THE BRIDGE of Eta Kappa Nu

Volume XXI

Number 4

For May, 1925

Is The Central Station Industry Growing?

Employment with Large Central Station Companies

Upsilon Chapter

University of Southern California

Who's Who in Eta Kappa Nu

F. R. Winders

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Volume XXI

Number 4

THE BRIDGE OF Eta Kappa Nu

Two Dollars per Year



Fifty Cents per Copy

MAY, 1925

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· Please Send in Your Questionnaire ·

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Is the Central Station Industry Growing?

By Harry R. Woodrow

Assistant Electrical Engineer, Brooklyn Edison Co.

With these two articles on

the Central Station Industry

we complete the discussion

of the three major divisions of the electrical industry.

Successively, these were :-

Manufacturing, Communica-

tion and Generation. Next

year we hope to cover in a

similar manner, the smaller,

although no less interesting,

are his returns in satisfaction and happiness.

In the short time of only a little over a score of years the electrical industry has a record of accomplish- brought about by electrical application, large as it is, ment to its credit of which all contributors are proud. is not the greatest service electricity has given to man-The concentration of power generation in large blocks kind. The home has been placed on an entirely new

and electrical transmission to all parts of the country has progressed far beyond the most optimistic hopes of the pioneers.

Although this achievement alone gives considerable satisfaction to those connected with this industry, far greater happiness is realized in knowing of the benefits this service has given to the people.

It has been a well demonstrated fact that the return to the large class of working people is in direct

proportion to their productive ability and since their year, the increase in requirements for electrical energy productive ability is a direct function of the amount of power placed at their elbow, their return is dependent upon the electrical energy at their service. Statistics are of interest in showing that the amount of energy used per workman in the United States is two to three times that in Europe and likewise the average wage is approximately in the same ratio.

It may truly be said that happiness or satisfaction is not measured in wages, but it cannot be doubted that, until we reach the point well beyond the mere necessities of life, the living condition in the home is improved by greater comforts and educational opportunities which a greater income affords.

In the new large power developments which are made possible by the ability to transmit great quantities of energy long distances with high efficiencies, we are able to make one pound of coal produce the same amount of work as five and six pounds produced in the small, isolated plant. In addition the large amount of waterpower which the Almighty has provided is being made available to his people through the medium of the elec-

Although big strides have been made in the conversion of nature's energy to the uses of mankind, there are still big opportunities for their further developments. The efficiency in converting the chemical energy in coal to electrical energy, although improved in the ratio of one to five in the last score years, is still

HE greatest opportunity a man can have offered only one-fourth of the ultimate possibilities. The inhim is that of service. The nearer a man's efforts dustry is in serious need of, and the opportunities are are reflected in service to the public, the greater large for, young men with analytical ability and vision into the fundamental possibilities at hand.

The revolution of industrial processes that has been

plane with many of the drudgery items turned over to electricity. Although the electrical appliances which are now in common use in the home are many and have produced remarkable results, the possibilities in this direction have just been touched and we will soon see the electrical utilization in the home five to ten times the present amount.

Whereas, the growth in population in the United States is increasing at the rate of less than 2% per

is at the rate of 15%, and with the many developments in view it is probable that the future growth will be as great, or greater, for many years to come. This growth requires doubling the capacity of the electrical utilities in every five to six year periods. The present generating capacity of the electrical utilities in the United States is 20,600,000 kilowatts and therefore new developments will be required at the rate of 3,000,000 kilowatts per year. The cost of this new generating development will amount to \$300,000,000 to \$400,000,000 per year and approximately twice this figure will be required in transmission, substations and distribution. That is, approximately \$1,000,000,000 per year will be expended in the new developments of the electrical utility industry.

The present investment of public electric utilities is over \$6,000,000,000 and the money invested in these plants for transmission is considered a safe and stable investment by the public and the bankers. New securities are purchased by the public with open minds and on the basis of a fair return, and the consuming public is beginning to appreciate the real service utilities are providing for them.

The financial structure for future developments is well established and with the public's confidence in the wise expenditure of their private capital in electric public utilities, the future in this field looks very bright.

(Continued on page 132)

Employment with Large Central Station Companies

By D. A. Pierce, A '10

Engineer of Electrical Distribution, Public Service Co. of Northern Illinois

lenge to the young engineer who is selecting the other companies are a common practise. line of work that he is to follow. The development of this field has been so rapid and the possibilities for the future so unlimited that the opportunity is limited only by the ability of the individual.

