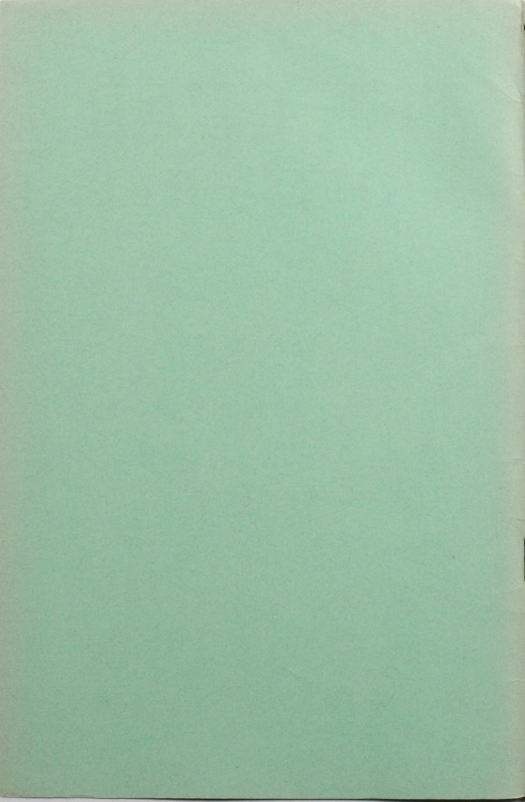


THE GEAR of THETA TAU

Fall, 1958

Volume XLVIII

Number 1



The GEAR of
THETA TAU



FALL, 1958

VOLUME XLVIII

NUMBER 1

Theta Tau Fraternity

Founded at the University of Minnesota October 15, 1904

FOUNDERS

ERICH J. SCHRADER
WILLIAM M. LEWIS

ISAAC B. HANKS
ELWIN L. VINAL

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Chester J. Selden, 24831 Crowley Ave., Taylor Center, Michigan
Palmer Terrell, 803 N. Highland, Fayetteville, Arkansas

THE GEAR OF THETA TAU

- P. L. MERCER, Omicron '21 and J. W. HOWE, Omicron '24 *Editors*
Engineering Building, Iowa City, Iowa

Letters for members of the Council should be addressed to
the individual by name.

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Cleveland—James R. McKinney, 715 Union Bldg., Cleveland 15, Ohio
Detroit—Leonard S. Stokes, 27908 Shock, St. Clair Shores, Mich.
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The GEAR *of* THETA TAU

OFFICIAL PUBLICATION OF THE FRATERNITY

P. L. MERCER, Omicron '21 and J. W. HOWE, Omicron '24
Editors

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Chapters

ALPHA, *Founded October 15, 1904* - - - - University of Minnesota
(Chapter house) 515 Tenth Ave., S.E., Minneapolis 14, Minn.

BETA, *Established March 26, 1906* - Michigan College of Mining and Tech.
(Chapter house) 1405 College Ave., Houghton, Michigan

GAMMA, *Established November 8, 1907* - - - Colorado School of Mines
Box 134, Colorado School of Mines, Golden, Colorado

DELTA, *Established May 23, 1911* - - - Case Institute of Technology
Theta Tau Box, Case Institute of Technology, Cleveland, Ohio

EPSILON, *Established May 4, 1911* - - - University of California,
Theta Tau Box, Hearst Mining Bldg., Univ. of Calif., Berkeley, Calif.

ZETA, *Established April 17, 1912* - - - - University of Kansas
(Chapter house) 1602 Louisiana Street, Lawrence, Kansas

IOTA, *Established February 5, 1916* - - - - Missouri School of Mines
c/o Prof. Ralph E. Schowalter, Mechanical Engineering Department,
Missouri School of Mines, Rolla, Mo.

LAMBDA, *Established April 29, 1920* - - - - University of Utah
University of Utah Union Building, Salt Lake City, Utah

MU, *Established January 3, 1922* - - - - University of Alabama
P. O. Box 3156, University, Alabama

XI, *Established January 13, 1923* - - - - University of Wisconsin
c/o Dr. G. A. Rohlich, 9 Hydraulics Lab., Univ. of Wis., Madison 6, Wis.

OMICRON, *Established February 3, 1923* - - - State University of Iowa
Theta Tau Box, Engineering Building, Iowa City, Iowa

PI., *Established May 26, 1923* - - - - University of Virginia
c/o Thornton Hall, University of Virginia, Charlottesville, Va.

Chapters (Continued)

- RHO**, Established February 16, 1924 - N. C. State College of Ag. and Eng.
P. O. Box 5282, North Carolina State College Station, Raleigh, N. C.
- SIGMA**, Established November 29, 1924 - - - - Ohio State University
(Chapter house) 1946 Indianola Avenue, Columbus 1, Ohio
- TAU**, Established December 12, 1925 - - - - Syracuse University
Box 128, University Station, Syracuse 10, N. Y.
- UPSILON**, Established April 7, 1928 - - - - University of Arkansas
301 North University, Fayetteville, Arkansas
- PHI**, Established April 21, 1928 - - - - Purdue University
(Chapter house) 416 North Chauncey, West Lafayette, Indiana
- CHI**, Established April 23, 1930 - - - - University of Arizona
840 E. Fourth St., Tucson, Arizona
- PSI**, Established May 7, 1932 - - - - Montana School of Mines
c/o Prof. Koehler Stout, Montana School of Mines, Butte, Montana
- OMEGA**, Established March 26, 1932 - - - S. Dakota School of Mines
(Chapter house) 107 Kansas City St., Rapid City, S. Dak.
- GAMMA BETA**, Established March 16, 1935 - George Washington University
Davis-Hodgkins House, George Washington Univ., Washington 6, D. C.
- DELTA BETA**, Established May 20, 1939 - - - University of Louisville
(Chapter house) 2022 S. First St., Louisville 8, Ky.
- EPSILON BETA**, Established May 19, 1951 - - - Wayne State University
(Chapter house) 1107 West Warren, Detroit 1, Michigan

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Twenty-second **BIENNIAL CONVENTION**

Edgewater Hotel Madison, Wisconsin December, 1958

Schedule

SATURDAY, DECEMBER 27

- | | |
|-----------|---|
| 2:00 p.m. | Registration begins |
| | Credentials Committee begins receiving delegates |
| | Appointment and instruction of committees begins |
| 7:30 p.m. | Informal gathering of delegates and alternates to meet Executive Council and alumni |

Convention Sessions

SUNDAY, DECEMBER 28

- | | |
|------------|--------------------------------|
| 9:00 a.m. | Pre-convention Ceremony |
| | First Convention Session |
| 12:00 noon | Grand Chapter Memorial Service |
| 12:30 p.m. | Luncheon |
| 1:30 p.m. | Second Convention Session |
| 4:00 p.m. | Committee Meetings |
| 6:30 p.m. | Dinner |
| 7:30 p.m. | Committee Meetings |

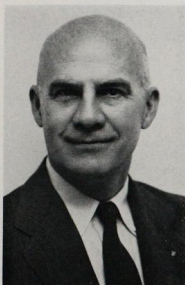
MONDAY, DECEMBER 29

- | | |
|------------|---------------------------|
| 9:00 a.m. | Third Convention Session |
| 12:30 p.m. | Luncheon |
| 1:30 p.m. | Fourth Convention Session |
| 5:00 p.m. | Initiation Ceremony |
| 6:30 p.m. | Reception |
| 7:00 p.m. | Banquet |

TUESDAY, DECEMBER 30

- | | |
|------------|----------------------------|
| 9:00 a.m. | Fifth Convention Session |
| 12:30 p.m. | Luncheon |
| 1:30 p.m. | Closing Convention Session |

Grand Regent Wins New Post With Lighting Engineers



Grand Regent A. Dexter Hinckley, executive secretary of the Illuminating Engineering Society for the past 14 years, has been named managing director of the international professional lighting organization, it has been announced. The post of managing director was recently created by the society's governing body to relieve its president of many detailed operating duties that developed as the 52-year-old society grew to include some 9,000 members in 83 sections and chapters in the United States and Canada.

Brother Hinckley's appointment was announced by George J. Taylor, Eastern vice president of the Day-

Brite Co., who assumed the I.E.S. presidency. The announcement was one of Mr. Taylor's first official acts.

Under the new arrangement, the managing director will assume long-range analysis and planning for the society and provide field service to the sections and chapters, subject to the approval of the president. He also will perform direct services to the officers and members of the governing body as required for efficient operation.

The new managing director became associated with the I.E.S. as a member in 1931 while teaching electrical engineering at Columbia University. In 1939 Brother Hinckley served a one-year term as chairman of the society's New York section and later became national general secretary and a director of the organization. For the final ten years of his service at Columbia University, where he had become an instructor in 1928, he was assistant to the Dean of Engineering.

Since 1954 he has been Grand Regent of Theta Tau, of which he has been a member for 32 years. He is also a member of the American Institute of Electrical Engineers and of the American Society of Electrical Engineers.

A graduate of Columbia University with the degrees of Bachelor of Arts ('25) and Electrical Engineer ('27), Brother Hinckley is a registered professional engineer, State of New York.

Grand Vice Regent Britzius Installed as Director by ASCE

Grand Vice Regent Charles W. Britzius was installed as Director of District 7 of the American Society of Civil Engineers at the convention of that organization in New York City, October 13-17. Brother Britzius has long been active in the ASCE and served as president of the Northwestern Section in 1951.

In addition to his work with the Fraternity and the ASCE, Brother Britzius is a member of the Minnesota Society of Professional Engineers which he is currently serving as president. He has also been president of the St. Paul Engineers Society. Brother Britzius is identified with civic as well as professional interests and is a member of the Deephaven, Minn., Planning Commission and the Citizens Committee for Education.

Brother Britzius is president of the Twin City Testing and Engineering Laboratory, Inc., St. Paul, Minn., which was known as the Hall Testing Laboratory when he purchased it in 1938, shortly after he received his M.S.C.E. degree from the Uni-



versity of Minnesota. He had previously received his B.S.C.E. degree from the same institution in 1933, and before his return to school for graduate work, he was employed successively by the Hall Testing Laboratory, the University of Minnesota and the Minnesota Highway Department.

Chi Dedicates House

by Jim Eidel

On Sunday afternoon, May 4, 1958, we dedicated our house to the members of Chi Chapter for as long as the need exists.

The members of Chi Chapter, alumni of Theta Tau, and their guests were invited to the dedication which took place on the front lawn and began with the playing of the Star

Spangled Banner. A welcoming address was then given by Dick Williams, Vice-Regent of Chi Chapter and chairman in charge of the dedication ceremonies.

Regent James W. Simms then dedicated the house to the members of the chapter. In commemoration of the founding of Chi Chapter, he presented a plaque bearing the names

and pictures of Captain H. A. Jimer-son and E. S. Borgquist, co-founders of Chi Chapter, to Mrs. H. A. Jimer-son and Professor Borgquist. They in turn presented the plaque to the chapter. It was accepted by house manager Albert Condes, and was

placed over the mantle in the living room.

Following the dedication ceremonies, refreshments were served to the guests and an informal open house was held.

Pi Elects New Officers, Opens Social Season

by Harold W. Deaner

The officers elected to head Pi Chapter for the fall semester are as follows:

Herbert E. McCormack, Jr. ... Regent
 Wilton M. King Vice Regent
 Wayne Burnett Scribe
 Henry W. Zimmerman Treasurer
 Harold W. Deaner ... Corresponding Secretary

On October 15, a luncheon was held in honor of Founders' Day at Newcomb Hall, The University of Virginia's new student activities building. The luncheon was attended by faculty and graduate brothers, active brothers, and pledges. A history of Theta Tau was given by one of our pledges. The luncheon was a great success.

The semi-annual Engineer's Ball, which is sponsored this fall by Pi Chapter, will be held November 1. This function is usually attended by both faculty and students of the Engineering School and a grand time is had by all.

The following members were initiated in a ceremony followed by a banquet held October 24: Kenneth B. Barrett, Jackie O. Bunting, Fleetwood P. Butler, James E. Drewry, John T. Gill, Jay M. Gwynne, Gene W. Hall, Donald W. Henderson, Marvin H. Hilton, John K. Mast, Paul C. Perryman, James D. Potter, Jr., John H. Sweitzer, John R. Thompson, George M. Wheatley, Jr., and Gerald C. Wilms.

Zeta Sponsors Engineering Homecoming for Third Year

by Jim Clutz and George Dodd

For the third successive year Zeta Chapter has sponsored an Engineering Homecoming for the alumni of the School of Engineering and Architecture.

The activities coincided with the annual University Homecoming, which began with the Varsity-Freshman basketball game on Friday even-

ing, November 7th. An engineering reception and get-together for engineering alumni exclusively was held from 9:00 to 11:00 on Saturday morning in the Music and Browsing Room of the Kansas Union. Refreshments were served at this time, during which the alumni had an opportunity to renew acquaintances with former classmates and professors, and

talk over old times. Various departments of the "engine" school prepared displays designed to bring back memories of past college days.

After a buffet lunch at the chapter house, the Zeta alumni went down to Memorial Stadium to cheer the Jayhawks to victory over Nebraska. Friday evening and Saturday provided a good time to cruise about the campus and look at the homecoming decorations.

The Homecoming project is Zeta's direct application of Theta Tau's open motto. Three years ago, it was noted by the chapter that the Engineers who returned to K.U. for homecoming had no specialized reception for them such as was held by the Law School. Permission was obtained from

the Dean of the Engineering School and much preliminary groundwork was laid in preparation for such an event to be sponsored by Theta Tau. The problems were various; objections from the administration had to be answered, financial support had to be arranged, and the support of alumni had to be obtained. The initial Engineering Homecoming proved to be so successful that Zeta Chapter continued the effort and this year, for the third time, sponsored the function as a service project to the Engineering College. Alumni response to the Homecoming has increased each year.

The Chapter has found the project both needy and challenging. The hand of Theta Tau found a project to do and did it with all its might.

Upsilon Opens With Founders' Day Banquet

by Bob Wilson

Upsilon Chapter started its social activities for the year on October 15 with the annual Founders' Day Banquet. Seventy members and pledges and their dates attended the affair. The speaker of the evening was Mr.

Laird Archer, a retired United States diplomat to Greece.

Other social activities planned by the chapter include a Christmas Dance and the annual Engineers' Day Banquet honoring the Saint Patricia candidates.



Upsilon Founders' Day Banquet

Chi Chapter Sets Up Outstanding Engineer Award

For the past two years, Chi Chapter has given an award for the "Outstanding Graduating Engineer" from the University of Arizona. An inscribed plaque is given to the recipient of the award at the annual "Engineers Dance" in a special ceremony. The winner's name is also added to the list on a perpetual plaque located in the lobby of the Engineering Building.

The preparation for presenting the first award began early in 1956. After deciding upon establishing the award, a committee was appointed to lay the framework. The heads of the five departments of the College of Engineering and Mines and the Deans were then asked their opinions about the planned award. As soon as they gave the go-ahead, the committee began setting up the qualifications and standards of grading.

The problem arose from the beginning as to who would do the final grading and choosing of the nominees. The heads of departments and Deans were ruled out because they lacked the time required for such a project. Next, members of the Chapter itself were eliminated to avoid the possibility of ill feeling being created if one of them were to win. It was finally decided that the Engineer's Council should do this job, since it consists of a cross-section of all the Engineering and Mines Colleges, Theta Tau and Tau Beta Pi.

The most difficult obstacle in formulating a grading system was in obtaining a realistic balance between grades, engineering activities, and

other campus activities. One of the first requirements set up which is still in effect is that the nominees must have at least a 2.5 cumulative grade average. The point system was divided up into three major sections: scholarship, activities, and offices held. Using the same general format as the past two years, but with a few revisions within the three main sections, the scoring is set up approximately like this:

Out of 155 points total, 35 are allotted to scholarship, with a 1.0 getting 35 points and a nonlinear variation down to 20 points for a 2.5 average.

Activities are given 60 points with 35 for Engineering activities and 25 for other.

Offices in organizations on campus are given 40 points total with the same amount given to engineering organizations as to other types.

At first, it may appear that scholarship has been slighted on scoring, but from previous experience, it was noted that the activities and offices sections only contribute about half of their maximum points to the final score.

After completion of grading on these three main phases, we consider two additional sections with a maximum of 10 points each.

Outside work is the first and is usually graded on the basis of the number of hours worked per week, along with the type of position held.

Finally, there is a 10 point adjustment in case the majority feels that a nominee has not been given a suf-

ficient number of points due to a technicality.

In considering the score to be given for each phase, a discussion is held after which the score is suggested by a council member which, in turn, must be approved by a majority vote.

The nominees for the award are chosen by the heads of the departments. Each department head may nominate a maximum of 5 graduating seniors.

Winner of the first award given was William P. Bliss, who graduated with a B.S. in Electrical Engineering

in 1957. Last year's winner was Ralph B. Miller, also a E.E.

