

# Societies

## Tau Omega

Each year since its organization in 1927 Tau Omega, honorary aeronautics fraternity, has increased its membership and its field of activity. This year the fraternity has increased its active membership to seventy-three. Activities have included the construction of a wind tunnel, construction of a glider, establishment of evening navigation and ground school classes, the sending of two delegates to the National Airport Convention at Tulsa, co-operative work with highschools offering aviation courses, entertainment of several aviators stopping in Norman, and assistance to the aviation division of the Oklahoma City chamber of commerce in plans for the dedication of the new municipal airport.

Work involved in the construction of the wind tunnel was directed by Joseph Liston, assistant professor of mechanical engineering, and A. D. Oliver, graduate student, with assistance of other Tau Omega members.

The glider division, headed by Jim Thompson, has been busy with a strenuous program. A glider has been built and is being used by interested students in learning how to fly. The glider division is open to all students and instruction is being given by Tau Omega members. Early this spring a glider meet will be held and gliders from Oklahoma City, Shawnee, and other nearby cities will compete for a Tau Omega trophy. Close contact has been maintained with glider clubs at Stillwater and in Oklahoma City.

Considerable material has been collected and reviewed on the cost of operation of flying clubs with the hope of being able to buy a plane and obtain instruction as reasonable as possible. Roy O. Hunt is co-operating with the fraternity and it is believed that in the very near future definite arrangements can be made toward that end.

The evening classes in navigation have been headed by Albert C. Duke, transport pilot and army flier, and have proved to be very popular and interesting.

H. C. Martin, chairman of the aviation division of the Oklahoma City chamber of commerce, is an honorary member who has attended several of the meetings and has contributed a great deal to the activity of the organization.

Major H. J. Malony, commandant of the R. O. T. C., and honorary member of Tau Omega, has been very helpful in obtaining interesting speakers for the meetings. He has co-operated with the fraternity in several ways and has served in an advisory capacity from time to time.

Two student members have received appointments as cadets in the United States air service at Randolph field, Texas. Two others have passed their physical examination and are on the waiting list for appointments.

Alumni members are becoming more prominent in aviation circles. James A. Haizlip, first president of Tau Omega, is with the Shell Petroleum company, Elgin Shaw with the Goodyear Zeppelin Corporation, R. V. Carleton with Curtiss-Wright, W. A. Woods with the Bell Laboratories, Roy O. Hunt, stunt pilot extraordinary, is manager of the Norman Flying Service, D. C. Johnston is an aeronautical engineer in Oklahoma City and J. Court Hayes is with the Regan Flying Service in Shawnee. Many other members are working in the aviation industry and are making good.

Officers of Tau Omega this year are: president, Cecil Armstrong, vice-president, Frank T. McCoy, secretary-treasurer, Robert and Thomas Mayrath. Faculty sponsors are: Professor J. C. Davis, Mr Joseph Liston and Lieutenant Ivan D. Yeaton.

CECIL W. ARMSTRONG, '32.

## ASCE

The American Society of Civil Engineers is the first of the four founder societies. It was organized in 1857 for bringing together and disseminating professional data among civil engineers.

The Stadia club of the University of Oklahoma was organized in the fall of 1915 and affiliated with the national organization of American Society of Civil Engineers in 1923. The purpose of the Stadia club is to acquaint the embryo civils with the work of professional engineers by bringing in outside speakers and building model exhibits at the St. Pat open house.

The exhibit of 1932 consists of a complete hydro-engineering problem comprising: storage, city water supply, irrigation, and confinement. Also railway and highway structures will be shown. A display of civil engineering

instruments and road material test completes the exhibit.

Each year the Oklahoma section of the American Society of Civil Engineers awards a junior membership to the most outstanding graduating civil engineer. Mr J. L. Forbis, Oakhurst, received the award for 1932.

## Sigma Gamma Epsilon

Sigma Gamma Epsilon is a national professional college organization for students of the science of geology, mining, metallurgy and ceramics. The local chapter, Gamma, was granted a charter February 16, 1916. It was the third chapter admitted to the national organization, which at the present time comprises twenty-five chapters in the leading geology schools from coast to coast in the United States.