During the last fifteen years the electrical industry has developed from small, inefficient, local stations using from twelve to fifteen pounds of coal per kilowatt hour produced, to the present Central Station organization which are approaching a record of one pound ooo,ooo. per kilowatt hour.

The growth of the net work of transmission and distribution lines has made it possible for many remote places to receive service. The distances and loads carried has caused the voltage to be increased so that lines of 220,000 volts are used for transmission purposes.

These new conditions have forced the practical man of yesterday to give way to the technically trained engineer of today. The field has so widened and the problems have become so complex that there is need for every type of engineering in the handling of the

Many of the Central Station companies have organized training courses where the theoretical knowledge learned in school can be given practical application. The student is given an assignment in each of the main divisions of the work, such as production, distribution, utilization. Here it is possible for him to get first hand information as to the actual methods of the work and at the same time pick out the particular work which he is best fitted for. A course of this kind makes it possible for him to gain in practical experience what might take him years under the old method. Not being forced to move from one company to another, in order to secure the different kinds of experience, he is able to gain a more unified idea of the organization of a Central Station industry and at the same time increase his value to the company that he is working for, due to the large amount of company history that he accumulates as well as the knowledge of the personnel and policies of the company.

The engineers working for the Central Station companies are given every opportunity to develop themselves while working. The membership in technical societies is encouraged and the exchange of ideas between companies is fostered. Inspection trips that en- come our big men of tomorrow.

HE Central Station Industry today offers a chalable the engineer to keep posted on the progress of

The year nineteen hundred and twenty-four gives us a good indication of the progress being made and what can be expected of the future. During that year more than \$1,200,000,000. was raised by the electric light and power companies of this country, of which one billion went into the building of new generating plants and transmission and distribution systems. The total amount now invested in this industry is \$6,600,-

Based on the development of the past and the estimated growth of the future, this investment will be thirteen billion dollars by nineteen hundred and thirty. The growth of the communities served and the unlimited possibilities for the use of electrical power make this growth certain. The electrification of the railroads and the development of rural communities are but a few of the developments that are coming in the

Here then is an opportunity for the young engineer to connect himself with an industry with a guaranteed future. There is no possibility of getting into a rut for the whole industry will be moving too fast to allow anyone to remain static long enough, unless he allows the industry to grow away from him. The work is diversified, offering an opportunity not only for engineering work of every kind, but also the chance of working on the outside in contact with the company's customers.

In selecting his future work the graduating engineer is offered almost an unlimited number of opportunities to select from. The Central Station industry is only one of his many opportunities. At that time he must select from these the line which he is going to follow. In making this decision it would be of value if he were to compare both the future development of the industry which he is considering, and his chances for advancement, with that offered by the Central Station In-

(Continued from page 131)

The young men now entering this field today have a golden opportunity to grow with this industry and be-

Upsilon Chapter

The University of Southern California

THE University of Southern California was and another Science Building, the latter building to founded in the year 1880, and in the same house the Electrical Engineering Department. year the first building was erected on the present site of the university in what was then a wheat field on the outskirts of Los Angeles. Since then, both the city and the university have expanded until now the University of Southern California, from its position in the midst of a city of over a million population, has sprung into a place of leadership in civic and educational circles, and has been recognized throughout the country as one of the foremost institutions of the land.

Its progress has for many years been hampered by lack of funds, which made it impossible to provide the physical equipment necessary to meet the growing and expanding needs of the student body. Despite its inadequate resources, it is doubtful if any institution of learning has accomplished so much on so little capital.

After many years of untiring endeavor devoted to the guidance of the University of Southern California, George Finley Bovard resigned from the presidency of the University in 1921. He was succeeded in office in 1922 by Rufus B. von KleinSmid, an educator of national and international renown. Realizing the urgent need for more working capital, in 1923 President von KleinSmid initiated a campaign for \$10,000,000, half of which was to go for endowment and half for building. This campaign is still in progress, and it is expected that the whole sum will soon be subscribed. Already it has resulted in increasing the endowment of the University from \$300,000 ten years ago to over \$1,300,000 at present.