Chi Chapter believes that the instigation of this award has brought more attention to the Engineering College at the U. of A., and hopes it will become a traditional climax to the annual "Engineers' Day" here. It also provides a good source of publicity for the Fraternity.

If any chapter would like a copy of the procedure, nominee questionnaire, or point system, or would like to ask any questions regarding the problems that were faced, please write to Chi Chapter.

Upsilon Brothers Active at Arkansas U.

by Bob Wilson

Upsilon members are well into another busy year on the campus of the University of Arkansas.

Brothers Jim Hefley and Jere Johnson were tapped for Omicron Delta Kappa and Brother Hefley was also tapped for Blue Key. Brother Kent Shreeve was elected president of the Engineering Council. Other council members from Upsilon Chapter include Jim Hefley, John Moore, John Hoskyn, Joe Kunkle, Bob Reynolds, Jim Reed, Bob Wilson, and pledge, Donald Dallas.

The ARKANSAS ENGINEER is

well staffed with Theta Tau's this year. The co-editors are Jim Hefley and John Moore. Business manager is Dick Blake. Staff members include Bob Wilson, Jim Kimzey, John Hoskyn, Kent Shreeve, Jack Hammett, Elmer Yancey, Bob Reynolds, Jim Sadler, Ken Dorland, Jim Price, Jim Colvert, and pledges Harry Weedman and Joe Crumpler.

Pledges Charles Yates, Donald Dallas and Bob Owen are candidates for Tau Beta Pi.

Brothers Jim Manville and Glendon Self were co-editors for the student directory this year and set a record for fast delivery.

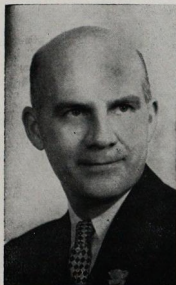
Epsilon Charter Elects New Slate of Officers

by Philip Winters

At elections held on September 23, 1958, the following officers were elected by the members of Epsilon Chapter to serve for the 1958-59 year.

James Taylor	Regent
Richard Moiola	Vice Regent
Philip Winters	Scribe
John Cosgriff	Corresponding Sec'y
Frank Dodge	Treasurer

The Grand Regent Says



The End and the Beginning—again in December we come to the end of a Biennium. A natural time for stock taking, and that we will, as Chapters, Alumni, Officers, and Committees report to the Convention. And having assayed our progress and accomplishments we will set our course for the future.

Such gains as we have made during the Biennium can be credited to the Brothers who have continued to give of time and effort, in the Theta Tau tradition. I voice the thanks of the whole Fraternity to Chapter Officers, Faculty Advisers, and to those Alumni who have done mighty jobs in their respective Associations and with their active Chapters. I record my heartfelt, personal thanks to the members of the Executive Council, to

the Editors of the Gear, and to our Past Grand Regents who have carried out their respective duties so faithfully.

It is wonderful to have the continued guidance and inspiration of the Four Founders. As you send greetings at this Holiday Season you most certainly will want to include—

Erich J. Schrader
P.O. Box 244,
Reno, Nevada

Elwin L. Vinal
4039 West Mercer Way,
Mercer Island, Washington

William M. Lewis
33 Pilgrim Lane,
Drexel Hill, Penn.

Isaac B. Hanks
2120 Northwest Boulevard,
Spokane, Washington

Those among the Alumni who are in touch with campus conditions, know that the future of Theta Tau Chapters is uncertain. I have mentioned previously the problems with which Capters must cope, such as, — Increasing ban on present and especially new organizations, where constitution or policy permits membership selectivity;

Difficulty in running Chapter programs directed toward developing a high standard of professional engineering interest;

Competition from social Fraternities, technical society chapters, and the demands of an increasingly scientific curriculum;

Lack of a national headquarters office with which Chapters can work on all administrative matters.

This leads again to my earnest request that all Alumni undertake to help the Fraternity. This you can do —

Continue your association with Brother Alumni;

Write your Chapter and be sure you receive their News-letters;

Visit your Chapter and give them of your engineering experience;

Help develop possibilities for new Chapters.

Our success in the future will depend to a great extent on the help given by the Alumni. They can provide not only the wisdom of experience, but also invaluable link with the Traditions which came with the Founding of Theta Tau. With this firmly in our minds and hearts, we are prepared to meet the challenge of the future.

In H and T,
A. Dexter Hinckley
Grand Regent

The Difference between Profession and Trade

A profession is that calling which is characterized by advanced academic training and a peculiar sense of duty on the part of practitioners which most often is expressed in some form of a code of ethical behavior. This code of ethics, which has its source in the individual's vocation, extends into every aspect of the person's life, and thus his personal behavior is directly influenced by his position. A trade, on the other hand, shall be considered as including those vocations which require no advanced academic training and which imply no sense of obligation to society or any part of society. The

moral behavior of the tradesman will stem from sources other than the job—church, family, lodge, etc. The job itself implies no special type of behavior nor an ethical obligation. Now this should not be taken to imply that there are no craftsmen who are not imbued with a deep sense of obligation to society. There are many who live by the creed of doing a job properly to the best of their ability. It is only intended here to contend that for the majority of technicians and tradesmen the job does not exercise an all-pervading influence on their lives such as is the case in the professions.

Hints For Regents

1. Appoint, don't ask for volunteers.

2. Make appointments tactfully, selecting the person most probably able to get the job done.

3. Ask for individual reports at meetings. Everyone needs prodding.

4. Don't run the whole show.

When possible, let chairmen name the members of their own committees.

5. Don't overlook the shy, quiet, non-aggressive individuals. They may become your steadiest workers.

6. Be sure every member has a specific job to do, if at all possible.

What They Think of Their Higher Education

Engineering graduates with the General Electric Co. are the most satisfied of all employees with their college training. Eighty-five per cent of them would have chosen the same institution of higher learning again if they could repeat their college days.

This and other interesting facts are reported in the recently completed General Electric Survey participated in by 13,586 of the college-educated men and women employed by the firm in managerial, professional, scientific, secretarial and clerical positions.

The survey was a careful attempt to have college graduates in the General Electric work force evaluate their higher education. It was hoped that the results made available to the administrations and faculties of institutions of higher learning might assist them in guidance and curricula planning and that, simultaneously, these results should be useful in testing and revising the company's machinery for recruiting and manpower mobilization. So far as can be determined, no similar study of a comparable sample has ever been conducted.

Originally 24,000 questionnaires were sent out and a total of 14,417 were returned; 7,157 from engineering graduates, 6,429 from non-engineering graduates and 561 incomplete or otherwise defective. Fifty-one per cent of the engineering graduates held degrees in electrical engineering, 7.8 per cent in chemical engineering, 29.3 per cent in mechanical engineering and 11.8 per cent in other engineering fields. Some of the most interesting questions with their answers from the engineering group follows:

1. "What Areas of College Study Have Contributed Most to Your Present Position of Responsibility with the General Electric Co.?"

Engineering graduates classified mathematics and English as the two most important subjects and gave third position to the courses that produced their specific engineering skills. There was ample indication that this group feels that some knowledge of basic engineering is helpful as a part of the core of any collegiate academic program. Following these areas of importance, the engineering graduates listed physics, economics, and chemistry, in that order.

2. "What Areas of College Have Contributed Least to Your Present Position of Responsibility with the General Electric Co.?"

It should be pointed out that these are not necessarily studies which lack value in themselves but rather those which lack a direct contribution to the personal business career of those questioned. Many courses mentioned as lacking career value were reported by the same people as valuable for leisure time pursuits.

Non-engineering graduates showed history, foreign language and miscellaneous sciences contributing least to a business career. The sciences most frequently mentioned as lacking in business value included biology, botany, zoology and geology. Government, sociology and economics were mentioned also.

Replies of engineering graduates varied little from those of non-engineering graduates except that their listing included engineering and

chemistry and excluded business and accounting. Engineering graduates appeared to be critical of engineering offerings in areas other than their personal interest and specialization. Some who were not using their engineering training in their immediate jobs were inclined to belittle the whole province of engineering as a career asset. Such a reaction might reasonably be expected and should develop no concern.

3. "What Areas of College Study Have Contributed Most to Your Use of Leisure Time?"

Replies from engineering and non-engineering graduates followed the same pattern with largely identical courses listed though with a somewhat different ranking. A variety of business courses were mentioned as contributing greatly to non-vocational activities. English literature was ranked as a strong second contender for leisure time and indications were present that the type and quality of personal leisure reading were directly related to literature courses in college. Miscellaneous sciences (biology, botany and geology) and history (specifically American and European) divided honors for third and fourth position. Non-technical employees placed mathematics in fifth place while technical employees gave that position to miscellaneous humanities (including arts, music and religion.) Many engineering graduates expressed regret that academic time had not been available to develop leisure-time interests. Some suggested a longer academic program to provide such time.

4. "What Specific Areas of Study or Courses Would You Recommend Most Highly to a

Young High School Graduate Entering College Who Aspires to a Position of Business Responsibility?"

Engineers, as might be expected, placed heavy emphasis upon their specialty but ranked English as the number one course, with engineering, economics, business and mathematics respectively following in line. Several expressed caution and said that engineering was their first choice only in the event that the student planned to enter a business similar to General Electric. Otherwise they would have placed English in first position. Many comments from both groups pointed to the need for a balanced program of studies without undue specialization. Specialization should be reserved for graduate training, they felt, or for special educational courses offered by the industry in which the student accepts employment. Typical comments emphasized that the program should be broad, should teach mental discipline and the ability to think, and should allow the student to take "all available engineering courses that might be scheduled."

5. "Do College Extra-Curricular Activities Aid an Individual in Developing Himself for a Career?"

Engineers averaged a reported participation of 94.09 per cent in extra-curricular activities while in college with the three leading activities being professional societies, athletics and social fraternities. Approximately 71 per cent of the engineers who participated in such activities felt that they aided in career development.

6. "Are College Values More Lasting in Influence Because of

Subject Matter or Teaching Personality?"

Engineering graduates were apparently more influenced by subject matter than by teaching personality. Every sub-group, with the exception of chemical engineers, on non-technical jobs placed subject matter first. On the average, 48.84 per cent of all engineers rated subject matter first; 45.28 per cent ranked teaching personality as more important and 5.87 per cent reported either "both" or "undecided."

7. Recommendation for Education Financing When Family Resources Are Limited.

The technique for financing an individual's higher education most widely suggested by respondents was to earn money by part-time work. Engineers were in favor of earning college costs, with 67.96 per cent voting for this method. However, 26.11 per cent felt that borrowing could be used, if necessary, in conjunction with an earning project in contrast with only 22 per cent in favor of borrowing among non-engineering graduates.

Overwhelming confidence in undertaking higher education was expressed time and time again in the comments added to the questionnaires, although basic disagreements arose over the specific course to follow. Most respondents favored college training as a very important factor in business success.

8. "If you Were Starting Life Again, Would You Attend the Same College and Take the Same Program of Study?"

Engineering graduates as a group were well satisfied with their choice

of educational institutions. If the opportunity of choice were again available, 85 per cent would go to the same institution. Since a career in engineering requires considerable planning, it would appear that more care had gone into the selection of the college, thus creating an atmosphere of satisfaction. Also, three out of four engineering graduates would choose the same course of study again. The most satisfied group was the electrical engineers, with over eighty per cent reporting a desire to repeat the same program. Mechanical engineers, miscellaneous engineers and chemical engineers followed in that order. Some replied that course variations would be small, consisting in some cases of greater breadth in non-engineering courses.

9. Comments Concerning Liberal Arts.

The prime purpose of undergraduate college education, according to many respondents, is not the acquisition of specialized information and operational techniques. Rather, it was volunteered time and time again that the power to think and to analyze a wide range of problems successfully is the true goal of a college education. Even if some consideration is given to the technical aspects of education, failure to produce an individual with these abilities is in essence a failure of the college program itself. The "whole man" concept seems quite strong in the thoughts of this group of employees.

The ability to get along well with others is also a factor that respondents feel should be stressed in the college curriculum. Those courses that aid the individual in the better under-

standing of his or her associates come in for high praise, because of the complicated interconnection in the lives of all of us. In this same vein, there was some emphasis upon the theory that college should develop within the individual a burning desire to associate himself with religious, social, community and service drives

to aid in the improvement of living conditions for his fellow man.

In general, the broad background offered by the liberal-arts curriculum can be tailored, in the light of many comments, to fashioning of a highly successful career in industry, particularly on the managerial or professional level.

The New Engineering Curriculum

J. O. Maloney, Zeta Adviser

During the last year a number of departments at Kansas University made revisions in their curricula, based upon the philosophy that the engineer of tomorrow must, of necessity, become more and more sophisticated in his knowledge of mathematics, physics, and chemistry in order to do engineering work capably. This has resulted in the establishment by the American Society of Engineering Education of certain areas of study for undergraduate engineers. These areas are known as engineering sciences and are grouped as follows:

Electrical Sciences

Nature and Properties of
Materials

Mechanics of Solids

Mechanics of Fluids

Thermodynamics

Transfer and Rate Mechanism

Some of these items may look like old wine in new bottles, but the taste of the wine is as new as the bottles. These subjects will form the foundation upon which all engineers will build. Furthermore, these subjects will not be taught as service courses to non-majors but majors and non-majors will be taught together in the same classes. This will probably re-

sult in more careful teaching by the instructors and in a more fundamental treatment of the subject material. Books are beginning to appear which treat these subjects from a fundamental aspect and are much different from the ones the writer knew as a student.

Another trend comes from the belief that students in their senior year should have a rather extensive experience in their own field in the analysis of engineering problems and in design. Both of these activities would employ as basic tools the engineering sciences. Some branches of engineering have been doing work like this for years, but now it will become more pervasive.

The net result of these modifications is that the graduates will have, on the average, a significantly better grasp of the physical principles than did those of previous generations. On the other hand, they will have lost some of the initial practicality which former graduates possessed.

It would not be surprising to learn that as the basic work becomes more professional, the engineering students will find more and more advantage in living together in fraternal organizations such as Theta Tau.

C. A. Dillon, Jr., Chosen Bank Director



C. A. Dillon, Jr., Rho '46, was elected last spring to the board of

directors of the First National Bank of Raleigh, N. C. Brother Dillon is treasurer and a director of Dillon Supply Company, one of the largest industrial machinery and mill supply companies in the southeastern United States, with main offices in Raleigh. In 1955 he was elected by the Raleigh Junior Chamber of Commerce as the outstanding young man in the City of Raleigh and then by the North Carolina Junior Chamber of Commerce as the outstanding young man in North Carolina.

A native of Raleigh, Brother Dillon is a member of the North Carolina State College Alumni Association board of directors and a director of the North Carolina Engineering Foundation.

N. C. State College Alumni News

Dr. John E. Allan, Epsilon '33, Introduces Geology Summer Course on Television

Dr. John Eliot Allen, Epsilon '33, professor of geology at Portland State College, Portland, Oregon, and one of the nation's well-known and widely-published geologists, conducted a 13-week television course in geology during the past summer.

The course, which was Portland State College's first venture into summer telecourses, was entitled *Scenic Trip into the Northwest's Geologic Past*, and the lectures included the stories behind the formation of many outstanding geologic features of that region, including, among others, the Columbia River Gorge, the Coast Ranges, and the High Cascade Volcanoes. Other

topics included the study of rocks and minerals as clues to the geologic history of an area, the geological calendar of the processes and events which have shaped the land surfaces of the Pacific Northwest, and the shapes of hills and valleys and the story they tell.

The course was designed to bring the viewer a new awareness and appreciation of the geological and scenic attractions of the Pacific Northwest as well as to give him a sound beginner's knowledge of geology and a new respect for the contributions of this vital science to man's welfare and enjoyment.

Charles Luckman, Kappa '30, Begins New Career As Architect



Left to right: Welton Becket, William Pereira, Charles Luckman, Paul Williams.

Eight years after his tight-lipped exit from the soap business, controversial 49-year-old Charles Luckman, Kappa '30, is applying his spectacular salesmanship in one of the world's largest architectural firms.

Pereira & Luckman, established in 1950, has designed close to \$2 billion to date, and has a healthy \$700 million backlog.

The "boy wonder" of Lever Brothers was actually returning to an old love when he founded P&L. An architecture degree he earned at University of Illinois in 1931, not much of an asset to a depression graduate, had been gathering dust for 19 years.

Brother Luckman's co-founder, William Pereira, is one of the ablest architects in the U.S. He has won such awards as the Museum of Modern Art Citation and the Art Alliance Medal and, before 1950, headed his own successful concern, W. L. Pereira & Associates.

The partners' specialty is master planning—the coordination of architecture and engineering on large-scale projects involving many buildings. On such jobs, P&L often directs a team of top-ranking architects.

A striking example of this method is one of the first jet age airports—the \$50 million Los Angeles International, slated for completion in 1959. It will boast a control tower 150 feet tall, a decentralized terminal designed to accommodate 9 million travelers a year by 1965 and 13 million by 1970 and a "sky-high" restaurant.

Pereira & Luckman, Welton Becket & Associates and Paul Williams are cooperating on the assignment with P&L in charge. Architectural fees for the project have not been disclosed, but the three firms will split several million dollars.