The fraternity has as its objects the scholastic, scientific and social advancement of its members, also the stimulation of good fellowship among the students of geology and allied subjects. Many students and alumni geological and petroleum engineers are members of Sigma Gamma Epsilon.

Dr Charles E. Decker, professor of paleontology in the local school of geology, is now serving his fourth two-year term as national president. For the six years prior to his election to this office, he was national secretary-treasurer. Doctor Decker has been closely associated with Gamma chapter since its founding.

Sigma Gamma Epsilon has membership in the national professional interfraternity conference.

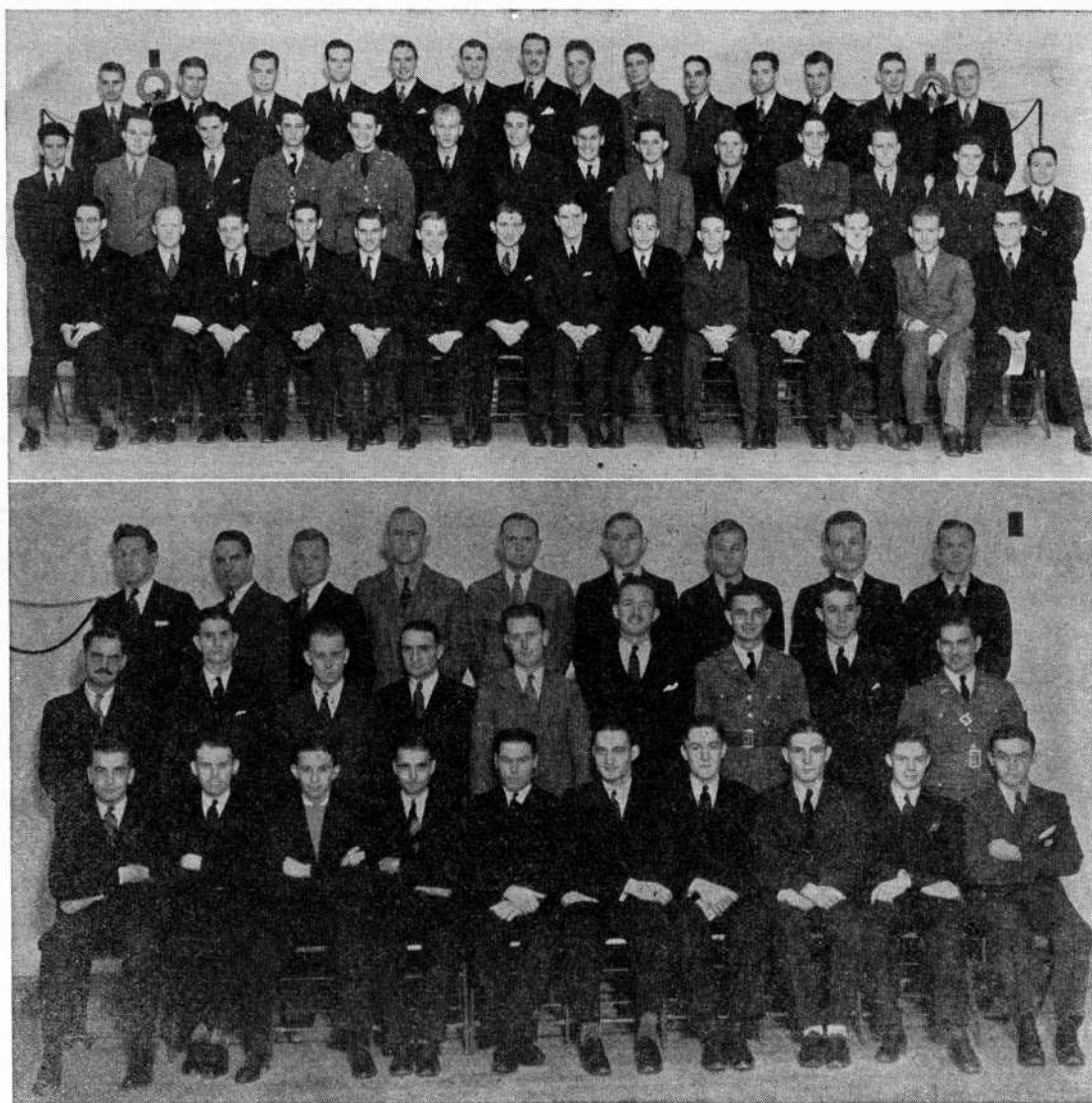
Membership in the organization indicates that a student is in the upper portion of his class scholastically since the equivalent of a B-minus average is required in all subjects for the two semesters preceding pledging. Junior standing and at least fourteen credit hours in courses in geology and allied subjects is necessary for eligibility to active membership.