In this same period of ten years, the assets of the University have increased from \$500,000 to over \$3,-000,000. In this case, as in all other places where figures are mentioned, the figures given are very conservative. Thus the stated increase in assets does not include the increase in the value of the University's property due to the increased scale of prices, but is based on original costs. As a matter of fact, competent realty men state that the land on which the University stands is alone worth over \$7,000,000.

The University of Southern California is at present engaged in an extensive building program. The first unit to be built was the Administration Building, which was completed in 1921 at a cost of \$600,000. This was followed by the Science Building, completed in charge of the Department in the fall of 1923. Professor broken for the new Women's Building, and work is the men of the electrical profession. For some time soon to start on the Law Building, each of which is he was a member of the teaching staff of the University to cost \$150,000. Plans are now under way for the of Illinois, and while there he was elected a member building in the near future of a new Dental Building of Eta Kappa Nu. From 1918 to 1921 he was Asso-

The rapid growth of the University of Southern California is perhaps most easily shown by glancing at the increase in enrollment during the past few years. Twenty years ago the total enrollment was 300, increasing to 1700 ten years ago. By 1921 this had further increased to 5,635. From 1921 to last year, the enrollment practically doubled, the 1923-24 enrollment being 11,025. Official records for the present school year have not been compiled as yet, but they are expected to show an increase that will be correspondingly great. The above figures are the official University figures, which include summer school and extension division students. Deducting these students from the total, the number of students pursuing college courses on the campus during 1923-24 was 7,164. The faculty has increased in like proportion, until it now numbers 575.

Several years ago the worth and standing of the University of Southern California was recognized by the Association of American Universities as being of the best quality, and this University was accordingly taken into membership. This marks it as an educational institution of the highest grade, and makes the University of Southern California fully accredited with the largest and best universities of the country.

The course in Electrical Engineering was established at the University of Southern California about eighteen years ago, under the supervision of the Physics Department. It continued to be a part of the Physics Department, under the direction of Professor Arthur W. Nye, until 1918. In 1918 Electrical Engineering was established as a separate department under Professor Fay Wilson, who was formerly Assistant Professor of Electrical Engineering at the University of Michigan, and well known as the author of several important books on Electrical Engineering. After several years of failing health, Professor Wilson passed away in the spring of 1922.

From the spring of 1922 until the fall of 1923, the work of the Electrical Engineering Department was somewhat disorganized while a search was carried on for a man of large capabilities fitted to advance and expand the Department.

Such a man was found in Philip S. Biegler, who took 1924 at a cost of \$250,000. Ground was recently Biegler is widely known and held in high esteem among ciate Editor of the Electrical World, a position which put him in touch with all phases of electrical engineering and its operation in practice, enabling him to teach his students practical, as well as theoretical, electrical engineering. Following his editorial work, he taught at the State College of Washington until he took charge of the Electrical Engineering Department at the Uni- chines in actual plant operation. versity of Southern California.

Professor Biegler is ably assisted by Professor Clarence E. Guse. Professor Guse is a graduate of the State College of Washington, and came to the University of Southern California with two years experience at the General Electric Company, one year with Fairbanks Morse & Company, and one year's teaching ern California is yearly expressed by the exceptionally at Washington State.

creased the teaching staff from one regular and one part time professor to two full time professors. The Staff was further increased this year by the addition of a student assistant.

These increases were necessitated by the steady and rapid growth of the Electrical Engineering Department. In 1920 there were three graduates from this course, increasing to eight in 1923, followed by twelve last year. This year there are seventeen Seniors to be graduated. This means that for the past five years the Electrical Engineering Department has increased over forty per cent. each year.

The present enrollment in Electrical Engineering is 17 Seniors, 26 Juniors, 20 Sophomores, and 30 Freshmen. The percentage of underclassmen continuing throughout the four years is unusually high, and such is the growing fame and success of the Department that it attracts students from other schools and causes them to transfer here. Thus the classes present the rare condition of growing from their Sophomore to their Senior years, instead of decreasing, which is the customary occurrence. For example, not only did all of last year's 14 Juniors and 18 Sophomores return this year, but they brought with them three additional Seniors and eight additional Juniors, increases of 21 per cent. and 45 per cent. respectively.