Other examples of P&L master planning are the \$160 million Prudential Center in Boston, Mass., the

\$3.5 million Marineland of the Pacific Oceanarium in Palos Verdes, Calif., and the University of California's new \$23 million seaside campus at Santa Barbara.

The company's workload is spread all over the world. Among its overseas projects are the Berlin Hilton hotel and the U.S. air and naval bases in Spain.

P&L is getting its share of domestic defense contracts, too. It is helping usher in the space age with major construction programs at Cape Canaveral, Fla., the site of the U.S. satellite and ICBM launchings, and at Camp Cook, the Army's new Pacific missile launching site.

News Front

Service Keynote of Firm Owned by Chuck Mlakar



Serving industry in the Northeastern Ohio area with machine tools is Methods Machinery Corp., Cleveland, owned by Charles L. ("Chuck") Mlakar, Delta '42. The firm is built on the foundation of being "Only as Big as the Service We Can Give."

Methods Machinery is a sales and service organization. Among the firms that it represents and their products are Minster Press Co., mechanical presses; Hartford Special Machinery

Co., automatic drilling and tapping machines; Olofsson Corp., precision boring machines and Automatic Feed Co., coil handling and press feeding equipment.

Immediately after graduation, Brother Mlakar entered the Navy. In 1946 he returned to civilian life and became a sales engineer for the Frank T. Goetz Co. in Cleveland. Mlakar resigned in 1955 to start his own organization.

Always interested in athletics, Brother Mlakar is active in golf, bowling and volleyball. He is a member of the Cleveland Engineering Society, Phi Delta Theta, Blue Key,

Acacia Country Club and the Cleveland Athletic Club in addition to Theta Tau.

The Case Alumnus

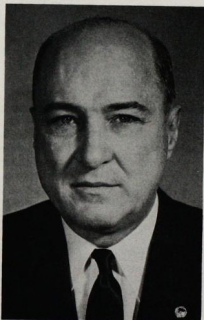
Stanley Learned, Zeta '24, Chairman of Kansas U. Fund Advisory Board

Stanley Learned, Zeta '24, recently became chairman of the Greater University Fund Advisory Board of the University of Kansas for the year 1958-59.

The Fund was created five years ago and is sponsored jointly by the Alumni and Endowment Associations as a vehicle for contributions of all alumni and friends to help meet needs for which state funds are not available. Brother Learned served as vice chairman of the Fund last year.

Brother Learned is chairman of the executive committee and assistant to the president of Phillips Petroleum Company. He is a 1924 graduate of the School of Engineering at Kansas U. and received a graduate degree in 1936. He has been with Phillips Petroleum Company since 1924.

Kansas Alumni Magazine



Elmer Warren Completes Armament Course

Army 2d Lt. Elmer J. Warren, Beta '58, recently completed the armament maintenance officer course at the Army Ordnance School, Aberdeen Proving Ground, Md.

The six-week course trained Brother Warren to supervise field

and depot maintenance of small arms and artillery.

The lieutenant is a 1951 graduate of Crystal Falls High School and a 1958 graduate of Michigan College of Mining and Technology.

W. B. Jacobsen Named Works Manager of Ceco Subsidiary



William B. Jacobsen, Lambda '29, has been named works manager of the Lemont Manufacturing Corp., new steel mill subsidiary being built by Ceco Steel Products near Lemont, Ill.

Until the steel mill is constructed, Brother Jacobsen will be headquartered at the Ceco general offices in Chicago.

Brother Jacobsen has held similar positions at Southwest Steel Rolling Mills, Oregon Steel Mills, Colorado Fuel and Iron Corp., and Creede Mills, Inc.

He holds a bachelor of science degree in metallurgy from the University of Utah and obtained a master of science degree from the Colorado School of Mines in 1933.

The Mines Magazine

Walter B. Wigton General Manager of Tool Division

Walter B. Wigton, Nu '32, has been made general manager of the Davis Boring Tool Division of Giddings and Lewis Machine Tool Co., at Fon Du Lac, Wis. After the company's acquisition of the Cincinnati Planer Co., where Brother Wigton had served as a chief electrical engineer, he became electrical engineer with the parent concern, Giddings and Lewis, and has served them in various capacities since.

Brother and Mrs. Wigton, the former Estelle Dana, live at 340 Sheboygan St., Fon Du Lac, with their three sons.

Carnegie Alumnus



Lee K. Worth Retires From Pam-Am Petroleum

Lee K. Worth, Gamma '17, assistant to the vice president of production, Pan American Petroleum Corp., has retired from the firm after nearly 39 years in the oil business, 37 of them with Pan American and predecessor companies. He is a 1917 graduate of the Colorado School of Mines.

His extensive career in the oil industry began in 1919, when, as a discharged World War I veteran, he was hired by Midwest Refining Co., at the Salt Creek field, Wyoming, as a roustabout.

Midwest was acquired by Standard Oil Co. (Indiana) in 1921, when Brother Worth's Pan American service also commenced. He then worked his way to a top executive post with the company.

A native of Alamosa, Colo., Brother Worth attended high school at Colorado Springs, graduating from Colorado Springs High School



in 1913. He enrolled that same year at Mines and graduated with an E.M. degree.

The Mines Magazine

Frank Lindeman, Jr., Establishes Consulting Office

Frank Lindeman, Jr., Tau '33, has established offices as a consultant to the petroleum industry in production matters at 7 West 18th Street, Tulsa, Okla.

Brother Lindeman, who resigned as vice president-production for Pan American Petroleum Corp., will specialize in general production practice, operational problems, engineering work, secondary recovery project, gas development and sales, and other aspects of industry activity.

His experience includes offshore

operations as well as production and plant activities over much of the western hemisphere, especially the United States and Canada.

Brother Lindeman joined Pan American in 1933 following his graduation from Mines and worked up through the organization to eventually become vice president-production in 1953. He served in the U.S. Army Corps of Engineers from 1924-46, attaining the rank of lieutenant-colonel.

Frank L. McClure, Tau '34, Heads du Pont Subsidiary in Brazil



Frank L. McClure, Tau '34, is now president and general manager of Du Pont De Brasil S.A.—Indústrias Químicas, a wholly owned du Pont subsidiary. A leader on campus (he was president of the inter-fraternity council), he early demonstrated his leadership qualities in du Pont. Early in his career, he received training in the theory and application of commercial explosives at the company's Eastern Laboratory in Gibbstown, N.J., and then spent a

period selling and servicing explosives in Colorado, New Mexico and Utah. In 1945, he went to South America to provide technical assistance to a number of large consumers of du Pont explosives and made a survey of the explosives business in several South American countries. Six months later he was back in the United States receiving production training at an explosives plant in Illinois and then served as a powder supervisor in that plant.

In the fall of 1946 he was made assistant manager of the Export Section of the Explosives Department and, in that capacity, made numerous trips to Latin America, the West Indies, and other parts of the world. Early in 1949 he was promoted to export manager and took up his duties in the company's headquarters in Wilmington, Delaware. Within four years, he became vice president and assistant general manager of the Brazilian subsidiary and a few months later he assumed his current duties.

The Mines Magazine

Paul M. Savage Receives Achievement Award From Case Institute

Paul M. Savage, Delta '22, secretary of the McGean Co., Cleveland, Ohio and past president of the Alumni Association of Case Institute of Technology, received a distinguished service award from the Case Alumni Association recently.

The award cited Brother Savage for his "zealous support of all Case

activities . . . for his establishing of the Don and Paul Savage Scholarship Fund . . . for his 15 years of outstanding service as a member of the Alumni Council . . . for his deep desire to be helpful in furthering the development of Case and the Alumni Association."

Case Alumnus

Paul A. Borel Heads Kansas Alumni Club



Paul A. Borel, Zeta '34, is the new president of the University of Kansas alumni club for the Washington, D.C. area.

Originally from Switzerland, Brother Borel took work at Harvard, Columbia, the National War College, and George Washington Uni-

versity as well as at Kansas. He joined the Central Intelligence Agency in Washington in 1947 and is now its Assistant Director.

Brother Borel and his wife Miriam have six children (pictured above).

Kansas Alumni Magazine

Paul F. Murray, Rho '56, Finishes Missile Officers' Course

Second Lt. Paul F. Murray, Rho '56, son of Mr. and Mrs. Paul Murray, 308 Meade St., Greenville, N. C., recently completed the four-month surface-to-air guided missile officer basic course at the Army Air Defense School, Fort Bliss, Tex.

Lieutenant Murray received instruction in theoretical and practical aspects of guided missiles and in air defense tactics.

Brother Murray entered the Army last March. The 22-year-old officer is a 1952 graduate of Greenville High School, a 1957 graduate of North Carolina State College and a member of Tau Beta Phi fraternity as well as Theta Tau. He was employed by Monsanto Chemical Co., Texas City, Tex., in civilian life.

Robert S. Shankland, Delta '29, Resigns as Physics Chairman at Case



Dr. Robert S. Shankland, Delta '29, head of the department of physics at Case Institute for nearly 18 years, has resigned the chairmanship so that he can devote all of his time to teaching and research.

Brother Shankland will continue

to hold the Ambrose Swasey Professorship in Physics. He will continue to make a major contribution to the strength and activity of the department in teaching and research, said Karl B. McEachron, dean of instruction.

The administrative direction of the department will become the responsibility of the physics departmental committee, consisting of Professors Leonard Olsen, Edwin Shrader, and Charles S. Smith, Delta '37, with Brother Smith serving as chairman.

Brother Shankland joined the staff of the Institute in 1930, became an assistant professor in 1937, associate professor in 1939 and head of the department in 1940. He served as director of the Underwater Sound Reference Laboratories of the National Defense Research Committee from 1942-45 while on leave. His present research interests include acoustics, atomic structure and nuclear physics.

Case Alumnus

Frank A. Crowley, Psi '54, Joins Staff of Montana Bureau of Mines

Frank A. Crowley, Psi '54, has joined the staff of the Montana Bureau of Mines and Geology, Butte, Montana, it has been announced by Dr. Edwin G. Koch, Director.

Brother Crowley, who will work out of the Butte office, was graduated from Montana School of Mines with a bachelor's degree in geological engineering in 1954 and received his master's degree in the same field in 1958.

During the summer of 1953 he worked as geologic field assistant for the United States Geological Survey. He was assistant geologist for the United States Atomic Energy Commission, Butte Office, during the 1954 summer months.

Brother Crowley served as a cartographic draftsman with the United States Army from August 1954 to July 1956.

He worked for the Montana Bu-

reau of Mines and Geology as an assistant geologist and was graduate assistant in the Department of Geology at Montana School of Mines.

In addition to Theta Tau, Brother Crowley belongs to the American Institute of Mining, Metallurgical and Petroleum Engineers.

Thomas W. Hunter Advances at Gary Steel Works

The United States Steel Corporation recently announced that Thomas W. Hunter, Nu '32 has been named General Superintendent of the Gary Steel Works. Brother Hunter had been Assistant to the Vice-President in the Pittsburgh headquarters of United States Steel.

Carnegie Alumnus



C. L. Barnhardt, Rho '24, Heads City Managers



City Manager C. L. Barnhardt, Rho '24, of New Bern, N. C. was elected new president of the North Carolina City Managers' Association this year. Brother Barnhardt succeeds Gen. James R. Townsend of Greensboro, N. C. Prior to going to New Bern, Brother Barnhardt was city engineer for Raleigh, North Carolina. N. C. State College Alumni News

David Jones Receives Performance Award



L. to R. Col. Harnett, H. B. Watkins,
"Davey" Jones

David Jones, Psi '34, of 94 R'shell Drive, Oakland, Calif., Chief

of the Army Engineers Mining Branch, recently received a \$200 sustained superior performance award from Colonel John S. Harnett, San Francisco District Army Engineer. Harlin B. Watkins, his supervisor, witnesses the presentation.

Brother Jones' award was based on work which requires his evaluation of all mineral properties involved in land transactions for the Army, Air Force and the Atomic Energy Commission in California, Nevada, Washington, Oregon, Utah and Arizona.

U. S. Army Engineers

David G. McKinstry Completes Post Engineer Course

Second Lt. David G. McKinstry, Iota '57, of Kansas City, Mo., recently completed with honors the post engineer course at the Army's European Engineer School in Murnau, Germany. Lieutenant McKinstry, an assistant post engineer in the U.S. Army Garrison's Headquarters in Fulda, Germany, entered the Army in January 1958, completed basic training at Fort Belvoir, Va., and arrived in Europe last April. The lieutenant, son of Mr. and Mrs. David McKinstry, 4413 Highland, is a 1953 graduate of Paseo High School and a 1957 graduate of Missouri School of Mines and Metal-



lurgy. Brother McKinstry, 23, is also a member of Sigma Nu fraternity. He is a former employee of the Allis-Chalmers Mfg. Co., West Allis, Wis.

Neal Wade, Pi '49, Made Superintendent

Neal Wade, Jr., Pi '49, has been appointed plant superintendent for the Cincinnati district of the Long

Lines Department of the American Telephone and Telegraph Co. He has been with AT & T since his gradu-

ation from the Engineering School of the University of Virginia and was previously staff accountant in New York. He was awarded a Sloan Foundation Scholarship for graduate work

in industrial management for the year 1955-56 at the Massachusetts Institute of Technology.

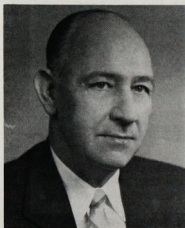
University of Virginia Alumni News

New Prexy of Equitable Gas Co. is D. B. Beecher, Nu '25

Donald B. Beecher, Nu '25, has been elected President of Equitable Gas Company and its subsidiaries in Pittsburgh, Pa.

Brother Beecher joined Equitable in 1926 and since that time has held many positions with the parent company and its subsidiaries. In 1945 he was elected vice president and general manager of Kentucky West Virginia Gas Company, a subsidiary of Equitable. He was elected vice president and general manager of Equitable in 1952.

Brother Beecher now lives in Virginia Manor, Mt. Lebanon, Pittsburgh, Pa. *The Carnegie Alumnus*



Robert Blackwood, Rho '38, Elected Good Roads Prexy

At the annual meeting of the Maine Good Roads Association, Robert "Bob" S. Blackwood, Rho '38, was elected president for the year 1958-59. Vice-president and sales manager of the Houghton-Arnold Machinery Co. of Portland, Maine, dealers in heavy equipment, Brother Blackwood served as second vice president of the organization last year. The Maine Good Roads Association is composed of 2,000 members, drawing heavily on contractors, engineers, state, county and town officials, and equipment dealers, whose pur-

pose is to encourage the building of a better highway system in the state. Active in the Army Reserve Program, Brother Blackwood is a Lt. Colonel and commands the 1st Bn., 304th Inf. Regt. He is vestryman of St. Albans Episcopal Church, a Mason, and holds memberships in the Portland Country Club and the Centerboard Yacht Club. He is married to the former Elizabeth Augusta Mauney of Lincolnton, N. C.; and they have three children: Anne, 14; Bob, Jr., 11; and Ralph, 8.

R. A Bradshaw Elected Veep of Contractors



Richard A. Bradshaw, Rho '34, partner in L. S. Bradshaw & Sons, General Contractors, of Salisbury, North Carolina, was elected vice-president of the Carolinas Branch, Associated General Contractors, last spring at the annual meeting of the association held at Hot Springs, Virginia. This is tantamount to being elected AGC president in 1959. Active in civic, religious and alumni affairs, Bradshaw has served as president and chairman of the board of the North Carolina State College Alumni Association.

N. C. State College Alumni News

Arthur J. Bazeley Moves Up at Chicago Firm

Arthur J. Bazeley, Delta '48, was recently promoted from consultant to associate in the central region for Booz, Allen, and Hamilton, Chicago, Ill.

Prior to joining the firm in 1955, Brother Bazeley was with the Cleveland Electric Illuminating Co. as an engineer and general supervisor of market research.

The new associate has participated in a variety of assignments for Booz, Allen and Hamilton, including executive compensation, market research, operating surveys and executive personnel. He was instrumental in the firm's work for Cessna Aircraft Co., Ohio Injector Co., International Steel Co., and Owens-Illinois Glass Co.

Leonard Sedlin in "Exercise Strong Arm"

First Lt. Leonard H. Sedlin, Mu '55, recently participated in "Exercise Strong Arm", a Continental Army Command maneuver conducted near Fort Polk, La.

Brother Sedlin, a telephone and teletype construction officer in the 53rd Signal Battalion's Company A at Fort Hood, Texas, entered the

Army in March 1956.

A member of Kappa Nu fraternity as well as Theta Tau, the lieutenant was graduated from Murphy High School in 1950 and the University of Alabama in 1955. He was employed by the Goodyear Tire and Rubber Co., Akron, Ohio in civilian life. His home is in Mobile, Alabama.

