applied to plasma jet chemistry, and rocket fuel combustion.


5. Direct digital control and optimization of processes.

6. Diffusion in catalytic structures and in fuel cell electrodes.

The faculty currently consists of the following:

Professors Raymond V. Bailey, Ph.D., L.S.U. (Department Head); Francis M. Taylor, Ph.D., Ohio State

BETSY AND STE BOTH OUTDID THEMSELVES IN 1965

As everyone probably knows, and most will never forget, Hurricane Betsy roared into Louisiana in 1965 blasting everything and everyone and causing most bodies of water to overflow their banks.

Like Betsy, the Society of Tulane Engineers went over the top in 1965, and this was the greatest year in the Society's history. Your overwhelming response enables us to make a contribution to the Engineering School which will double that given in any previous year!

The reason for this great success was the fact that the members of the Society "came alive in '65," and we had greater participation than ever before in the history of this organization. This cooperation was very gratifying to your Board of Directors, and we thank all of the engineering alumni for their support.

For the year 1966, dues will be established on a calendar basis rather than a fiscal basis as in the past. In line with this change and in an effort to utilize our meeting time to the ultimate there will be no dues collected at the annual meeting this year. A request for 1966 dues will be mailed in January.

Even though this year has been a banner year for the Society, we are still far short of 100% participation of the alumni and sincerely urge all who have not done so to fill out the blank below and mail it today with their check for $3.00.

Now that we are on this upward swing, let's all work together to make this a 100% participation organization which will be the pride of all alumni groups and will render increasing service to our Engineering School. So let's start working now and not stop with the payment of our dues; contact your former classmates and urge them to join our group. Roy E. Johnson, President

S.T.E. GIFTS

(Continued from Page 1)

use, especially at election times, to avoid the former defamation of walls by attachment of student election posters.

Another use of the fund has been to print for the engineering student body booklets on the Engineering School Honor Code and Constitution. The fund has provided emergency expenses on several occasions, such as: one month's summer salary for two graduate students, costs involved in starting a new course in aerospace engineering in 1962, funds for student travel to a national engineering student conference, cost of removal of a steel pole and guy wires on the main campus, formerly used for tracking satellites (removed to provide a range for microwave antenna research), and for miscellaneous expenses in securing research grants and for special guests at the annual S.T.E. dinners for the seniors. It was also used to provide a new transistorized dictaphone for the Dean's Office, at a time when the old unit broke down and budget funds were unavailable to replace it.

In summary, this fund has been a "life-saver" many times.

COLONEL WETZEL JOINS TULANE'S STAFF

Colonel Albert J. Wetzel (Engr. 1939) has retired from active duty with the U.S. Air Force to become Director of Special Programs in the office of the Vice-President for Institutional Development at Tulane. In this capacity he will have responsibility for relations with foundations, industry, government and business.

He was engaged in similar work just prior to his retirement as a member of the technical staff of the Director of Defense Research in Engineering for the Department of Defense, where he was involved in the

THE SOCIETY OF TULANE ENGINEERS

c/o Engineering Dean's Office
Tulane University
New Orleans, La. 70118

NAME

ADDRESS

BRANCH OF ENGINEERING

YEAR

EMPLOYED BY

BUSINESS ADDRESS

1965 Dues, $3.00

(Continued on p. 4)
Colonel Wetzel, a native of New Orleans, received the Bachelor of Science degree in Electrical and Mechanical Engineering from Tulane in 1939. Later he was awarded the Master's degree in Aeronautical Engineering from Johns Hopkins University. He joined the Corps of Engineers in January 1941 and transferred to the Army Air Corps, earning his wings in February 1943. During World War II he served with the 88th Bomb Wing, 344th Bomb Group, and 70th Fighter Wing in the European theater. He has been awarded the Commendation Medal with three Oak Leaf Clusters. After the war he was assigned to the Air Force Missile Test Center in New Mexico and was later transferred to the Pentagon and placed in charge of atomic warheads for guided missiles.

Chemical Eng.

(Continued from Page 3)

University; Associate Professors Charles H. Barron, D.Sc., University of Virginia; Samuel L. Sullivan, Ph.D., Texas A&M; Dale U. von Rosenburg, Sc.D., M.I.T.; Robert E. C. Weaver, Ph.D., Princeton; Assistant Professors, Robert P. Chambers, Ph.D., University of California; Victor J. Law, Ph.D., Tulane University; Instructor, Daniel B. Killeen, M.S., Tulane University (Associate Director of the Computer Center).

From the Mail Bag

T. S. Farmer has been appointed manager of the Baytown Research and Development Division of the Esso Research and Engineering Company.

Mr. Farmer received a B.S. degree in chemical engineering from Tulane University in 1952 and a M.S. degree from Princeton in 1953. He received Tulane University’s Harold L. Levey Alumni Award in 1962 for outstanding professional achievement.

Edward W. Garland, EE ’64, recently won the Orville Wright Achievement Award given to the most outstanding jet pilot graduate among the Air Force pilot training bases. He is also the former Louisiana State Junior Champion for sky diving accuracy and has his sights set on becoming an astronaut.

New Faculty For 1965-66

Dr. DeWitt C. Hamilton, Jr., Professor of Mechanical Engineering, received his Bachelor of Science degree in both Mechanical Engineering and Petroleum Engineering from the University of Oklahoma, his Master of Science from the University of California at Berkeley, and his Ph.D. from Purdue. He served in the U.S. Air Force during World War II as a test pilot and development engineer. He taught at Purdue for four years before going to the Oak Ridge National Laboratory as principal engineer.

Dr. Edward P. Williamson, Assistant Professor of Electrical Engineering, joined the Tulane faculty this past spring, coming from the University of Florida where he recently received his Ph.D. While there, he served as a research assistant and as a lecturer, specializing in statistical communication theory and circuit theory. Prior to this, he was with the Bendix Radio Corporation as a design engineer, working on the design and development of navigational electronic equipment.

Dr. Robert P. Chambers, Assistant Professor of Chemical Engineering, comes to Tulane from Stanford University, where he has been doing post-doctoral work for six months, after receiving his Ph.D. degree from the University of California at Berkeley. Prior to receiving his doctorate, he worked for the California Research Corporation as a research engineer, particularly on the kinetics of the “isomax” process, and as a design engineer for the Standard Oil Co. of California. He will add specialized knowledge in reaction kinetics and catalysis to the Chemical Engineering Department.

Dr. Hans J. Gober, Assistant Professor of Electrical Engineering, joins the Tulane faculty this fall. Dr. Gober, a native of Berlin, received both his graduate and undergraduate degrees at the Technical University of Berlin, and served on its staff for five years. For the past year he has been working on research with the DVL Oberpaffen, the German equivalent of NASA. In addition to his teaching duties, much of Dr. Gober’s time at Tulane will be devoted to research problems in the field of acoustics.

Officers to be Elected

Election of officers for the 1966 term will be held at the Society’s annual meeting on Saturday, October 30, 1965.

The following slate of officers is proposed by the Nominating Committee:

President—Nestor D. Knoepfler, ChE ’40.
1st Vice President—DeWitt L. Morris, ME-EE ’37.
2nd Vice President—George D. Moate, ME ’51.
Secretary—John E. Coles, EE ’56.
Asst. Secretary—James A. Evans, ME ’43.
Treasurer—Frank S. Foster, Jr., CE ’50.
Asst. Treasurer—Clarence E. J. Kelly, Jr., CE ’51.
Director & Publication Chairman—Jay W. Oppenheim, ME-EE ’56.

Society of Tulane Engineers
Tulane University Alumni House
6318 Willow St.
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