The increases in the teaching staff and the number of students have been accompanied by a correspondingly great increase in the laboratory apparatus. At the present time the laboratory is equipped to perform all of the standard laboratory experiments and presents to its students laboratory courses closely paralleling those given by the largest engineering schools.

Because of its advantageous location in a metropolis where electricity plays an even greater part than in most cities, the classroom and laboratory work receives a very valuable supplement in the form of frestudents with the most modern engineering practice.

A wonderful spirit of cooperation and interest in Electrical Engineering at the University of Southern California is shown by the men of the electrical industry in Los Angeles. This interest is expressed by their many offers of the use of machines of all kinds and the opportunities given the Department to test ma-

It is because of this practical knowledge of engin-

eering based on a thorough technical training that the graduates of this Department are held in unusually high esteem by such concerns as the General Electric Company. The respect of the General Electric Company for the worth of graduates of the University of Southhigh percentage of U. S. C. graduates selected by them The coming of Professors Biegler and Guse in- to take their famous test course, an opportunity greatly prized by engineering students in western universities particularly. Of the twelve graduates last year, five were chosen to take this course, and two were chosen for the corresponding course at Westinghouse. Not only is this high percentage of graduates selected for the test course, but of this number an exceptionally large number of U. S. C. men from the test course are picked for the Advanced Engineering course. To be given a place in this class is a signal honor. Recently in speaking of U. S. C. graduates, R. E. Doherty, Consulting Engineer of the General Electric, made the comment that the U. S. C. graduates were first class men, and that it was their training at the University of Southern California that made it possible for them to carry this advanced course.

> With the backing of the greatly increased resources of the University, supported by the interest and good will of the people of Southern California, and guided by the capable hand of Professor Biegler, the Electrical Engineering Department of the University faces an era of certain prosperity and success.

At this writing the necessary number of favorable ballots have been received from the active chapters, thereby accepting the petition of the ten men in the University of Southern California to be granted a charter. This chapter to be known as Upsilon, will be installed before the end of the present school year.

Brother Zollinger, assistant secretary, requires the following issues of THE BRIDGE to complete his files. Will some public-spirited brother come forward and help Brother Zollinger out?

1909 1910 | Yearly issues. 1912 Oct. 1919, Vol. XVI, No. 1.

If you can let him have any or all of these issues quent inspection trips which are held to acquaint the please write him at 429 South Avenue, Wilkinsburg,

Who's Who in Eta Kappa Nu

F. R. WINDERS, A '05

Interview by Dallas R. Lamont, T'20

A least he should be. This profession of ours is miguranting and the practice of pretty much a coldly intellectual proposition, parveneered him with any impervious shell that makes ticularly if we consider it in its narrower aspects, and him the less of a social asset. Quite the contrary is perhaps we are often inclined to stick too closely to the case. He is possessed of a rare sense of humor strictly technical considerations, to attribute undue im- and follows the happy doctrine that a smile will go a portance to purely inanimate phenomena, to fit in too long way toward easing the ills of the world. easily merely as a cog in the wheels of some big or-

ganization, to keep our noses too close to the grindstone of our daily work so that we fail to get the proper perspective of things,-in short to forget that we are living and that we owe ourselves the duty of getting the fullest possible measure out of life and of radiating the benefit of that fullness of life to others. How many scientists have starved to perfect a creature of their invention or to establish the proof of a law of nature. "In science there is no result worth while apart from painful research, from ceaseless, merciless, consuming toil." And it is the engineer's province to join in that never-ending toil to the end that the world's store of knowledge and the world's understanding of things may be the greater and that life for all may be more worth living. But in concentrating on this let us not overlook the fact that we are men: not slaves to a job; that we are thinking, feeling beings, not

ing a true capacity to live, to becoming a constant joy to oneself and to others. And so this living phase of our existence may perhaps need some attention.

to all with whom he contacts. Such a man is Brother other incidental trophies of minor note. The game

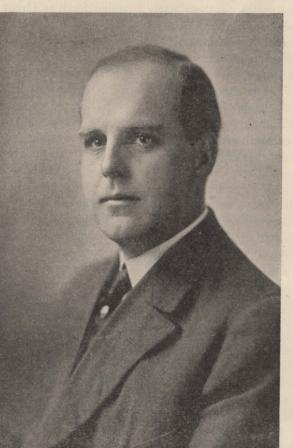
FTER all an engineer is a human being. At Winders. He is thoroughly human, and his engineerleast he should be. This profession of ours is ing training and the practice of his profession have not