Letters To the Editor

Columbia Southern Chemical Corp.
No. 1 Gateway Center
Pittsburgh, Pennsylvania

Dear Brothers:

I have been in Pittsburgh since 1955 where I transferred after 20 years in Corpus Christi, Texas. My job is coordinator of Research and Development for Columbia Southern Chemical Corp., the wholly owned subsidiary of Pittsburgh Plate Glass. It's the same company I joined shortly after graduation.

In H & T,
H. W. Rahn
Alpha '33

Glad to have news of you, Brother Rahn.

U. S. S. Newell (Per 322)
%FPO, San Francisco, California

Dear Brothers:

I will be enjoying the lazy life of Hawaii while I am attached to the U. S. S. Newell. It is home-ported in Pearl Harbor where I expect to be for two years.

Yours in H & T,
Benny A. Anderson
Zeta '54

Think of us kindly this winter Brother Anderson!

Reeves Instrument Corporation
East Gate Blvd., Roosevelt Field
Garden City, L.I., New York

Dear Brother Mercer:

I would like to inform you that in November 1957 I assumed the position of Vice President of Manufacturing of the Reeves Instrument Corporation, Garden City, New York. This capacity encompasses all aspects of the production of electro-mechanical components; such as analog computers, radars, gyros, resolvers and other intricate devices used in aircraft and missile guidance.

This change of position terminated an eighteen year career with Sperry Gyroscope Company, Division of Sperry Rand Corporation, where I held the title of Manufacturing Manager.

At this time, I would like to state how much I enjoy THE GEAR as it is interesting to know how other classmates have progressed over the years.

In H & T,
J. A. Nottingham
Zeta '40

Congratulations on your new position, Brother Nottingham! The information will be duly noted on our mailing list.

1528 No. Stephens Ave.
Springfield, Illinois

Dear Brothers Mercer and Howe:

The enclosed change of address information will correct my oversight in not having informed you previously of my most recent change. The Gear was forwarded to me from Mexico City this time.

It would be best, though, to note on my address record that this present one will be changed in a few months more. The Fall issue should reach me satisfactorily here.

The latter part of February I started working for Allis-Chalmers Mfg. Co., in their A-C International Division. It appears now that I will complete the orientation or familiarization program about the end of September or possibly the middle of October, after which we will be preparing to move to Brazil. Possibly I will find it necessary to fly down alone first, for a few or several weeks, return, and then my family and I will go down by ship soon after that. We most likely will be living in Sao Paulo this time (it was Rio de Janeiro where we lived from 1943 to 1947) but that and many other details will have to be worked out later on.

It was good to receive the newest issue of THE GEAR and read the doings and activities of the different chapters. We are fortunate to have such excellent men heading our fraternity, nationally and locally, and as our Editors.

Yours in H & T,
Will A. Burleson
Omega '37

There is certainly no moss on you, Brother Burleson. Thanks for the news and comment.

Dear Brothers:

Time to make another change of address. You have been sending my "Gears" to Chanute, Kansas and I just recently collected the three latest issues after being out of the country for two years. My job was with the U. S. P. H. S. assigned to I. C. A. (Mutual Security program) as Chief Sanitary Engineer for the U. S. Mission to Vietnam. Now I am with the City-County Health Department, 619 Ann Avenue, Kansas City 1, Kansas. Please note the new address. Thanks.

In H. and T.
Herman A. Janzen
Zeta '39

Thank you, Brother Janzen for keeping us up to date!

Additions to Membership

BETA

- 824 Dave John Trimberger, Iron River, Mich.
- 825 William Donald Jacobs, Jr., Wayne, Mich.
- 826 Donald Louis Schaible, Detroit, Mich.
- 827 Robert Neil Smart, Hillman, Mich.
- 828 Frederic Pember Andresen, Scottville, Mich.
- 829 Max Rukavina (nmn), Coleraine, Minn.
- 830 James Lloyd Smith, Owosso, Mich.
- 831 Donald Charles Larson, Iron River, Mich.
- 832 Martin John Puro, Sudbury, Ontario, Canada
- 833 LeRoy Adolph Swenson, Chisholm, Minn.
- 834 Paul Wesley Johnson, Marquette, Mich.
- 835 Robert Michael Margo, Chisholm, Minn.
- 836 William Charles Ferguson, Garson Mine, Ontario, Canada
- 837 Joseph Stanley Wasielewski, Detroit 13, Mich.
- 838 Louis Eugene Colombo, Grand Rapids, Mich.

DELTA

- 937 Joseph Alexander, no city given
- 938 Richard Welton Barrett, Lyndhurst, Ohio
- 939 Wolfgang Fred Bauer, Toledo, Ohio
- 940 David Archibald Clutz, Mercersburg, Pa.
- 941 John Wesley Cook, Youngstown, Ohio
- 942 Daniel Arthur Daly, Doylestown, Ohio
- 943 Neil Donaghy, Youngstown, Ohio
- 944 Charles Earl Dremann, Parma, Ohio
- 945 Robert Charles Garver, Massillon, Ohio
- 946 John Thomas Gerhan, Cleveland Heights, Ohio
- 947 Murray Solomon Gertner, no city given
- 948 David Anthony Giltinan, Jamestown, N. Y.
- 949 William Ronald Holland, no city given
- 950 Howard James Horton, Farrell, Pa.
- 951 Jack LaVern Irwin, Linesville, Pa.
- 952 Robert Andres Komenda, Cleveland, Ohio
- 953 Anthony Regis McNamara, Cleveland, Ohio

- 954 Bruce Gordon Monteith, Cuyahoga Falls, Ohio
- 955 William Herbert Ninke, no city given
- 956 David Franklin Nyman, North Royalton, Ohio
- 957 Carl Edward Palmer, Warren, Ohio
- 958 Lee John Penkowski, Garfield Heights, Ohio
- 959 James Archie Ramsey, Margarita, Canal Zone
- 960 John Andrew Rogers, Youngstown, Ohio
- 961 David Arthur Schuenemann, Cleveland, Ohio
- 962 Earl David Shufflebarger, Youngstown, Ohio
- 963 Harry Duane Sowers, Niles, Ohio
- 964 Richard Bernard Voegtli, Chicago 30, Ill.

ZETA

- 629 David Lee Stahl, Topeka, Kan.
- 630 Jack "J" James, Leavenworth, Kan.
- 631 James Allen Clutz, Rochester, N. Y.
- 632 Carl Lee McClung, Lawrence, Kan.
- 633 William Kenneth Freshley, Jr., South Bend, Ind.
- 634 Roger Lynn Benefiel, Lyons, Kan.

LAMBDA

- 742 Samuel John Colombo, Helper, Utah
- 743 John Edward Droubay, Murray, Utah
- 744 Phillip Gwinnip (nmn), Salt Lake City, Utah
- 745 Nelson William Hagen, Salt Lake City, Utah
- 746 Earl "D" Harding, Evanston, Wyo.
- 747 Joseph Douglas McDonald, Salt Lake City, Utah
- 748 John Packard Redd, no city given
- 749 Robert Joseph Wahl, Helper, Utah
- 750 Robert Bruce Williams, Salt Lake City, Utah
- 751 Grant Kenneth Borg, Hon., Salt Lake City, Utah
- 752 Norman Wallace Ryan, Hon., Salt Lake City, Utah

MU

- 702 Kenneth Nye Letson, Owens Cross Road, Ala.
- 703 William Alexander Hoffman III, Chadds Ford, Pa.
- 704 Frank Ward James, Jr., Huntsville, Ala.
- 705 Lloyd Thomas Taylor, Silas, Ala.
- 706 Earl Franklin Dubin, Akron, Ohio

- 707 Thomas Hugh Gachet, Dothan, Ala.
 708 Josh Dalton Johnson, Troy, Ala.
 709 Bruce Wallace Stephenson, Bakersfield University, Ala.
 710 Thomas Ethin Cook Jr., Aiken, S. C.
 711 Frederick Herman Hudoff, Mobile, Ala.
 712 Elmer Maurice Mitchell, Brent, Ala.
 713 Donald Terrell Comer, Tuscaloosa, Ala.
 714 George Thomas Goodwyn, Montgomery, Ala.
 715 James Larkin Woodward, Tuscaloosa, Ala.
 716 Breckenridge Barnes Aduston Rogers, Jr., Eutaw, Ala.
 717 Donald Louis Harding, Leeds, Ala.
 718 William Jackson Stone, Tuscaloosa, Ala.
 719 Lewis Alfred McKenzie, Flat Rock, Ala.
 720 Robert Benjamin Cardy, Grand Bay, Ala.
 721 Albert Lewis Lee, Carrollton, Ala.
 722 Daniel Jerome Stewart, West Wilington, Conn.
 723 Rayburn Clyde Hamer, Jr., Demopolis, Ala.

XI

- 201 Alexander Morse Meyers, Madison, Wis.
 202 Paul Ernest Schuman, Madison, Wis.

RHO

- 584 Benjamin Elias Lemons, Winston-Salem, N. C.
 585 James Lyndon Brown, Winston-Salem, N. C.
 586 Stevie Mike Yionoulis, Wilson, N. C.
 587 John Barnum Garland, Matthews, N. C.

SIGMA

- 503 Gordon Roger Howard, Germantown, Ohio
 504 David Tice Johnson, Columbus, Ohio
 505 Richard Milo Moyer, Bellevue, Ohio
 506 Roland Edward Norris, Washington 21, D. C.
 507 Arnold LeRoy Schaller, Perrysburg, Ohio
 508 William Martin Virostko, Columbus 22, Ohio
 509 Robert William Schultz, Elyria, Ohio

TAU

- 618 Burton Morton Kozel, Rochester 21, N. Y.
 619 Alan Edwin Kushnick, Long Island City 4, N. Y.
 620 Leon Fredrick Mongano, Ridgefield Park, N. J.

- 621 William Perry Peck, Seneca, N. Y.
 622 Oskar Dietrich Lothar Schriever, Cottekill, N. Y.

CHI

- 557 David John Hall, Tucson, Ariz.
 558 John Coleman Balla, Pomona, Calif.
 559 Robert James Benedict, Tucson, Ariz.
 560 Donald Bird, Tucson, Ariz.
 561 Andrew Jackson Gilbert III, Warren, Ariz.
 562 Lincoln Louis Hathaway, Tucson, Ariz.
 563 Thomas Adelbert Jimerson, Tucson, Ariz.
 564 Charles Earl Jones, Jr., Tucson, Ariz.
 565 Joseph Philip Lennon, Tucson, Ariz.
 566 Richard Wade Loudermilk, Tucson, Ariz.
 567 Robert William Rupe, Winslow, Ariz.
 568 Ronald Francis Shuck, Tucson, Ariz.
 569 Charles Edwin Weir, Blackwood Terrace, N. J.

PSI

- 403 Gustav Stolz, Jr. (nmn), Butte, Mont.

OMEGA

- 506 William Vernon Coyle, Rapid City, S. D.
 507 Carl Albert Grimm, no city given
 508 Douglas Eugene Aldrich Sioux Falls, S. D.
 509 Warren Dudley Barnum, Rapid City, S. D.
 510 Forrest Douglas Capler, Gordon, Neb.
 511 David Peter Frerk, Sioux Falls, S. D.
 512 Dale Willard Gruebele, Greenway, S. D.
 513 John Frederick Pearson, Madison, S. D.
 514 Edward Roland Tegland, Pierre, S. D.

GAMMA BETA

- 386 Thomas Winslow Coleman, Arlington, Va.
 387 James Howard Crist, Jr., Arlington, Va.
 388 Patrick Hilbert Cudmore, Washington, D. C.
 389 Wayne Alton Davis, Fort Macleod, Alberta, Canada
 390 Robert Michael Gall, Washington, D. C.
 391 Ronald Allen Grossman, Washington, D. C.
 392 Joseph Clifton Hall, Bladensburg, Md.

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| 393 Fred Ellis Hood, Jr., Washington, D. C. | 322 Graham Bell McDonald, Jr., Louisville, Ky. |
| 394 John Virgil Howie, Jackson, Miss. | 323 Bernard Francis Schunicht, Louisville, Ky. |
| 395 Bertrand Leroy Johnson, Jr., Silver Spring, Md. | 324 Morgan Stuart Waugh, Louisville, Ky. |
| 396 Robert Milton Moore, Alexandria, Va. | |
| 397 Lester James Robinson, Jr., Washington, D. C. | |
| 398 Richard Class Stevens, Arlington, Va. | |
| 399 Paul David Travesky, West Hyattsville, Md. | |
| 400 Jacob Willebeek-LeMair (nmn), Silver Spring, Md. | |
- DELTA BETA
- | | |
|---|--|
| 321 Robert Samuel Badgett, Richmond, Ind. | |
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EPSILON BETA

- | |
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| 118 John Baetz, Jr. (nmn), Saint Clair Shores, Mich. |
| 119 Ronald Neil Bill, Royal Oak, Mich. |
| 120 Russell Clyde Holmes, Detroit, Mich. |
| 121 Robert Emil Knoll, Detroit, Mich. |
| 122 George Earl Maule, Jr., Wyandotte, Mich. |
| 123 Edmond Julian Van Elklander, Detroit, Mich. |

The ME's father paid his son a visit regarding some of the rumors he had been getting back home. Arriving at midnight, he banged on the frat house door. A voice from the second floor yelled "What do you want?"

Father: Does John Smith live here?

Voice: Yeah, bring him in.

A lot of our enterprising young engineers are spending much of their valuable time tinkering with misses in their motors.

Pilot to Navigator: Where are we?

Navigator to Pilot: By using my extensive knowledge of calculus and trigonometry, I have calculated our position to be three miles from infinity.

"Oh, there goes that Jones woman. Isn't her husband regarded as a pretty good judge?"

"Well, everybody used to think so, until he married her."

"Possibly a ton of bouquets weighs as much as a ton of brickbats; but it's hard to believe if you've had both thrown at you."

"Hey, Sam, where've ya been?"

"In the telephone booth telling my girl goodbye."

"It didn't take you long."

"Naw. It's because some old guy was waiting to use the phone, so we had to get out."

"When President Grover Cleveland's second child was born, the doctor asked him to fetch a scale so that the baby's weight could be determined. Cleveland searched throughout the house without success. Finally, he remembered that he had an old scale in the basement which he had used on his fishing trips. He got it and brought it upstairs. Carefully, the doctor placed the baby on the scale and was amazed to learn that the newborn infant weighed 25 pounds."

Farmer Brown: I don't think much of this new government weather prophet on the radio. Do you?

Farmer White: Well, I'm not gonna complain about it. Just think how bad it would be if the government started regulating the weather instead of just predicting it.

In Memoriam

— Martin Adolph Agather, Alpha '31, died June 10, 1958, age 47. He was born in Sauk Rapids, Minn., on February 1, 1911 and graduated as an electrical engineer at the University of Minnesota in 1931. After graduation he joined the staff of the Murray Finance Co., in Minneapolis, and at the time of his death was general credit manager of Gamble-Skogmo Co., in Minneapolis. He was a captain in the U. S. Army in World War II. Surviving are his wife, Miriam; four sisters; and two brothers. The family home was at 5405 South Colfax Ave., Minneapolis, Minn. and burial was at Ft. Snelling National Cemetery.

— Samuel James Burris, Jr., Gamma '15, died in Pueblo, Colorado, on March 28, 1959. He was born in Pueblo on July 7, 1893, the son of S. J. and Olla (Bell) Burris and graduated as a mining engineer from the Colorado School of Mines in 1915. He was married in Ogden, Utah, on December 23, 1919, to Hazel G. Smith. In 1916 he was mill superintendent for the Valley View Consolidated in California, and then for the Orogrande Mining Co., in Siskiyou County, California. In 1917 he became general superintendent for the Inca Gold Mining Co., La Plate County, Colorado, and in 1918 was in charge of a mine in Siver County, Arkansas. From 1918 through 1919 he was an ensign in the U. S. Navy and then field engineer for the Metals Exploration Co., in Denver. From 1921 to 1923 he was in charge of the Anna Beaver Mine, Cardin, Oklahoma, and then joined the staff of the Colorado Public Utilities Comm. in Denver. Then he became test engineer for the International Smelting Co. in Utah, and then metallurgist in charge of milling for the St. Louis Smelting Co., Baxter Springs, Kansas, and from 1932 to World War II's end he was in charge of the Kalumite Inc. Defense Plant Corp. in Salt Lake City when he returned to Pueblo on family business and remained there until his death. His mother and his wife, Ruth V. Burris, survive in Pueblo, and also surviving are two brothers, one sister, and three step-children.

— Kenneth Seymour Moorhead Davidson, Eta '20, died March 19, 1958. He was born in Buffalo, New York, on February 9, 1898, the son of Frank and Minnie S. J.

Davidson, and graduated as a mechanical engineer from the Massachusetts Institute of Technology in 1920. He received an honorary doctor of science degree from Stevens Institute of Technology in 1944. He was a second lieutenant in the U. S. Air Force in 1918 and at the time of his death was a research engineer for the U. S. Navy. From 1923 to 1930 he was chief engineer for the Crosby Steam Gage and Valve Co. In 1930 he joined the faculty of Stevens and was professor of mechanical engineering in 1958. He received the John Price Wetherill Medal from Franklin Institute. He was married in Boston, Mass., to Katherine Staples in 1923. Surviving are his widow and a daughter, Ann Seymour. He was also a member of Sigma Xi. The family home was at Campbell Rd., Bernardsville, New Jersey.