The present officers of the local chapter are: C. L. Cooksey, president, G. D. Gibson, vice-president, B. J. Doud, secretary-treasurer, and G. C. McGhee corresponding secretary and editor. R. V. Hollingsworth, a graduate student in geology, is the delegate to the national convention which is being held at State College, Pennsylvania this spring. Dr W. H. Twenhofel, the first national president, is to take part on the program there.

## Tau Beta Pi

Tau Beta Pi is the second oldest honorary engineering fraternity. It was founded at Lehigh university in 1885.

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## Honorary

The membership of Sigma Tau (in the upper photograph) follows: Bottom row, left to right—Abernathy, Lynch, Gillespie, Johnson, Bilyeu, «Bus» Moore, Ratliff, Doud, Schaefer, Porter, Bollinger, Moore, Mackey, Hammond; middle row, left to right—Stine, Ross, Webber, Will, Newton, Ittner, Forbis, Ludwick, Olivey, Prof. F. G. Tappan, Barlow, McClung, Bartley, Kanouse; top row, left to right—A. Bilyeu, Barnett, Cotton, Sullivan, Lambdin, Minter, Feemster, McMullin, Ragsdale, Callahan, Cullison, Glasgow, R. Lisk, Stewart

The membership of Tau Beta Pi follows: Bottom row, left to right—Hammond, Armstrong, Couch, A. Bilyeu, Miller, Abernathy, Barlow, R. Lisk, Bartley, Robison; middle row, left to right—Prof. James C. Davis, Doud, McClung, Mr Frank C. Morris, Prof. J. Ray Matlock, Feemster, Will, Forbis, G. Bilyeu; top row, left to right—Ludwick, Callahan, Stewart, Wiler, Ross, Klein, Schaefer, Pelton, Moore

Dr Cecil T. Langford, '18 sc., M.S. '20, professor of chemical engineering, was formerly head of the chemical research department of the Marland Oil Company



TRUBY

ministration building, has an interior finish of lovely carved oak. It is a great thing that the young people of the state can work in such an atmosphere.

The observance of Washington's birthday was characteristic of the leadership of the university under the inspirational direction of President W. B. Bizzell. It was made a notable patriotic day. Outside speakers were brought in, including such distinguished scholars as heads of the American history department of Rice Institute, Houston, and the University of Chicago. The influence for good citizenship of such occasions is evident.

A state is fortunate when its human resources can be enriched year by year by the graduates of the great educational institutions which the people have established.



## THE CHEMICAL ENGINEER

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the speed of any reaction is accelerated by raising the temperature of the reacting substances. We find, therefore, that many processes developed in the laboratory, where the cost of heat energy is of no consequence can not possibly be operated commercially because of large and expensive heat requirements. Processes development, which is adapting laboratory experiments to plant practice, calls for a different kind of training than that needed for the laboratory research. It is decidedly the field for the chemical engineer.

The great assets of this country, its fertile soil, abundant timber, coal, iron ore and oil deposits are being seriously depleted. We have used the cream of our resources. If it were not for the scientist and engineer, we would, as a race, be facing the prospect of a more laborious life and lower standards of living. If however, our problems are

attacked, scientifically and energetically, utilizing modern methods of research, our people may not only maintain their present standards of living and leisure, but also enjoy a more healthful and pleasant life as the result of new discoveries in whose development the chemical engineer will have played an important part.