Brother Winders is somewhat reticent in divulging

specific data as to the early part of his existence. He has evidently been subjected to some distressing experiences on the witness stand for he refuses to positively state that he was born on June 30, 1831 at Sycamore, Illinois, but admits that he has been told that he was born of poor but honest parents on the aforesaid date at the aforesaid place, but denies any recollection of the event. We do homage to Brother Winders' shy and retiring disposition in thus cautiously releasing this valuable information, but must of necessity assure him that one's one testimony as to the date and place of his birth is everywhere accepted as competent evidence in proof of those facts even though it be hearsay evidence.

Out-of-door life in and about the woods and fields of Sycamore held its usual attraction for our brother. In fact, part of the definition of a red-blooded citizen of our country and member of our

just machines for grinding out some certain kind of organization is that as a youth he was attracted by the work. It is fundamental that nothing is won except lure of the life beyond the store windows and the conby constant striving. There is no short cut to acquir- crete pavements. Brother Winders was ambitious with respect to athletics, but not overly proficient in certain branches of these manly arts. Upon one occasion, probably for reasons having to do directly with avoir-Every now and then we come across some brother dupois, he was chosen for the position of center on his engineer who possesses to an unusual extent a radiat- High school football team and proceeded to the fray, ing personality and the ability to dispense good cheer no doubt, with visions of all-American honors and



Research Engineer, Cleveland Electric Illuminating Co.

The first evidences of an aptitude for engineering were detected in Brother Winders while he was yet a small youth. These evidences took the usual form of an insatiable desire for building things. Although again relying on extraneous witnesses to these early events, we are reliably informed that Brother Winders' early engineering tendencies ran rather toward taking things apart than toward the synthesis of raw materials into useful articles. In defense of this tendency, which when casually considered may appear to be indicative of a destructive nature, it may be stated that in taking devices apart Brother Winders was always imagain in such fashion as to improve their mechanism. piece of apparatus than it had been prior to its disassembly. To fully present the other side of the question, however, it must be admitted that some of the articles which Brother Winders investigated in the fashion just described, particularly one large mantel clock, were never quite the same again.

without dire consequences to the avoider. As with most boys who later find their way into the ranks of H.K.N., Brother Winders' interest in school grew on him as he became older. In High school and in his college years he became particularly interested in phyout of school early he could usually be found of an evening leaving the building with the janitor. His innounced and consisted chiefly in imbibing enough of the subject to obtain a satisfactory grade at a reasonable minimum of effort.

All of us have recollections of one sort or another arising out of our early efforts to become a productive economic unit. Brother Winders' early wealth getting through a considerable succession of jobs of rather activities were one in number. That one job arose out widely varying character as steps to his present position. of the fact that his father was the owner of a fruit His first two jobs after leaving college lasted five years and grocery store in the old home town and it consisted each and were not primarily in electrical work, both of

was on and finally was over, and the erstwhile all- of either a position behind the counter weighing up American center emerged from the fray having lost lima beans or slicing Swiss cheese, or a precarious poise one front tooth, several square feet of epithelial tissue on the high board seat of an old-fashioned spring and one football game. Much to the sorrow of our wagon behind "Old Bill" delivering the Saturday groceries in the various precincts of the village. In reflective moments between the deliveries of flour sacks and watermelons, Brother Winders' fancy turned to thoughts of his future and probably the one outstanding ambition of these youthful days was to have a job like an uncle of his who worked only nine hours a day and received one hundred dollars a month and who also had an annual pass on a railroad.

After finishing High school in Sycamore, Illinois, Brother Winders tearfully left the old homestead and sallied forth to Urbana to assume the crushing responsibilities of a freshman in the electrical engineering course at the University of Illinois. He spent the years 1901 to 1905 in and about the University incidentally accumulating sufficient information to secure a B.S. degree in electrical engineering. The success of his scholastic endeavors is typified by his membership in Eta Kappa Nu, in which organization he was a bued with the noble aspiration of putting them together charter member of the founding chapter. Brother Winders thoroughly enjoyed practically all of the It must be carefully borne in mind that the ultimate courses which he took at the University. Perhaps a idea was to render the rejuvenated article a better single exception to this was mechanical drawing, for he never did learn how to make India ink behave.