— Frederick Dehls, Theta '22, died February 8, 1958, age 58. He was born in Brooklyn, N. Y. on May 24, 1899, the son of John C. and Marguerite Dehls, and graduated as an electrical engineer from Columbia University in 1922 having received his A.B. at Columbia in 1918. He was married in Brooklyn to Dorothy Mae Roberts on October 6, 1925. From 1922 to 1925 he was with All American Cables, Inc., and from 1925 to 1927 he was with Western Electric Co. From 1927 to the time of his death, he was Executive Vice President of Benzol Products Co., Newark, N. J. Surviving are his wife; a daughter, Lois Marguerite; and a son, Allan Weymouth, also with Benzol Products Co. and living at 1491 Deer Path, Moutainside, N. J. Brother Dehls was also a member of Tau Beta Pi.

— Norman Elliot Erickson, Psi '56, lieutenant USAF, was killed in the crash of a B-25 light bomber on a ranch near San Angelo, Texas on April 11, 1958. He was born on November 20, 1933, in Lewistown, Montana, the son of Mr. and Mrs. Ed. Erickson, 1210 West Main St., Lewistown. He graduated in 1956 as a petroleum engineer from the Montana School of Mines and joined the staff of the Stanolind Oil and Gas Co. At the time of his death, he was a student pilot at Goodfellow Air Force Base at San Angelo. Surviving are his parents; his wife, the former Shirley

Leason of Butte; three brothers and a sister.

ers. The family home is at 7335 Whipple St., Swissvale, Pa.

— George Gilbert Gallagher, Gamma '32, died in Washington, D. C., on March 24, 1958, age 58. He was born in Leicester, Mass., but grew up in Colorado Springs, Colorado. He was with the United Verde Copper Co. in Jerome after he graduated as a mining engineer at the Colorado School of Mines, and in 1936 was with the Lava Cap Gold Mining Corp. in Grass Valley, Calif., as superintendent of their banner mine. He was also in Sutter Creek, Calif., for a short time as a mine superintendent. At the start of World War II, he joined the staff of the mining division of the Reconstruction Finance Corporation in Washington, D. C., and remained there until the end of the war. After being in Mexico for a year, he returned to Washington in 1949 to be with the Atomic Energy Commission and at the time of his death was acting technical advisor, Division of Raw Materials. Surviving are his wife, Mary; and one son who is a medical student at the University of Maryland in Baltimore. The family home is at Apt. 100, 4201 Massachusetts Ave., Washington 16, D. C.

— Henry Wilson Howell, Jr., Theta '26, died October 16, 1958, age 65. He was born in Seachiff, New York on August 18, 1893, the son of Henry Wilson and Julia Olmstead Howell. He was educated at Trinity School and Columbia University and in 1956 received an M. S. from Columbia. Immediately after graduation he joined the firm of Cushman and Wakefield, 281 Madison Ave., New York City and was vice president of that firm at the time of his death. In 1933 the Alumni Federation of Columbia University gave him its medal for conspicuous service. He was a lieutenant commander, U. S. N. R.-CEC, and was awarded the Navy's Commendation Ribbon. He was the delegate from Theta to the 1925 National Convention of Theta Tau. He was also a member of Tau Beta Pi and Sigma Xi honor societies. Surviving are his wife, Mrs. Hanna Johnson Howell; his mother; two sisters, Mrs. C. W. Tuttle and Mrs. Donald F. Sealy; and a brother, Arthur Babcock Howell. The family home was at 151 East 83rd St., New York City.

— Herman Lyle Griffin, Nu '23, a charter member of Nu, died March 29, 1958, age 62. He was born in Earlham, Iowa, in 1896 and graduated as a mining engineer at Carnegie Institute of Technology in 1923. He was a member of Tau Beta Pi.

After graduation he was a mining engineer for the Buckeye Coal Co. at Nemaquin, Pa. Then he became chief engineer for the New England Fuel and Transportation Co. at Grant Town, West Virginia, and then chief engineer for the Federal Coal and Coke Co., also in Grant Town. In 1939 he was superintendent of the Hanna Coal Co., Lafferty Mine, Lafferty, Ohio, and in 1940 was in Morgantown, Pa. In 1942 and 1946 he was with the Diamond Alkali Co., in 1947 he worked for Jones and Laughlin at the Vesta Coal Mine, California, Pa., and in 1955 was with the Ohio Brass Co., Mansfield, Ohio. Then he joined the staff of the U. S. Engineers in Pittsburgh, Pa. At the time of his death he was evaluation engineer for the Bureau of International Revenue in Pittsburgh, Pa. Surviving are his widow, Ola Minor Griffin; his daughter, Elizabeth; two sons, Herman, Jr. and Edwin; his mother, Mrs. Ida M. Griffin; three sisters, and three brothers.

— Joseph Hawthorne Kelley, Pi '33, died January 23, 1958. He was born in Charlottesville, Va., and graduated as a mechanical engineer at the University of Virginia in 1933. After graduation he worked for a number of companies and at the time of his death was mechanical engineer for the Central Telephone Co. in Mt. Airy, North Carolina. Surviving is his father. The family home was at 1007 South Main, Mt. Airy, North Carolina.

— William Homer King, Gamma '28, died June 11, 1958, age 62. He was born in Algona, Iowa, on October 1, 1895, the son of William H. and Martha A. King. He served in the U. S. Army in World War I and participated in some of the important battles. He attended the Colorado School of Mines and graduated as a mining engineer in 1928. Following employment at various mines in California, he joined the staff of the U. S. Bureau of Mines in a series of professional and administrative positions over a period of 18 years. He joined the Bureau of Mines in Tucson in 1940 and transferred to Salt Lake City in 1943. Then he was assigned to the

mining division in Washington, D. C., and returned to Denver in 1950 to take charge of the contract work connected with the driving of the Leadville Drainage Tunnel. In 1952 he was designated executive officer on the DMEA Field Team and later on became chief of the Mining Division of the Bureau of Mines until 1956 when he was detailed to Rifle, Colorado, as superintendent of the Oil Shale experiment station. In June 1957 he was again appointed executive officer of the DMEA Field Team. Surviving are his wife, Pauline King; a daughter, Carolyn J. King of Berkeley, California; a sister, Mrs. C. Ward Macy of Eugene, Oregon; and a brother, David King of Algona, Iowa. The family home was at 6620 East 17th St., Denver, Colorado.

work in Peru. From 1915 to 1925 he was research engineer for Anaconda Copper Mining Co., in Anaconda, Montana, and then manager of Giesche Spolka Akcyjna in Poland until 1930 when he became a principal metallurgist for the U. S. Bureau of Mines. In 1942 he was made metallurgical engineer for Combined Metals Reduction Co. in Salt Lake City. He retired some years ago to his farm near Poulson, Montana. Surviving are his widow; a son, Ernest, Jr., Beta '41, who is with Lago Oil and Transport Co., Ltd., on the island of Aruba, Curacao, Netherlands West Indies; a daughter, Geraldine (Mrs. Jay Van Trawer) and several grandchildren.

— Osgood Curtis Kinney, Gamma '30, died July 21, 1958, age 54. He was born in Green Bay, Wisconsin, on April 7, 1904. After his parents moved to Denver, he graduated from the Colorado School of Mines as a mining engineer in 1930. After graduation he worked as a sales engineer for the American Blower Co. in Denver, and was vice president of the Fox Metal Products Co., in Littleton, Colorado. At the time of his death, he was head of O. C. Kinney & Co., sheet contractors, which he had organized in 1956. From 1951 to 1956 he was sales engineer for the Dowdle Air Conditioning and Heating Co., in Denver. Surviving are his wife; a son, Richard; his mother, Ethel Kinney; and a brother, Stevens Park Kinney, all of Denver. The family home was at 1804 South Pearl St., Denver.

— Louis George Kreutzer, Theta '21, died at his home on January 3, 1958. He was a graduate of Townsend Harris High School and graduated as a mining engineer from Columbia University in 1921, having received an A. B. in 1918. After graduation he was employed by J. S. Fulton, Inc., a plaster contractor, in New York and studied law at Fordham. For some years he was with the Berwind-White Coal Co., Windber, Pa. Then he was assistant secretary of the North Side Savings Bank in New York. At the time of his death, he had law offices in Bronxville, N. Y. Surviving are his wife, Vera Drake Kreutzer; two sons, Louis, Jr., and Richard. The family home was at 65 Kensington Rd., Bronxville, New York. He was also a member of Tau Beta Pi honor society.

— Ernest Klepetko, Sr., Beta '11, died June 27, 1958, at his home in Poulson, Montana. He was born in Calumet, Michigan, on September 7, 1888, the son of Frank and Wilhelmina Klepetko. Frank Klepetko was a world famous metallurgist having built the smelter and plant at Anaconda, Montana, and the smelter and plant for Cerro de Pasco in Peru, S.A. Brother Klepetko was a student at Columbia University in 1905 and 1906 and joined Alpha Delta Phi while at Columbia. Then he transferred to Michigan College of Mines and graduated as a metallurgical engineer in 1911. He returned briefly to Columbia for graduate work and while there gathered the group that became the charter members of Theta Chapter of Theta Tau. On June 28, 1916, he was married to Gladys M. Schroeder. From 1911 to 1913 he was on exploration

— Helmer Victor Kruse, Alpha '13, died June 9th, 1958, age 69. He was born in Minneapolis, Minn., and graduated at the University of Minnesota as a civil engineer, receiving his B. S. in 1913, and his C. E. in 1914. After graduating, he joined the staff of a firm of consulting engineers in St. Paul until 1917 when he became an officer in the army for the duration of World War I. After the war he returned to St. Paul for a brief period and then joined the staff of the United Verde Copper Co., in Jerome, Arizona. When United Verde was purchased by the Phelps-Dodge Corp., he became chief engineer with headquarters in Douglas, Arizona. He retired three years ago but was retained as a consultant by the company in order to complete mine plants and power houses in the Douglas district. In the spring of 1958 he went to Minnesota to attend the 45th class reunion at the university. He died of a

heart attack on a fishing trip to Clamshell Lake. Surviving are his wife, Olive; a daughter-in-law, Mrs. H. Richard Jones; two grand-children; and two sisters living in California. He was also a member of Tau Beta Pi. The family home was at 1530 12th St., Douglas, Arizona.

Springs, Arizona. He joined the armed forces in 1941 and served as a captain overseas during World War II. Surviving are his parents in Yuma and his wife, living in Tucson.

— **Marcus Amadeus Monaghan, Jr.**, Delta '24, died in Maple, Florida, on July 8, 1958. He was born in Cleveland and graduated as a mechanical engineer from Case Institute of Technology in 1924. He joined Mondie Forge Co. of Cleveland, which had been founded by his father, immediately after his graduation and was president of that company at the time of his death in Florida, although he had retired from active work in 1955. He was also vice president and a director of the Cumberland Petroleum Co., with offices in the Hanna Bldg. Surviving are his widow, his mother, two sons and four daughters. The family home was at 1526 West Clifton Bld, Lakewood, Ohio.

— **Ivor Pounds, Jr.**, Iota '49. In the spring issue of THE GEAR Ivor Pounds was confused with Ivan L. Bounds. Both Brothers were the class of '49, Iota Chapter. The obituary had reference to Ivor Pounds. Our apologies to Brother Ivan L. Bounds.

— **Timothy Henry Murphy**, Pi '23, died November 16, 1957. He was born on May 18, 1903, in Lynchburg, Va., and graduated as an electrical engineer at the University of Virginia in 1923. After graduation he joined the Westinghouse Student Course. He served as application engineer, Railway Division, of the general engineering department from 1924 to 1932 and as project engineer, diesel engine department from 1932 to 1936. From 1936 to 1948 he was with the American Locomotive Dept. Then he worked for the G. A. Holder Co. and returned to Westinghouse in 1949 as transportation service supervisor. He was also a member of Tau Beta Pi. He was a charter member of Pi Chapter of Theta Tau.

— **Roswell Woodworth Prouty**, Alpha '12, died in Pasadena, California on January 9, 1958. He was born in Grand Forks, N. D., on March 21, 1890, the son of Emery M. and Emma J. Dunham Prouty and received his E. M. degree at the University of Minnesota in 1912. From 1912 to 1914 he was with the Oliver Mining Co. in Ely, Minnesota, and then became assistant geologist for the Detroit Copper Co., in Morenci, Arizona, and in 1916 became engineer for the Old Dominion Copper Co. Then he joined the staff of the Phelps-Dodge Co. and was chief geologist of the Copper Queen branch until 1923. In 1923 he became engineer for the Riverside Portland Cement Co. until 1926 and was consulting engineer until 1930. From 1930 until 1932 he was consulting engineer for the Non-Ferrous Industry of the U. S. S. R. in Moscow and acted as consulting engineer from 1932 to 1940 when he became foreign mine specialist for the U. S. Bureau of Mines until 1942. Then, for eight years, he was mineral attache for the U. S. Embassy in Mexico City. Then he was again with the U. S. Bureau of Mines in Boston, but retired a few years ago because of poor health and was in failing health from 1955 to the date of his death. He married Florence G. Morrison of Chicago, Ill., May 16, 1916, who survives together with a daughter, Velma, attached to the U. S. Embassy in Tehran, Iran; a daughter, Emy Jean Maynard of Bakersfield, California; and a son, Mason Prouty of Manhattan Beach, California. Also surviving is a sister, Velma James, of Bakersfield, California. He was a fine person held in high regard by the profession.

— **George William Peters**, Chi '31, died December 8, 1956. He was born on October 8, 1907 at Fort Gay, West Virginia, the son of Mr. and Mrs. John B. Peters, now living in Yuma, Arizona. He attended Marshall College at Huntington, West Virginia, until his parents moved to Arizona. He graduated as a mining engineer from the University of Arizona in 1931. After graduation he was with the Harvard-Cornell Meteor Expedition at Flagstaff, Arizona, for several years, and then was mill superintendent at the Humbug Mine, Hot

— **Frederick C. Teske, Jr.**, Alpha '27, died October 6, 1958 in Minneapolis, Minnesota. He was born in St. Paul, Minnesota, on February 28, 1905. He

received his bachelor's degree in Civil engineering cum laude from the University of Minnesota in 1927 and a master's degree in engineering from Yale University in 1930. While at Yale he held the Strathcona Fellowship in Transportation. After graduating from Minnesota, he joined the U. S. Engineers office in St. Paul, Minnesota, for a short period and then worked for the Northern Pacific Railway Co. (Bridge Department), also in St. Paul. Upon receiving his master's degree, he went to work for the Soo Line Railroad (Bridge Department) in Minneapolis, Minnesota. In 1932 he became deputy assessor, City of Minneapolis, a post which he held until 1936, when he rejoined the Soo Line Railroad. In 1938 he joined the faculty of the University of Minnesota as an assistant professor in the engineering college and was on the faculty until 1944 when he again returned to the Soo Line, where he remained until his death. He served the Railroad successively as assistant engineer, chief draftsman, and assistant to the chief engineer. He was a member of the "M" Club of the University of Minnesota, the Minnesota Society of Professional Engineers, American Railroad Engineers Association, and the Northwest Maintenance of Way Club. He was a member of the Board of Directors of the Theta Tau Association of Minnesota for approximately twenty years. Surviving are his wife, Minnette; a daughter, Helen; a son, Walter; his mother, Mrs. Mary Teske, Gardena, California, and a brother, Douglas, Farmington, Minnesota.

— William R. Tighe, Rho '29, died on May 19, 1957. He was born in Asheville, N. C. the son of Mr. and Mrs. R. J. Tighe. He graduated as a civil engineer from North Carolina State College in 1929, and before going to college he worked as a transit man for the Tennessee Coal, Iron and Railroad Co. in Fairfield, Alabama. After graduation he entered the employ of the Standard Oil Co., of New Jersey, and at the time of his death was district sales manager in Baltimore, Md. He married the former Carolina Yancey of Marion, N. C. before he went to college. Surviving are his wife and two sons, William Y. and Richard R. The family home was at 4408 Wickfield Road, Baltimore, Md.

— Everett John Wendell, Iota '23, died January 31, 1958. He was buried in Peoria, Illinois. He graduated as a mining engineer at the Missouri School of Mines and Metallurgy but after graduation entered the service of the Highway Department of the State of Illinois. At the time of his death he was county highway engineer and a member of the Board of Registration of Engineers of the State of Illinois. The family home was at 126 Oak Park, Peoria, Ill.