### «Doc» Langford

Ask any chemical engineer concerning the faculty of the Chemical Engineering school and the chances are he'll start out at once talking about "Doc" Langford, '18 sc., M. S. '20. If a chemical engineer has a problem of any sort, regardless of whether it concerns water analysis and treatment, oil refining, pipeline flow, rayon manufacture or the shifting of an equilibrium constant with an increase in temperature, it's a safe bet that he'll soon find his way to Dr Cecil T. Langford's office where his problem will be solved. That's why the chemical engineers believe what he says, because he demonstrates his practicability and knowledge in a way that is clear to them.

Doctor Langford received his B. S. in 1918, and his M. S. in 1920 from the University of Oklahoma. After he had received his B. S. degree he was employed for a time with Dupont Chemical Company. He received his Ph. D. from the University of California in 1926. Returning to Oklahoma he was employed as research chemist and head of the chemical research department for the Marland Oil Company at Ponca City; subsequently he became director of the entire research department for Marland and retained this position until the fall of 1929 when he returned to accept the position of professor of chemical engineering at the university.

While attending the university Doctor Langford was elected to Phi Beta Kappa and Sigma Xi and he is a member of Alpha Chi Sigma, professional chemical fraternity.

The chemical engineers swear by what Doctor Langford says, and with his professional and academic training, he is indeed a vital and important part in the training of the chemical engineers of the University of Oklahoma.

FORREST E. LOVE



## SOCIETIES

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There are now over sixty one chapters at the leading engineering schools of America which have initiated more than eighteen thousand members. In the spring of 1926 the petition of Tau Pi, a local honorary engineering fraternity, was accepted and Tau Beta became a coveted honor on the campus.

The first and primary qualification for membership is scholarship, while other requirements are capacity for leadership, character, and social qualities. In the line of scholarship, the upper one fourth of the senior class and the upper one eighth of the junior are eligible. However, this is further restricted to those having a two point average or better. It is felt that the above requirements qualify one to become a leading engineer.

The officers of the local chapter are: Scott Hammond, president; Bob Feemster, vice president; James Callahan, recording secretary; Gerald Billyeu, corresponding secretary; J. L. Forbis, student treasurer; H. V. Beck, faculty treasurer; and Robert Ratliff, cataloger.

### Sigma Tau

Sigma Tau, a national honorary engineering fraternity founded at the University of Nebraska February 22, 1904 has at the present time twenty three chapters located in various parts of the United States.

Mu chapter at the university was established May 13, 1916. The motives that guided the founders sprang from a general desire to be of service to engineering educators in colleges and universities where chapters are located. The membership is selected from those men who rank in scholarship among the upper one third of the juniors and seniors of a recognized engineering school. Selection of members from those men who qualify scholastically is made on the further basis of practicability and sociability.

Honorary membership may be granted to members of the engineering faculty ranking higher than instructor or to prominent practicing engineers.

In its efforts toward recognition of the ideal in engineering students, Sigma Tau has made a contribution to the advancement of engineering education. By providing for the recognition of individual achievement, the fraternity encourages engineering progress, since progress comes largely by following the advance of outstanding individuals. However, it is not enough to stop with the recognition of individuals, since such a practice tends to isolate a group from the main body of students. The development of leadership carries with it the principle of service and the measure of its service is the true index of the worth of the organization.

Finally Sigma Tau offers an opportunity for the formation and development of professional friendships. In order that engineers may properly carry out their professional missions it is imperative that they avail themselves of the contributions of others for the expansion and the tempering of their own ideas. Friendships resulting from fraternal ties are among the most potent influences in the attainment of success.

In 1926, as a result of endeavors to clarify the situation regarding honor societies, the Association of College Honor Societies was formed. The original members were Phi Beta Kappa, Tau Beta Pi, Sigma Xi, Phi Kappa Phi, Alpha Omega Alpha, and the Order of the Coif. This association, after an extensive survey of the field, extended an invitation to Sigma Tau to become a member. On March 3, 1930, Sigma Tau was admitted to full membership as the first honor society so recognized after the formation of the association.

Mu chapter initiated twenty-three men into the organization this year, this being one of the largest number of initiates for a number of years, due to the fact of the increase in number of students in college of engineering.