Brother Winders' first job after leaving college was in a well heated power plant in southern Missouri, in the romantic month of July. On the first job his engineering position consisted in officiating at one end of an extra heavy six-inch pipe roller which was being To the very small boy school usually assumes the used in moving a large Corliss engine. Two things character of a pest. To this general rule Brother kept him from leaving this job. The first and probably Winders was no exception. In the lower grades his the most important was the lack of carfare home, and ideas with respect to institutions of learning was that the second was the munificent sum of a dollar seventythey were to be avoided insofar as such was possible five a day which he received for his ten hours' work. Times soon changed, however, and after a few weeks he was promoted to straw boss—two dollars a day and fewer blisters—and then was happier. Except for the first few weeks of back aches and sore muscles and a continuous diet of bacon, soda biscuits and lemon pie, sics, biology and chemistry and rather than skipping with none of which dainties he is on speaking terms even after all these years, Brother Winders has never been greatly disappointed in the opportunities offered terest in languages and similar subjects was less pro- in the engineering field. He still believes that an engineering course is the proper thing to take and that it furnishes the basis of a sound and well balanced edu-

One thing which may be worth noting in connection with Brothers Winders' experience is that he passed

THE BRIDGE OF ETA KAPPA NU

them involving chiefly heavy construction work in in- cable system and work which is being done in connecdustrial plants and power plants. There were in each of them, however, sufficient features involving knowledge of things electrical and scientific to render his college training very useful. These jobs also served as a means for acquiring a great deal of information and experience with regard to the so-called practical phases of engineering. The next five years were spent in the construction and management of public utilities. At this point Brother Winders took what at the time seemed to him to be a step backward, but which proved to be a valuable source of experience which he has lowed, is one for which he would have initially connever since had cause to regret. This was the accept- sidered himself to be particularly unfitted. It is one ance of a position with the Railroad Commission of Wisconsin, in which position he served for two years as Service Engineer. After that he went to New York City and joined the engineering staff of the National Electric Light Association with which organization he remained for two years, going to Cleveland in his present capacity about two years ago.

Brother Winders' present position is that of Rewith statistical work, work on rates, work on special do with negotiations with other utilities. The principal are still holding positions in the same organization with projects in which the company is doing some pioneer which they originally affiliated themselves and who are H.K.N. is the installation of a 66,000-volt underground bility and importance.

tion with powdered fuel installations for power production and for central station heating.

As for choosing a permanent line of work, Brother Winders believes that circumstances probably have the major influence in deciding what the choice of occupation will be. One thing in Brother Winders' own experience which is worthy of comment is that his present line of work, from which he has derived the most profit and enjoyment of any which he has folwhich he probably never would have adopted had he not been in a sense forced into it by circumstances resulting partly at least from having made several changes in occupation since his graduation from college. Brother Winders does not feel, however, that shifting of positions is essential for the engineering graduate in order that he may ultimately find himself in a work which he likes and in a work which offers search Engineer for the Cleveland Electric Illuminat- satisfactory opportunity. It is oftentimes possible for ing Company. In this company he is in charge of a the young engineer to locate permanently in an organiresearch organization which is principally occupied zation and work out a very satisfactory career without ever leaving that organization. Brother Winders states projects which are contemplated and work having to that from his experience he knows of many men who work which may be of special interest to members of holding in those organizations positions of responsi-

THE TRAIN WHICH NEVER CAME.

By VLADIMIR KARAPETOFF

On a stormy cold night At the station they stood And waited in vain for the train. A mother to meet her dear boy, A young lover Whose bride-to-be was on that train, A burglar who hoped to be lost in the West With a precious loot.

CHORUS

And a knight of the grip, Moishee Ike Feigendrip, On his regular trip.

But a rail or a wheel up and broke (As they sometimes do on a bridge, On a stormy cold night) And the train plunged deep To its watery grave, And the dead Were envied then by the maimed-

CHORUS Who struggled for breath, Or were frozen to death.

The Mother is ending her lonely days In an old ladies' home; The lover is looking in vain For the loved one's face In a soulless and perfumed doll Whom he married for gain; The burglar was caught And is serving his time,

CHORUS Moishee Ike raised Cain Wtih much language profane, And then took the next train. So their plans were all changed, For they trusted a thing Made by frail human hands,-The train which, alas, never came. CHORUS

> Though the courts have allowed the claim That God's will was to blame That the train never came. Har!