— Herbert Sidney West, Alpha '21, died March 21, 1958. He was born in Morristown, Minn., May 6, 1896 and graduated as a metallurgical engineer at the University of Minnesota in 1921. After graduation he worked for a time for the Bunker Hill & Sullivan Mining Co., in Idaho, and then joined the Civil Engineering Dept. of the Public Works Dept. of the City of St. Paul in Minnesota. At the time of his death he was assistant chief engineer of the department and had been with the department since 1923. He married Myrtle E. Johnson of St. Paul, on May 22, 1922, who survives him together with two sons and two daughters. He was also a member of Tau Beta Pi. The family home was at 1869 Juliet Ave., St. Paul, Minnesota. In 1955 he was honored by the American Public Works Association.

— William Ross Wilson, Gamma '31, E. M., died March 29, 1958, in Castro Valley, California, age 57. He was born October 11, 1899, in Walton, Kansas, but his family moved to Canon City, Colorado, soon thereafter and he attended grade and high school in Canon City. He joined the staff of the Atlas Powder Co. in 1933, and was manager of the Denver office until 1939, when he was transferred to the Salt Lake City office and in 1950 went to the San Francisco division of the firm where he remained until the time of his death. He married Isabel O'Neill of Canon City, Colorado in 1929. In addition to his wife, he is survived by a daughter, Mrs. Grace Thoronly, now in Germany, two brothers, James L. and Merle, both of Canon City; and two sisters, Mrs. Grace Ward of Prescott, Arizona, and Mrs. Isa Coon of Laramie, Wyoming.

Editorials

THIS IS A BIG ONE!

The Twenty-Second Biennial Convention will have to make some important decisions. Ordinarily, conventions worry about dues increases, new pledge manuals, elections of officers, and similar business. The last two or three conventions have seen increasing concern over the membership requirements. Certain of the chapters have been forced by their university administrations to work for the abolishment of any restrictive clauses in fraternity constitutions, and some have even been given the deadline of 1960 for the accomplishment of this requirement.

The fraternity is confronted with a dilemma which apparently some university administrators do not understand. In their zeal to favor the underprivileged, they resort to dictatorial methods which ignore the freedom of individuals to choose their close associates and friends. Thus, while many fraternity men are liberal in their outlook and would be willing to take a person on his individual merits, they resent being told that they *have* to take any and all to demonstrate their democratic sympathies. This is just as democratic as forcing an unwilling laborer to join a union if he wants to work. True democracy permits the individual entire freedom of choice so long as he does nothing that is detrimental to others or which jeopardizes his country's security.

Theta Tau has objected to coercion by university administrations at previous conventions. On the other

hand, many of its individual members feel that the membership requirement could well be liberalized. In fact, one chapter unwilling to abide by the decision of the majority has withdrawn from the fraternity to demonstrate its belief in this course.

It is known that fraternity expansion is impossible in most northern schools if the fraternity has a restrictive clause—and perhaps the opposite is true in the southern schools.

The delegates to the Twenty-Second Biennial Convention must weigh these matters, assess the temper of the times, and do the best thing for the fraternity.

JWH

HAVE YOU A HOBBY?

Professional men of all classes are prone to get so interested in their special work that frequently they neglect other activities so desirable for a well rounded life. This is a malady not usually found in the student, rather it is most likely to develop at the approach to middle age. The best antidote is a hobby, or better yet, several hobbies.

After the age when participation in football, basketball and baseball becomes too strenuous, most of us can find pleasure and healthful exercise in volleyball, handball, tennis or golf. Then too, hunting and fishing are always popular sports for men of all ages. Of late the many forms of boating have become extremely popular. Others find outlets for particular skills and talents in photography,

wood working, ceramics or other kindred activities.

All this is preamble to suggesting that Theta Tau needs more of its alumni to take a deeper interest in its active chapters and in its alumni associations and in its national affairs. There are many compensations for those who do so. The editors of this magazine, after nearly thirty years of riding this hobby can testify to that. So can our present and past national officers; so can our faculty advisers. Brother Ed Thoma, Adviser to Phi Chapter put it well in the latest issue of "The Link", Phi's News Letter when he wrote: "The most rewarding things about college teaching and campus activities for persons like Al Spalding and myself are the associations with the students. Al and I have been doubly rewarded this year by the fine gang of fellows holding down the good name of Theta Tau. They are continuing their surge to the top in the most important facet of college life, that of academic work. One thing about the gang—they have 'spirit' and are not satisfied with an 'also-ran' name."

Yes, if you would like to find a challenging and an ever-new hobby, volunteer to help your nearest active chapter or get busy in your own alumni association. The friendships you will develop and the pleasures you will derive from assisting our

younger brothers will prove to be a rich return on your investment of time and effort.

P.L.M.

CONGRATULATIONS, DEX!

Our Fraternity is blessed with many leaders in the engineering world. We are always proud of each brother's successes and pleased to take note of them. At this time, however, we especially rejoice in the recognition and advancement given to our Grand Regent, A. Dexter Hinckley by the Illuminating Engineering Society when that organization recently made him their Managing Director, a new post, as reported elsewhere in this issue.

NEW CHAPTER ADVISERS

There have been changes in chapter advisers this fall at Gamma, Omicron and Psi Chapters. At Gamma in Golden, Colorado, Dr. Rudy C. Epis of the Department of Geology will serve. At Omicron in Iowa City, Iowa, Professor J. W. Howe is serving temporarily in the vacancy left when Brother Don Metzler became associate dean of engineering at Kansas University. At Psi in Butte, Montana, Professor Doug Harnish, chairman of the Petroleum Engineering Department has accepted the position of adviser.

"Ethics," the man told his son, "is vital to everyday living. For example, today an old friend paid me back a loan with a new ten dollar bill. As he was leaving I discovered he'd given me two bills stuck together. Immediately the question arose—should I tell you mother?"

Father: Your young man approached me and asked for your hand and I consented.

Daughter: But I don't wish to leave mother.

Father: Such feeling displayed by a child is admirable. Take your mother with you.

Alumni Notes

ALPHA

- Buck, Fred W. '09, active in civic affairs for over half a century was recently named the 34th member of the Duluth Hall of Fame. He retired December 31 as president of a Duluth firm.
- Dopp, Lawrence '17, has retired as superintendent for the Oliver Mining Co. Div. of U.S. Steel and lives in Eveleth, Minn.
- Sommermeier, I.E. '31, vice president in charge of flying for United Air Lines Inc. and gets mail at Stapleton Airfield, Denver 7, Colo.
- St. Vincent, Frank D. '40, is general supt. of the International Iron Co., Beverly, Ohio.

BETA

- Burt, Curtis F. '12, after many years in Mexico is now living at 1240 North Roberts St., Tucson, Arizona.
- Rashleigh, Charles J. '14, is with Calmar Steamship Co., 25 Broadway, New York City.
- Koepel, Norbert F. '18, is now vice president of Chile Exploration Co., and Andes Copper Mining Co., in Chile, South America.
- Weed, H. Carroll '25, is now general manager of Inspiration Consolidated Copper Co., and can be addressed at P.O. Box 84, Inspiration, Arizona.
- Ambrosiani, F. P. '38, is with Jeffrey Mfg. Co., 110 Robert St. Beskey, West Virginia.
- Carson, William H. '38, is assistant sales manager with Goodman Mfg. Co. and lives in La Grange, Illinois.
- Klenner, R. Paul '39, is living in Rocky River, Ohio.
- Moberg, Wesley O. '41, Lt. Col. USA, has been assigned to the Chicago Ordnance District and is taking some graduate work at the University of Chicago.
- Swenson Jr., George W. '44, is professor of electrical engineering at the University of Illinois in Urbana, Ill.
- Spooner, Kay '50, is a partner in a structural consultant firm in Benton Harbor, Michigan.
- Storm, Robert W. '51, reports the birth of a son, Daniel Robert, on July 9, 1958.
- Maki, Toivo M. '52, is assistant shift foreman for Pickand Mather Erie Mining Co., Hoyt Lakes operation where he

lives with family. Hoyt Lakes is in Minnesota.

Heilalla, Gary A. '56, Lt. USAF, is at Webb Air Force Base in Texas.

Johnson Peter J. '58, is assistant city engineer for Virginia, Minn.

GAMMA

- Luke, Russell P. '14, is at 1716 Coronado Road, Phoenix, Arizona.
- Worth, Lee K. '17, lives at The Tulsa Hotel, Room 441, and also gets mail at P.O. Box 1859, Tulsa 1, Okla.
- Riddle, Donald D. '18, Col. USA. (ret) is at 25 Washington Ave., Savannah, Georgia.
- White, Roger F. '18, now lives at 1025 Wright St., Cameo Park, Santa Ana, California.
- Lynch, Victor J. '20 now lives at 3814 Woodlake Drive, Knoxville, Tenn.
- Delahunty, Frank E. '25, is now at 29 Lower Crescent Ave, Sausalito, Calif.
- Parkinson, Gerald H. '25, is general manager of Rhodesia Chrome Mines Ltd. Selukwe, Southern Rhodesia, South Africa.
- Brown, Leroy T. '26, general manager and director of AMVECO, C.A. can be addressed at Tinaquillo, Cojedes, Venezuela. This is the Asbestos Division of World Commerce. Corp. S.A., 445 Park Ave., New York City.
- Bunte, Arnold S. '26, is now making his home on Zia Road, Santa Fe, New Mexico. He is a petroleum geologist and engineer.
- Gibson, Fred Daniel '26, is president of Pacific Engineering & Production Co., P.O. Box 797, Henderson, Nevada.
- Donnelly, A.S. '28, now gets mail at 215 Market St. San Francisco 5 Calif.
- Cline, W.W. '29, is with Sun Drilling Co. and mail should be sent to 2975 Wilshire Blvd., Los Angeles, 5, Calif.
- Thorley, Ira O. Jr. '29, has moved to 1007 Forest Glen Road Silver Spring, Md.
- Griswold, Dan H. '30, is now at 6656 SW Miles Court, Tigard 23, Ore.
- Scheble, Max C. '30, is at 48 Alameda de las Pulgas, Atherton, Cal.
- Towle, Chas. A. Jr. '34, can be addressed at Point View Place, Mountain Lakes, New Jersey.
- Couch, Robert G. '36, can be addressed c/o Mobile Oil Co. Del Peru, Apt. 2887, Lima, Peru, S.A.

- Baker, Thomas C. '39, is now at 1380 Eatwood Ave., Highland Park, Ill.
- Hennebach, Ralph E. '41, with A.S. & R. Co. at 120 Broadway New York 5, N.Y.
- Wood, Arthur '41, is an engineer with Western Aggregates Inc. This is a division of Ideal Cement Co.
- Shelton, Bert J. '44 can now be addressed at Apt. 5151, Estafeta J. Arosemena, Panama, Republic of Panama.
- McQuinn, W. Jones '46, has a new address at 678 Coral St., Los Altos, Calif.
- Campbell, Charles W. '47, is with American Smelting & Refining Co., Apartado Bis 38, Mexico, D.F.
- Rau, Earl L. '47 is at 594 East Oak St., Tucson, Ariz.
- Seeton, Frank A. '47, is now at 2611, Krameria St., Denver 7, Colo.
- Spain, William F. '47, has left Bishop, Calif., and can now be addressed c/o Wah Chang, Australia, Pty. Ltd., Eleventh Floor, 100 Collins St. Melbourne, Australia.
- Tiehen, John A. '47, is with the Planet Petroleum Consulting Engineers at 1715 York St., Denver, Colo.
- Seerley, John J. '48, gets mail at Box 583, Glendora, Calif.
- Freeman Jr. Clarence F. '49, is now with Kewanee Oil Co., 1401 South Boulder, Tulsa, Okla.
- Forbes, Walter S. '50, lives at 2000 Lynnwood Place, Casper, Wyo.
- Warren, J.N. '50, is now at 4931 Wigton Drive, Houston 35, Texas.
- Titley, Spencer R. '51, has a new mailing address at 3816 Calle, Altar, Tucson, Arizona.
- Brown, David L. '52, gets mail at 3405 South Winona Court, Denver, Colo.
- Chuber, Stewart '52, is at 2401 Leslie Lane, Sacramento 21, Calif.
- Lindquist, John T. '52, now is addressed at P.O. Box 87, Lewiston, Calif.
- McGregor Jr., Wallace '52, received an M.B.A. at Harvard and his present address is Box 1933, Grand Junction, Colo.
- Arnold, Wallace S. '53, is field supervisor for the Western Co. now lives at 627 Whipple, Canon City, Colo.
- Banks, Richard B. '53, lives at 1804 Doran Drive, Odessa, Texas.
- Burbeau Jr., William P. '53, now is at Opelousa, La.
- Hieger, Dale R. '53, can be addressed c/o Sun Oil Co., Drawer H, Premont, Texas.
- Bergtrom, Theodore R. '54, associate engineer with the Boeing Aircraft Co. gets mail at 3727-136th St. SE, Bellevue, Wash.
- Endacott, James H. '54, now lives at Apt. 8, 4822 Merwin, Houston, Texas.
- Lusa, George '54, has a new address at 72 Thorpe Drive, Dayton 29, Ohio.
- Whitescarver, Loren H. '55, is with Stanolind Oil & Gas Co., P.O. Box 3092 Houston, Texas.
- Blomberg, John R. '56, is now out of the army and his mailing address is Box 470, Midland, Texas.
- Lewis, Ronald L. '56, Lt. USA, has a new address as 562 Engr. Co. (C), A.P.O. 949, Seattle, Wash.
- Meyer, Marion J. '56, lives at 3002 Glenwood Place, Bakersfield, Calif.
- Topp, William John '56, can now be reached at Box 431, Effingham, Ill.
- Hinrichs, Chas. F. '57, is with Phillips Petroleum Co., Box 1217, Ozona, Texas.
- Lesser, Paul '57, is on active duty at Ft. Belvoir, Va. His permanent address is 600 South Wisconsin, Mitchell, S.D.
- Ratliff, Buddy D. '57, is now at 333 Virginia, Ponca City, Okla.
- Steck, Robert B. '57, moved to 102 1st Ave., Belmar, New Jersey.
- Threewith, Charles R. '57, is with the Pure Oil Co., c/o Box 191, 725 Carroll, Ft. Morgan, Colo.

EPSILON

- Suman, John R. '12, has been awarded the John Fritz Medal by four major national engineering organization. He is a former director, now retired, of Standard Oil Co. of New Jersey and of the Humble Oil & Refining Co., Houston, Texas.
- Rott, Edward H. '25, has established the Venezuelan Caribbean, SA with headquarters in Caracas to provide manufacturing representation service for a limited group of manufacturers.
- Eastman DuBois '28, is director of research at Texaco's Montebello, California, laboratory.
- Goldsmith, Louis '32, is general manager of the manufacturing technical departments of Shell Oil Co. in New York City, and lives in Bronxville, N.Y.
- Reynolds, Sargent '35, is doing geological work for Bolsa Chica Oil in the interior of Turkey. His son is a geology student at the University of California.
- Rowland, David A. '52, is now an instructor at the Colorado School of Mines, in Golden, Colo. He received his E.M. there in 1949.