The officers are: Lee Minter, president; Bob Feemster, vice-president; Wilmar Ragsdale, recording secretary; Frank Ittner, corresponding secretary; Cecil Armstrong, treasurer; Henry Johnston, historian.

### Alpha Sigma Delta

Alpha Sigma Delta, radio fraternity, is coming into its own with the steadily mounting importance of radio in national and international life. Organized in 1920, the club then known as the Norman Radio Research club soon was incorporated and was given the call letters 5VM. The fraternity is growing into national proportions with chapters installed at Oklahoma A. & M. college, Stillwater; Massachusetts Institute of Technology and at Iowa State university, Iowa.

Plans are underway now to build a powerful short wave broadcasting station that will be capable of reaching all parts of the world, operating on twenty and eighty meters. The station at present is operated on top of the Union building, giving members access to an amateur station. The main purpose of the fraternity is to keep members in touch with the latest development in the radio field.

Officers are: Charles Adkisson, president; John Bender, vice president; and Goethe Groenendyke, secretary and treasurer.

### AIEE

The professional societies of the principal branches of engineering provide for their members much high grade technical information and news of recent developments. Frequent meetings are held, at which the members present and discuss papers on various technical subjects and become better acquainted with each other. Nearly all leaders in any engineering field are members of one or more such organizations.

The American Institute of Electrical Engineers was organized in 1884, and has a membership of more than 18,000; fifty-nine sections which include the members in certain localities; and one hundred and nine student branches located in universities and technical schools offering education for the profession of electrical engineering.

Its objects are the advancement of the theory and practice of electrical engineering, the maintenance of high professional standing among its members, and the development of the individual engineer. The institute has been an important factor in the progress in the electrical field during the past four decades.

The student branch of the American Institute of Electrical Engineers was established at the University of Oklahoma in 1912 and since then it has been kept active through the interest of the students.

The present officers are: Charles Ludwick, chairman; John Bender, vice chairman; John Strassberger, secretary-treasurer; Raymond Grisso, reporter; Wilmer Ragsdale, senior representative.

CHARLES LUDWICK.



### OPEN HOUSE

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consist of the following: the New gas and oil laboratory back of the power plant, where the largest and most important research problems of the American Society of Mechanical Engineers is now under way. This work will consist mainly of the determination of orifice

coefficients, for all oils, under all conditions. This research is being carried forward under the supervision and direction of Professor W. H. Carson, director of the school of mechanical engineering. The results will no doubt be far-reaching and influence the oil and gas industry from the transportation viewpoint in no small way.

Various novelties in the main laboratory, in addition to the exhibits showing what mechanical engineering is, will be displayed, among them are: a stroboscope; high velocity wind tunnel; and an ingenious high speed engine indicator, being developed under the supervision of Professor Liston. Under the direction of Professor Dawson is the hydraulic heating and ventilating fan affecting all fields of engineering, as well as public comfort and well being.

Mechanical engineering is one of the broadest of the professions. It is the fundamental frame-work of aeronautical, marine and all manufacturing undertakings, and is an important element in petroleum and electrical engineering.

### Electrical engineering exhibits

One of the most interesting exhibits of the engineers open house will be that of the electrical engineering school. There may be nothing new under the sun but nevertheless a few of the displays will be so novel that even the most sophisticated person will admit a few things even if his eyes do deceive him. There will be several unusual features including the photo-electric controlled water fountain, talking motor and the mysterious light.

The talking arc, Telsa coil, climbing arc, phonelloscope, Faradays disc, world's smallest motor, continuous music and the floating iron will make the most skeptical wonder at a few of these scientific phenomena.

Of interest to the housewife will be a new method of cooking on ice, the O. G. & E. exhibit and the General Electric refrigerator display. The newest electrical appliances and the most modern methods of home preservation of foods will be shown.

The Bell Telephone Company and the Western Electric Company have kindly consented to put on display models of the dial system of telephonic communication. These will be of special interest to those curious as to the inmost workings of the telephone.

Alpha Sigma Delta, honorary radio fraternity will display radio apparatus and have in operation a short wave telephone transmitter. All of the electrical equipment in the laboratories will be in operation. The lighting of the Union ballroom for the engineers' annual dance will be under the supervision of the electrical engineering school.