Eta Kappa Nu Association

and mutual benefit to, students and others in

An electrical engineering fraternity founded at the profession, who by their attainments in college or in practice manifest exceptional interest and marked ability in Electrical Engineering.

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XI Alabama Polytechnic Institute

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Founded 1913

The BRIDGE Eta Kappa Nu

PUBLISHED QUARTERLY BY THE ETA KAPPA NU ASSOCIATION

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This is getting to be a habit. For the fourth successive year we have had to write an editorial for the May issue in which we thank all who have contributed in any way to the success of THE BRIDGE during the preceding year.

It is a real pleasure to acknowledge at this time our debt to those who have assisted,

THANKS

our Associates on the Staff, the National Executive Council. Associate Editors of Active and Alumni Chapters, and a few

others. We thank you all most heartily.

But, Brother Average Reader you disappoint us sorely. Have you ever contributed one little bit? There are so many ways in which it can be done. Soliciting of subscriptions and advertisements, sending in personals, addresses for Lost Souls, articles and letters of advice and criticism are only a few of these

The Creed of the Boy Scouts is to do one good turn each day. We would be lifted from the depths of discouragement very quickly if each Brother Average Reader would resolve to do just ONE GOOD TURN for THE BRIDGE during the coming year.

We are all working for the same cause and to the same end: A Better Bridge and a Greater Eta Kappa Nu. Please give us a lift.

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The petition received from ten students at the University of Southern California for a chapter was apsubscription for next year.

proved by the National Executive Council and then submitted to

UPSILON CHAPTER the Active Chapters. By April 29th, approval of the necessary number of chapters had been

received, thus assuring the charter for our Nineteenth Chapter in the very near future.

The installation of Upsilon Chapter will be made by a representative of the National President before the end of the present school year. The fraternity will then have three chapters evenly distributed on the

Upsilon Chapter, we welcome you. Be faithful at all times in the discharge of your obligations to the fraternity.

0000000 The Twenty-first Annual Convention will have passed

TWENTY-FIRST CONVENTION

into history before the November issue appears. For that reason we wish to remind you now that it will be held at Lafayette, Indiana, Beta Chapter as host,

on October 30 and 31st, 1925.

Alumni in the vicinity of Lafayette and all others who can possibly arrange to attend are urged to do so. The convention is open to all brothers, whether delegates or not. The past few conventions have had the pleasure of welcoming visiting alumni. We hope there will be a large number present at Lafavette.

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Fraternity Journalism is going through a transition

WHICH IS THE BEST CHAPTER LETTER?

period. No one denies that. We believe THE BRIDGE has weathered the major part of its transition, but there is still one press-

ing question which has to be decided.

Until this year our Active Chapter letters have consisted entirely of a running record of the chapters' activities. In the past three issues a different type of letter has been tried. The Editor has assigned a subject for discussion by all Associate Editors in each issue. In addition they have in some cases included notes of the chapter's activities.

Brother McLaren of Xi Chapter offers the following suggestion: "Why not let the Associate Editors choose a topic from the preceding issues for chapter discussion and a report? Perhaps the same thing does not appeal to all and it would be interesting to see just what topics hold the greatest interest."

We are not sure what constitutes the best chapter letter. Two different sets of readers must be interested and satisfied: the undergraduates and the alumni. Hence we broadcast this S. O. S. Please send in your vote as to which type of letter appeals most to you and why. A good time to do it is when you send in your

ACTIVE CHAPTERS

Alpha Chapter

University of Illinois

During the past month Alpha Chapter has been engaged in the initiation of seven Juniors, W. L. Branch, P. W. Emley, W. Hickman, E. F. Hettel, W. T. King, F. E. Leib and W. C. Webb. During this time we have had no business meetings and hence have had no opportunity for discussion of the four articles in the January issue of THE BRIDGE on "Employment with Large Electrical Manufacturing Companies." The opinions expressed in this letter will necessarily be those of the writer and cannot be vouched for as being those of the Chapter as a whole.