ZETA

- Johnston, Fred E. '12, is retired and may be reached at Sallisaw, Okla.
- Seger, Ralph L., '14, is vice-president of

- Fidelity Investment Co. and lives at 2256 Hope St., Topeka, Kan.
- Bliss, John L., '16, is currently president of Universal Filter Co. and lives at 12 Windsor Lane, Kirkwood 22, Mo. He and his wife spent three months in Europe last year.
- Vauter, Jamison., '16, Past Grand Regent of Theta Tau, is living at 614 W. Washington St., in Urbana, Illinois, where he is Professor Emeritus of Civil Engineering at the University of Illinois. He is now an associate with Clark, Daily and Dietz, Consulting Engineers.
- Orton, James M., '17, is a sanitary engineer for the city of Detroit. His address is 18920 Sorrento, Detroit 35, Mich.
- Wakenhut, C. S., '17, is an engineer for Wilson and Co., Engineers, and is living at 201 S. 12th., Salina, Kan.
- Reid, Theo. C., '18, after returning from French Morocco, has retired from engineering and now lives at 3887 12th St., Sacramento 22, Calif.
- Jakosky, J. Jay., '20, is presently president of International Geophysics, Inc., and lives at 2500 West Coast Hwy., Newport, Calif.
- McGee, Richard R., '21, is an application engineer for General Electric Co. and lives in New Britain, Conn.
- Wahlstedt, John R., '21, is vice-president of Waddell and Read, Inc. He may be reached at 8445 Linden Lane, Prairie, Village, Kan.
- Bunn, John W., '21, associate professor of physical education at Colorado State College. His mailing address is Colorado State College, Greeley, Colorado.
- Perkins, Lucius J., '21, is manager of lamp sales with the General Electric Supply Division of G. E. His address is 140 N. Canton View Dr., Los Angeles 49, Calif.
- Brehm, William W., '23, is a designer with Krause Corporation. His address is 1704 Carney Blvd., Hutchinson, Kan.
- Lawrence, Ray E., '25, is with the engineering staff at Black and Veach. He may be reached at 2708 W. 66 St., Kansas City 15, Mo.
- Benz, George R., '25, is manager of the engineering department of Phillips Petroleum Co., and may be reached at 1712 Cherokee Pl., Bartlesville, Okla.
- Boggs, Robert L., '27, is vice president of Gulf Oil Corporation and lives at 861 Valleyview Rd., Pittsburgh 16, Pa.
- Patterson, William L., '27, is principal engineer for Black and Veach, Consulting Engineers. His address is 631 W. 66th Terrace, Kansas City, Mo.
- Feil, Louis G., '28, is presently treasurer of the Zeta House Corporation. He is Chief of the Engineering Division of the Kansas City District of the Corps of Engineers. His home is at 4207 West 69th St., Prairie Village, Kan.
- Hanson, Loring O., '28, is professor of applied mechanics at the University of Wichita. He may be reached at 1528 Yale Blvd., Wichita, Kan.
- Hood, Manley J., '29, is technical assistant to the director for N. A. C. A. His address is 10460 Alberts Worth Lane, Los Altos, Calif.
- Muller, Lloyd E., '29, is director of engineering for the Buick Motor Division. His address is 1301 Maxine Ave., Flint, 3, Mich.
- Rush, Elmer H., '29, is a development engineer with the Products Pipeline Department of Shell Oil Co. His address is 5619 Enright Dr., Indianapolis, Ind.
- Tucker, Lewis R., '30, is a geophysicist for Socony Mobil. His address is 150 E. 42nd St., Room 3046, New York, N. Y.
- Benz, P. S., '31, is currently with Phillips Petroleum Co., and may be reached at 2000 Dewey, Bartlesville, Okla.
- Bonjour, D. E., '32, may be reached at 13146 W. 91st Terrace, Lenexa, Kan. He is branch chief, Construction Division, U. S. Army Corps of Engineers.
- Coffman, Irving L., '32, is with Phillips Petroleum Co. His son, Don, is now a pledge of Zeta Chapter. His address is 3508 Woodland, Bartlesville, Okla.
- Shaad, Paul E., '33, lives in Sacramento, Calif., and is working for General Electric Co.
- Dwyer, T. Paul, '34, is partner in Dwyer and Kite Consulting Engineers. His address is 5531 Roe Blvd., Mission, Kan.
- Stark, Donald A., '34, is president of Fluid Controls, Inc., Fluid Regulators Corp. He may be reached at 2470 Mentor Ave., Mentor, Ohio.
- Miller, Howard E., '35, is sales and application engineer with Harold R. Swanton, Inc. His address is 1101 Nithsdale Rd., Pasadena, Calif.
- Maloney, J. O., '36, is chapter adviser to Zeta. His is professor of chemical engineering at the University of Kansas and lives at 124 Lindley, Lawrence, Kan.
- Russell, R. A., '37, is assistant principal engineer with Black and Veach. His address is 5000 West 68th Terrace, Mission, Kan.
- Guthrie, Guy S., '38, is owner of Guy S. Guthrie, Consulting Engineers and lives at 1003 Vincent Lane, Wichita 14, Kan.
- Rogers, Raymond M., '38, has been very busy while in charge of construction of the ten million dollar amusement park at Santa Monica, Calif. His normal

- position is superintendent, Los Angeles Turf Club. His mailing address is % Los Angeles Turf Club, Santa Anita, Arcadia, Calif.
- Smithmeyer, Fred C., '38, is presently an instructor in mining and metallurgical Engineering at Kansas University. His Address is 2130 Owens Lane, Lawrence, Kan.
- May A. G., '38, is president of the house board corporation of Zeta Chapter. He is a partner with Lutz and May Consulting Engineers and may be reached at 5830 Fontana Dr., Mission, Kan.
- Janzen, Herman A., '39, is the first lifetime member of the Zeta Cogs. His address is 619 Ann, Kansas City 1, Kan.
- Smithmeyer, Louis P., '39, is facilities coordinator engineer, Electronics Science Section, Boeing Airplane Co. His address is 14340 22nd Ave., S. W., Seattle 66, Wash.
- Funkhouser, D. L., '40, is project engineer for design and construction of power plants, J. F. Pritchard and Co. His address is 7736 Aberdeen Rd., Kansas City 15, Mo.
- Thudium, F. N., '40, and wife have four children. He is an engineer with Con-vair. Brother Thudium's address is 6312 Connie Dr., San Diego, Calif.
- Dean, Gerald D., '43, is with the Army Signal Corps. His address is Major G. E. Dean, Signal Office, H. Q. AFPE/8A (Rear), APO 343, San Francisco, Calif.
- Rohler, C. W., '44, is assistant manager, Ponca City Refinery, Cities Service Oil Co. His address is 1505 Monument Rd., Ponca City, Okla.
- Shrake, Charles D., '46, is senior installation engineer, Engine Division, Caterpillar Tractor Co. His address is 116 West Hines, Peoria Heights, Ill.
- Smith, Robert L., '47, is executive secretary, Kansas Water Resources Board. His address is 1110 Seabrook, Topeka, Kan.
- Meredith, Robert A., '48, is an engineer with Lutz and May Consulting Engineers and may be reached at 6946 Birch, Prairie Village 15, Kan.
- Pennington, Bruce R., '49, is a mechanical engineer with Lutz and May Consulting Engineers. His home address is 4815 W. 55, Mission, Kan.
- Van Benthem, Francis W., '49, gets mail at 800 Tulip St., Liverpool, N. Y.
- Anschutz, Glenn, '50, is engineer of aerial surveys and photogrammetry, Kansas Highway Commission. Brother Anschutz writes he has two boys, Kent and Mark. He may be reached at 730 Wayne, Topeka, Kan.
- Rumpf, Richard G., '50, presently serves as assistant senior engineer with Bendix Corporation. His present address is 7601 Sin-A-Bar Rd., Kansas City 29, Mo.
- Kipp, John Edward, '51, and Miss Mary Carolee Lackey were married on May 9, 1958, and are living at 1615 Anderson, Manhattan, Kan.
- Carroll Norman L., '52, is manufacturing engineer with Westinghouse Atomic Fuel Dept. He may be reached at Box No. 3, Bakerstown, Pa.
- Pope, Robert E., '52, is currently on loan from the engineering department of Mallinckrodt Chemical Works to the Silicon Pilot Plant. Brother Pope is now serving as Grand Scribe.
- Rae, Bill E., '52, is now with the Pan American Petroleum Co. in Vivian, La., where he can be addressed at 415 SE Front St.
- Richey, William G., '52, is a partner with West, Richey, Warner. He may be reached at 5531 Barton Lane, Shawnee, Kan.
- Beauchamp, Glen., '53, reports the birth of a son, Curtis Alan, in Norfolk, Va.
- Hall, James R., '54, is with Kansas City Structural Steel. He has two sons, David and Gary. His address is 10813 W. 48 Terrace, Shawnee, Kan.
- Fine, Donald, '55, is employed as a research chemical engineer with the Texas Co. and lives at 2301 Fourth St., Port Arthur, Texas.
- Holyfield G. W., '55, is a Lt. with the U. S. Navy. His address is 1013 Scott Court, Honolulu 18, Hawaii.
- Trott, B. Dale, '55, was married to Betty Joyce Rice last June. He is at the Knolls Atomic Lab for G. E. and lives at Apt 9-D2, Sheridan Village, Schenectady, N. Y.
- Franklin, William E., '56, is Southwestern Regional Representative for Theta Tau. He is presently with Cities Service Oil Co. His address is 1217 1/2 South Johnstone, Bartlesville, Okla.
- Gates, Norman B., '56, is a lieutenant in the Corps of Engineers, U. S. Army and lives at 1339 High, Topeka, Kan.
- Anderson, Benny A., '57, can be addressed U. S. S. George (DE 697) % Fleet Post Office, San Francisco, Calif.
- Ochs, Jay D., '57, is at Red Stone Arsenal with the Ordnance Guided Missile School in the Surface to Air Division. His address is 2/Lt, Box 236, OGMS, Redstone Arsenal, Alabama.

ETA

- Dean, Kemerton, '16, heads K. Dean & Co. Cotton Exchange Bldg. Houston, Texas.

Lawason, Lev, '16, lives at Palo Verdes Estates, California.

Young, Vertrees, '16, is president of the Gaylord Division of Crown Zellerbach Corp. in Bogalusa, La.

Barney, Fred W., '19, has a new address at Kanuga Road, Route #3 Box 235, Henderson, N.C.

Doten, Everett F., '19, is in Missile operations of the Chrysler Corp. in Detroit, Mich.

Gatewood, A. R., '21, is with the American Bureau of Shipping, 45 Broad St., New York 4, N.Y.

Owens, George, '21, now lives at Vero Beach, Florida.

Bainbridge, William W., '22, now receives mail at 4 Manning Circle, Pelham, New York.

Blackall, Fred, '22, is president of the Taft, Peirce Mfg. Co. Woonsocket, R.I.

Gage, Frank D., '22, is at 125 East 39th St. Brooklyn 3, N.Y.

Smith, Mace, '29, is with Chicago Bridge & Iron Co., Birmingham, Ala.

Lissak, Ormond, '30, is with Kaiser Engineers in Oakland, Calif. and lives in Los Altos, 10795 Loyola Drive.

THETA

Alden, John, '15, has retired to his farm after 40 years with Ohio Alloy Steel Mills, Canton, Ohio.

Brinkerhoff, Chas M., '25, is the new president of the Anaconda Co., one of the major producers of copper.

Kuhback, Charles M., '40, is now supervisor of the Engineering Services Department at the Texaco Research Center, Beacon, New York.

Kiskaddon, Jr. Charles G., '46, is now in Pittsburgh with Alcoa.

Brockmeier, Theodore W., '48, is with National Biscuit Co. and lives in Ramsey, New Jersey.

Crandall Jr., William M., '48, is Plant Engineer for Union Carbide's calcium carbide plant in Sault Ste. Marie, Mich.

DeCillis, Joseph L., '48, is Director of Marketing Research for Charles Pfizer & Co., New York City.

Glick, William H., '48, is operations superintendent for Hercules Powder Co. at the Harbor Beach Plant and the family home is in Harbor Beach, Michigan.

Lubold, H. Justin, '48, is senior engineer in the Facilities Planning Dept. of the Corning Glass Works.

Rice, Raymond J., '48, reports the birth of a daughter, Virginia Lee, on March 5, 1958.

Kienzle, Henry F., '50, is on the staff of the Bettis Plant which Westinghouse

operates for the Atomic Energy Commission.

Guarino, Nicholas J., '51, reports the birth of a son, John Nicholas.

Litt, Mitchell, '54, is on the staff of the Esso Research & Engineering Co., in Linden, New Jersey.

Schulkind, Donald, '54, received his M.S. in electrical engineering at Brooklyn Polytechnic Institute in June 1957.

Freeman, Jack B., '55, is now on the staff of the White Metal Rolling & Stamping Corp. as a metallurgical sales engineer.

Jicha, Kenneth P., '55, is working in the Technical Department of the Bayway Refinery of the Esso Standard Oil Co., and home is in East Brunswick, N. J. He reports the birth of a son, David, November 26, 1957.

Kastriner, Lawrence G., '55, is production supervisor with the Shawinigan Resins Corp. He was married in October 1957 to Mary Tydor and they are living in Springfield, Mass.

Broadwin, Alan, '57, is studying for his M.S. at Stevens Tech.

IOTA

Stifel, Carl, '14, has been elected President of the St. Louis Convention & Publicity Bureau.

Murphy, Raymond E., '23, is professor of economic geography at Clark University, Worcester, Mass.

Blake, Phillip Leroy, '24, is superintendent of the Western Regional Laboratory, Agricultural Research Service, USA, and lives at 597 The Alameda, Berkeley, California.

Thomas, Harold Scott, '26, is a consultant and lives at 2101 East Water, Tucson, Arizona.

Thatcher, E. Fusz, '27, has been elected a director of the Municipal Engineers & Surveyors of Greater St. Louis, Mo.

Johnson, Robert W., '35, is assistant construction engineer, Illinois Division of Highways #5, Paris, Illinois, and lives there at 220 East Court St.

Schwalbert, W. H., '36, is superintendent of transmission and distribution, Toledo Edison Co. Toledo, Ohio.

Mathews, Ralph A., '46, is with Monsanto Chemical Co., St. Louis, Mo., and resides at 5229 Nottingham Ave.

Meyer, Donald L., '46, is assistant professor of physics, at the University of Michigan, Ann Arbor, Mich.

Kallmeyer, M. F., '47, is a special design engineer for Emerson Electric Co. and lives at 9476 Arban Drive, St. Louis 23, Mo.

Ranes, James W., '47, address is 369 Centre St., Pembroke, Ontario, Canada.

Robbins, Irvin D., '48, is with Morrison-Knudson del Paraguay, Casilla 1110, Asuncion, Paraguay, S.A.

Vark, William A., '50, is with Bethlehem Supply Co. and lives at 701 N Wilson Ave., Metairie, La.

Pearson, Walter E., '51, is with Illinois Terminal Ry., St. Louis, Mo. and lives at 3145 Aubrey Ave., Granite City, Ill.

Powell, Joe R., '51, is with Westinghouse Electric Corp. in St. Louis, and lives at 825 Pimlico Drive, Florissant Mo.

Schuchart, Robert E., '51, is with Carl Bajor Co., and lives at 4123 Davis St., St. Louis, Mo.

Groteke, Daniel E., '54, is at 4593 Duck Lake, Rt. 2, Albion, Mich.

Bogue, Donald R., '55, is with the Delco Remy Division, General Motor Corp. and lives at Tower Apts., 11-E, Anderson, Indiana.

MU

DeFazio, P. G., '35, is Director of Engineering for the Feed Materials Production Center of the Atomic Energy Commission, a plant contract-operated by the National Lead Co. with which he has been associated since 1945.

NU

Kaufman, Walter F., '24, is general manager of the New Product planning program of the Armstrong Cork Co.

Kolk, Harry D., '32, lives at 36 Kenwood Rd., Garden City, New York.

Hunter, Carlton E., '34, is on the faculty of the School of Engineering of the University of Massachusetts Amherst, Mass. He is assistant professor of mechanical engineering. He was formerly with Convair Cons. Vultee Aircraft Corp. in Fort Worth, Texas.

Ashbaugh, Donald L., '35, is at 536 McKinley St., Gary, Ind.

Spahr, Leland L., '37, is serving his second term as secretary of the Seattle section of the A.S.C.E. He is engineer-manager of the Concrete Products Association.

Kramer, Lloyd B., '40, has been awarded the highest honor by Westinghouse Electric Corp. for his work in building America's Atomic submarines.

O'Brien, John Terrance., '42, is now in private practice as a consulting engineer and his offices are at 23 East Beau St., Washington, Pa.

Reed, George O. N., '46, reports the birth of George O. N. III on October 1, 1957, and home is at 578 Bouquin Circle, Oil City, Pa.

Mellot, Cloyd R., '47, is a member of the law firm Eckert, Seamans & Cherin in the new Porter Bldg. in Pittsburgh, Pa.

Weber, Karl B., '47, Capt. USAF is in Santa Marie, Azores, where he is in charge of building new airfields.

Hall, Harold G., '48, is general manager of Standard Coil & Mfg. Co. in Pittsburgh, Pa.

Hoffman Jr., Quentin J., '48, is at 241 12th Ave., Sea Cliff, N.Y.

Schoenberger, Robert S., '48, was married recently and home is at 116 Cooper Drive, New Rochelle, N.Y. He is employed in the purchasing dept. of the Union Carbide & Carbon Corp.

Paustian, Robert J., '49, lives at 1018 Nottingham St., Grosse Pointe Park, 30, Mich.

OMICRON

Sanger, Lester A., '38, received an M.S. at the University of Minnesota recently.

Tabler Jr., L. Earl., '52, reports the birth of a daughter Laura Lynn on December 7, 1957.

Young, Richard., '53, is a board engineer at the United States Gypsum Company's plant in Oakfield, New York.

Carsner, George., '54, reports the birth of a son, Thomas Gary, on February 21, 1958. George is employed at the Measurement Research Center in Iowa City, Iowa.

Smull, Warren L., '57, has joined the research dept. of Monsanto Chemical Company's organic chemicals division plant in East St. Louis, Ill. On June 29, 1958, he married Judy Ann Ryder in Clinton, Iowa.

Northrup, Byrle A., '58, has joined the technical services dept. at Monsanto Chemical Company's division plant in East St. Louis, Illinois.

PI

Rucker, Jr., John T., '37, is now manager of analytical and physical chemistry in the research and development department of the Hooker Electro Chemical Co., Niagara Falls, New York. Home is in Lewiston, New York.

Ward, John T., '40, is now assistant chief engineer of the Seaboard Air Line Railroad, with headquarters in Norfolk, Va.

Vaughan, William L., '48, is manager of the process materials Sales Division of the United States Gypsum Co. with headquarters in Chicago, Illinois.

McManaway Jr., James W., '54, is with the Southern Machinery & Supply Co., Roanoke, Virginia, as a sales engineer.

RHO

- Morris, W. S., '24, can be addressed box 633, Kilgore, Texas.
- Stuart, Locke McKinnon., '27, is at 403 E. Emory, Marshall, Texas.
- Davis, Fred C., '28, has been appointed superintendent of the Steel Hull Division, of the Newport News Shipbuilding & Dry Dock Co., and the family home is at 43 Rivermont Drive, Hilton Village, Va.
- Davis, Jeff C., '28, is at 3941 E. Desmond Lane, Tucson, Ariz.
- Cooper Jr., Edward M., '30, is manager of the huge DuPont nylon plant in Chattanooga, Tenn.
- Smith, Thomas Glenn., '30, lives at 795 Rankin Drive, Beaumont, Texas.
- Geoghegan, John T., '31, is manager of the Finishes Division of Du Pont of Canada, with offices at 85 Eglinton Ave., E, Toronto, Canada.
- Johnson Jr., James Martin., '31, is at 11637 Turyhill Place, Los Angeles 49, Calif.
- Petroff, Boris B., '33, is head, Traffic Inventory Section, Bureau of Public Roads, U.S. Dept of Commerce, Washington, D.C.
- Woody Charles Lee., '38, lives at 3902 Purdue St., Houston 5, Texas.
- Haynes, Thomas E., '41, Lt. Col. USA, lives at 7267 Hardisty St., Ft. Worth 18 Texas.
- Hood, Jr., John Robinson '41, Col. USA, is stationed at the Pentagon in Washington, D.C.
- Randall Jr., Fred M., '41, is at 1142 W. Guava, Oxnord, Calif.
- Tatum, Richard L., '41, Major USA is commander of the Weather Detachment, 47th Bombardment Wing, at Sculthorpe, England.
- Johnson, Jr., William S., '42, is project structures engineer, Convairs, Fort Worth, Texas.
- Stout Paul E., '42, lives at 6915 Streeter, Riverside, Cal.
- Sturkey, James M., '42, is at 4803 East 70th St., Seattle 5, Wash.
- Dillon Jr., C. A., '46, reports the birth of Clyde Alvin III, on February 4, 1958, in Raleigh, N.C.
- Chestnut, Henry F., '47, has gone to Duke Hospital to study.
- Jones, Richard M., '47, is executive vice president of Chemical Services, Inc. of Atlanta, Georgia.
- Berrier, Joe H., '48, is supt. of streets, Public Works Dept., Winston-Salem, North Carolina.
- Allen, Lewis., '50 lives in Baton Rouge, La.
- Smith Jr., Roy W., '51, is in the technical

- department of Esso Standard Refinery at Baton Rouge, La.
- Hadlow, Robert E., '52, can be reached at Box 518, Bellville, Texas.
- McCormick, Jack E., '52, lives at 1348 SW 174th St., Seattle 66, Wash.
- Parks, William C., '52, is at 3320 Idlewide Way, San Diego 17, Calif.
- Cable Jr., James Lewis., '53, lives at 6200 W. 76th, Prairie Village, Kan.
- Redman, George Paul., '55, is at 2534, Mayan Road, Richmond 10, Calif.
- Murray, Paul Fletcher '56, is at 105-5th Ave. N., Texas City, Texas.
- Harrell Jr., Jesse Worsley., '57, 6423 Bordeaux Ave., Dallas 9, Texas.
- White, Pritchard H., '57, 3226 W. 73rd Apt. 1, Los Angeles 43, Calif.

SIGMA

- Meiter, William A., '27, is now vice president, employee and public relations, the Worthington Corporation, Summit, N.J.
- Trout, Graydon W., '29, is a plant extension engineer with Illinois Bell Telephone Co. in Elmhurst.
- Sloane, Richard L., '38, M.S. '41, is a consulting engineer with R.L. Sloane & Assoc., Salt Lake City, Utah.
- Schiopota, Eugene L., '48, is project engineer for the Electric Storage Battery Co. in Cleveland, Ohio.
- Strang, David H., '51, Ph.D. '56, is a chemical engineer with Procter & Gamble Co., in Cincinnati, Ohio.
- Johnson, Earl T., '53, is an engineer with American Tel. & Tel. Co. in Cincinnati, Ohio.
- Shira, Chester S., '53, reports the birth of a daughter, Kimberly Ann, on May 27, 1958, and home is at 22519 Dolores, Woodland Hills, California.
- Manson, Eugene R., '55, is a petroleum engineer with Union Oil Co., Abbeville, La.
- Papaioan, Ionel M., '55, is an electronic engineer for Comprehensive Designers Co., in Akron, Ohio.
- Irons, Fred H., '56, is a teaching assistant at Mass. Institute of Technology, Cambridge, Mass.
- Lenhart Jr., Roland K., '56, is an industrial engineer with Ingersoll Rand Co., Painted Post, New York.
- Mayer, Robert G., '56, is a quality engineer with the IBM Corp. Kingston, N.Y.
- Smith, Glenn R., '56, is with Phillips Petroleum Co., Big Spring, Texas.
- Brown, Thomas A., '57, and Barbara A. Shea were married January 18, 1958 and home is at 3023 Lynn St., Anderson, Indiana.
- Scharf, Marcus D., '58, and Alice Stahl were married on June 14, 1958. He is

a chemical engineer with Columbia Southern Chemical Corp. in Barberton, Ohio, and his address is c/o RR#1, Portage, Ohio.

TAU

Hughes, Robert H., '25, is chief engineer of Petrocarb Equipment Inc. a subsidiary of Godfrey L. Cabot Industries located in New York cities.

Hastings, Harold Donald, '37, can be addressed at 1 Park Lane, Mt. Vernon, New York.

Goldschmidt, Victor, '37, is a project engineer with Minneapolis-Honeywell's valve division. He married Denise Van Lieu, and home is in Ft. Washington, Pa.

UPSILON

Peter, Theodore E., '29, BSEE is living in Vicksburg, Miss.

Gordon, William M., '31, Capt. USN, is Commanding Officer of the Public Works Center in Manila, P.I.

Steward, Randall W., '34, is president of the Mill & Mine Supply Co. with a new warehouse at 920 Allen St., Little Rock, Ark.

Oliver Jr., Wallace, '42, is with Owens-Corning Fibreglass Corp. and lives at 360 East 5th St., New York City.

Allison, N. B., '48, is construction superintendent for Brown & Root, Inc., Pasadena, Texas.

McKeehan, Maclyn, '48, reports a new daughter, Michelle, born in October 1957. The family home is in Pittsburgh where Doc is senior engineer for Westinghouse.

Burleson Jr., C. J., '49, is engineer for the Texas Gas Transmission Co., in Charles, La.

Gillespie, C. W., '49, is maintenance superintendent for Monsanto Chemical Co.'s plant, Barton, Luling, La.

Stewart, Ralph, '49, is an electrical engineer with Schlumberger Well Surveying Corp., Border, Texas.

Sanders, John Paul, '50, M.S., '52, is on the chemical engineering staff of the University of Arkansas.

Robbins, Billy A., '51, BSEE, graduated from the USC law school, and is a member of the Patent & Licensing Dept., Hughes Aircraft Co., Culver City, Calif.

Williams, Wayne, '52, is district plant superintendent for Southwestern Bell Co., in Jonesboro, Ark.

Bodie, M. William, '53, BSEE, reports a second son, Richard Morgan, born March 12, 1958.

Turner, William M., '55, is in the Turbine Dept. of General Electric Co., Schenectady, New York.

CHI

Butler, Bert S., Hon., and his wife have presented \$15,000.00 to the University of Arizona to set up a scholarship fund for graduate work in geology which is to go to outstanding students.

Park, John Gallaway, Hon. has retired as Dean of Engineering at the University of Arizona.

Bennett, Earl S., '31, Capt. USN, is Public Works Officer, Newport, R.I. Naval Station.

Fisher, Del W., '33, is one of five newly appointed members of the board of Directors of the Arizona Public Service Co.

Coe, Percy E., '37, is now engaged in engineering in the Wellton-Mohawk area in Arizona.

McPherson, John B., '40, Col. USAF is now Co. of the 379th Bomb Wing, Homestead AFB, Florida.

Bluhm, Floyd, '42, is employed by the California Department of Water Resources in Sacramento, as an hydraulic engineer.

Knight, Alexander, '42, is a civilian employee with U.S. Navy as manager for construction with the Marine Corps in San Diego.

Foye Jr., Fred A., '47, is working at N.A. C.A. as a metallurgical research engineer and lives in Bay Village, Ohio.

Creighton Jr., David E., '48, reports the birth of a son Robert David, on Sept. 14, 1957.

Cocks, Theodore F., '52, is sales manager of a new Kansas City, Mo., office of the Chicago Bridge & Iron Co.

Redfield, John, '54, is a production engineer with Springwall Eclipse Products, Los Angeles, Calif., and home is at 2760 Hutton Drive, Beverly Hills, Calif.

Guthrie, Richard G., '55, Lt. JG is now at Camp Pendleton, Calif.

Tuttle, Wayne H., '55, is a metallurgist for Eric Mining Co. and home is in Hoyt Lakes, Minn.

Lofftfield, Roger T., '56, Lt. USAF is now stationed at North Island in San Diego, Calif.

Crall, Ernest, '56, is with the State of California, working out of Marysville.

Collins, John, '57, is with Shell Oil Pipe Line in the research lab. He is engaged to Miss Shiela Dickens and will be married next spring. John's living at 3836 Bel Aire Blvd., Houston, Texas.

- Conrad, Bob, '57, is with J. I. Case Tractor Co., Phoenix, Arizona.
- Eubank, Terrill, and Kent, Bryan, '57, are instructors in the University of Arizona's Civil Engineering Department.
- Grimes Stan, '57, is located at the Boeing Aircraft Transport Division in Renton, Washington.
- Krumlauf, Gee, '57, now a 2nd Lieutenant at E.O.D. School, U. S. Naval Powder Factory, Indian Head, Maryland.
- Lingafelter, Duane, '57, is with Hewlett-Packard in Palo Alto, Calif. He has just completed his training program. His address is 3420 Ventura Court.
- Morin, Bob, '57, is with Convair Astronautics. Bob's address is 4627 59th St., San Diego, California.
- Sandler, Ralph, '57, Hammer, Charles '57, are with the State of California. They are working out of Marysville. Ralph's address until the first of January will be 1629 The Strand, Reno, Nevada.
- Tait, Don, '57, is in Phoenix with Reynolds Aluminum.
- Young, Pat, '57, was employed by Southern California Gas Co. in Los Angeles.
- Zimmer, Don, '57, is in Ventura, California with Shell Oil's Production Branch.
- Krentz, Frank A., '58, reports the birth of a son Michael Alan, on April 20, 1958. He is a student at M. I. T. and home is at 535 Newbury St., Boston, Mass.
- OMEGA**
- Basler, Ralph., '33, is plant manager, Marquette Cement Co., Cape Girardeau, Mo.
- Moulds, Donald., '33, is now Minerals Coordinator, Dept. of Interior, Washington, D.C., and lives at 415 Valley Lane, Falls Church, Va.
- Shane, Ralph., '35, is assistant area road engineer, Bureau of Indian Affairs, Billings, Montana.
- Whitham, W. C. '37, is Division Engineer with the Milwaukee Road and home is at 1006 N-2nd St., Aberdeen, S.D.
- Scott, James., '38, is assistant resident engineer at Offutt AFB, Neb.
- Crawford, Clair., '39, supervisor mathematical analysis unit Bureau of Reclamation in Denver, Colo.
- Flaigg, Norman., '39, is with the Bureau of Reclamation in Oklahoma City, Okla.
- Woodle, Merlyn., '39, is assistant manager of Reserve Mining Co., Babbitt, Minnesota.
- DeLand, Edward., '43, teaches Math at UCLA, in West Los Angeles, Calif.
- Soderberg, Carney., '43, is with Carter Oil Co. Shreveport, La.
- Nelson, Raly., '45, is senior engineer, Johns Hopkins University, Applied Physics Lab. in Silver Springs, Maryland.
- Butler, Robert., '46, can be addressed at Box 729, Worland, Wyoming.
- Colgan, Arthur '47, is staff engineer, AC. The Electronics Division Genl. Motors Corp., Garden Grove, Calif.
- Reinecke, Durwood., '47, is with the sheffield Division of Armco Steel Co., in Omaha, Neb.
- Jones, Robert S., '48, is power plant superintendent for the A.S. & R Co. in Corpus Christi, Texas.
- Udager, Helmer., '48, is estimator and general superintendent with Mandel in Minneapolis, Minn.
- Dickey, Clarence., '49, is general manager of Index Chemical Co. in Houston, Texas.
- Hurley, Henry L., '49, is at 1120 Second Ave. E., Williston, N.D.
- Jacobson Jr., Ed., '49, is now assist superintendent for Homestake Mining Co. at Moab, Utah.
- Moriarty, Kenneth., '49, is supervisor, instrument group, Westinghouse Atom Div., Idaho Falls, Idaho.
- Majerus, Francis., '50, Lt. Comdr. USNAF, is at 46 Pleasant St., Brunswick, Maine.
- Sacrison, C. Robert., '51, is superintendent mining division, Wells Cargo Inc., Las Vegas, Nevada.
- Anderson, Donald., '52, is design engineer Aerojet General Corp and lives at 4934 Fairvalley, Covina, Calif.
- Beiler, Burton., '52, is Sales Mgr., Industrial Equipment Co., Billings, Mont.
- Olberts, Duane., '52, received an M.S. from the University of Wisconsin and is in charge of the Mechanical Lab of the Allis-Chalmers Research Division in West Allis, Wis.
- Bierwagen, Elmer, '53, is at Boite Postale 2048, Dakar, Senegal, AOF.
- Boschker, Andrew., '53, is process supervisor, of the sodium plant for duPont at Woodstock, Tenn.
- Vierling, Edward., '54, is Tool Engineer with Boeing Aircraft, and lives at 615-17th Ave., N., Seattle 2, Wash.
- Cohan, William., '55, is engineer for Newmont and home is at 1414 Rood St., Grand Junction, Colo.
- Fedt, Burton., '55, is geophysicist, Pan American Petroleum Corp., and lives at 1735 Brigham Young St., Casper, Wyoming.
- Allgaier, Don., '56, can be addressed c/o Public Works Office, Ensign USN, 14 ND Navy 128, FPO, San Francisco, Calif.
- Rotter, Rod., '56, is electronics scientist,

U.S. Naval Ordnance Test station, Pasadena, California.

Skogen, Duane., '56, reports the birth of Nancy Lynn, on May 2, 1958 in Ponca City, Okla. where is process engineer for Continental Oil Co.

Stapf, Roger., '56, now lives at 260 Lawnridge, Creve Coeur, Ill.

Taglamonte, Frank., '56, can now be addressed at Boston Creek, Ontario, Canada.

Carriere, Keith., '57, and Phyllis Lundeen were married in Rockford, Illinois on August 23, 1958. He is installation engineer for Pratt & Whitney in West Hartford, Conn.

Coe, Douglas., '57, was with Phillips Pe-

troleum Co. but is now in the army and can be addressed 407-B Washington Blvd., Presidio of San Francisco, California.

Smith, Melvin R., '57, is an honors program engineer with General Electric Co. Evendale, Ohio. He is also attending the University of Cincinnati on a part-time basis and plans to get an M.S. in June 1959. Mailing address is 1914 Dale Road, Cincinnati 37, Ohio.

Burk, Wayne., '58, is open hearth metallurgist with Wisconsin Steel Works in Chicago, and home is at 2358 East 70th Place, Chicago, Ill.

Timmerman, William., '58, is with Ingersoll Rand in Painted Post, N.Y.

According to an evening paper there are only five real authorities on bridge in this country. Odd how often one gets one of them as a partner!

A pessimist has this advantage: Whether his expectations of coming calamities turn out right or wrong, he can be happy about it.

"A man attended a movie and was amazed to find himself seated right behind a young lady and a beautiful collie. The dog laughed continually in the right places, all through the comedy. The man could take this no longer. Leaning forward he told the young lady, "Excuse me, miss, but I think it is simply astounding that your dog enjoys the movie so much."

"I'm surprised myself," the girl replies. "He hated the book."

History Student: In your opinion, will the United States ever have a woman president?

Prof.: In my opinion it's highly improbable for the simple reason that a president must be over 35.

Failures are few among a people who have found a work they like well enough to do it well. You invest money in your work; invest love in it, too. Like your work. Like the people with whom you work. Like the place where you work. It pays well.

A small boy who had a lone penny clutched in his hand went into the candy-toy shop and for several minutes almost drove the clerk nuts by asking to see so many things without making up his mind.

"Sonny," the clerk finally said, "what do you think you can buy for a penny,—the whole world with a fence around it?"

The kid thought it over a moment. "Let's see it," he said briskly.

Did they tell you about the man who was on a fishing trip with his wife and told her that the small-mouth bass were the males and the big-mouth bass were the females?

"He had lunch with the brass."

"Whatsa matter? Wouldn't they trust him with the silver?"

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