Of the four articles the one by Professor Harding, of Purdue Uriversity, made the most favorable impression.

may be taken up and the program of pre-initiation workout. study during the training course. Most H.K.N. men know what the training ing meetings every two weeks on Wedcourse is like. What they wanted to nesday evening. Our atterdance has know was what benefits were to be de- been exceptional and the boys have rived from it.

tunities of the Young Engineer with meeting in March, the old officers went the General Electric Company" is sim- into the file of "has-been" and the new ilar to that of Mr. Coler's. He deals ones took up their reign. The incommore with the curriculum of the test ing officers are W. O. Osbon, President; and the social, religious and recrea- F. W. Rich, Vice-President; F. C. Yartional facilities of Schenectady than he ling, Recording Secretary; H. I. does with the advantages to be ob- Schmidt, Corresponding Secretary; C. tained from such a training course, C. Rigsby, Treasurer; P. J. Scheerer, which according to my belief should be Bridge Editor. the major topic of such an article.

good indeed. It brought out clearly sors, they'll have to step some. We the advantages of entering the employ certainly regret seeing our Seniors contents digested, they seem to have Prof. Scherger in his class in public good. of a large manufacturing concern leave us. rather than a small one. He poirts The campus continues to undergo a out the value of the test course, the constant metamorphosis. An army nullify the effect of the rose colored ring came when the "Discord Quartet" held at the Hotel Ambassador on the are all having the time of their young wide experience obtainable, the per- tractor has been busy pulling out dead spectacles as furnished by the repre- consisting of Larson, Tweedle, Taylor 24th of April. It owed its huge suc- lives acting as inspectors of the world. manency of the employment, the pres- and superfluous trees and at present sentatives. tige enjoyed by those employed by a an Indianapolis landscape gardener and large firm and refutes the often brought a gang of men are slowly shaping the clear and understandable account of

ploy of large companies. It is thought marked already. that similar articles on other phases The Junior Inspection trip was disof the industry would be well received.

ity to wish those brothers who are chalk out the windows any more. graduating this June, "Good luck and Brother Topping, however, plans on

> M S. LUTHRINGER Associate Editor.

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Beta Chapter

Purdue University

Beta Chapter, while itself yet in the Professor Harding points out in a pleasant clutches of this destructive clear and concise manner the reasons plague of spring fever, extends its symwhy he believes the graduate training pathy to all those brothers who are courses available with large manufac- fellow sufferers. We're snapping out turing and public utility corporations of it now though, having gotten down are beneficial. His arguments as to to work and pledged ten of our best the advantages of such courses are men in the junior class of the Elecconvincing and are well brought out. trical school. They are M. C. Don-The article by Mr. Coler, of The necher, E. R. Elliott, J. M. Davis, L. Z. Westinghouse Electric & Manufactur- Gossman, N. L. Hadley, C. H. Heiney, ing Co. deals less with the benefits to G. B. Jarvis, C. C. Palmer, G. R. Rupbe derived from a training course than recht, and J. L. Winks. We are proud with what the training course is. He of them and glad to have them with points out the variety of work that us. They are now enjoying the usual

had a fine time at every meeting. We Brother Jennings' article on "Oppor- look forward to them. At the last

If these men serve Beta Chapter as Brother Seybold's article was very faithfully and well as their predeces-

up argument that a young engineer campus in accordance with the plans loses his identity in a large concern. for the Greater Purdue. If any of the It seems to the writer that the articles alumri are not acquainted with these by Seybold and Harding are of the plans, they ought to write the Purdue type which are desired by those who Memorial Union for information sans have been considering entering the em- delay. Improvements are becoming

pensed with this year as the State is Alpha Chapter takes this opportun- so hard up that we can't even throw piloting the Junior Electricals around on short visits to noteworthy projects and plants within a radius of a few hours' travel.

> Beta Chapter wishes to remind every one of the convention to be held at Purdue next fall. We're planning on a real convention and we guarantee an enjoyable time. You are cordially in-

> Beta Chapter wishes all its graduating brothers from Alpha to Tau a most successful future.

> > P. J. SCHEERER, Associate Editor.

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Gamma Chapter

Ohio State University

At this time of the school year, the student who is graduating, in electrical engineering in particular, is confronted with the problem of what type Thru the winter we have been hav- of work he desires and the size and kind of company he wishes to become affiliated with.

> The companies interested in the services of the graduate send their representatives to interview the class and in a good many cases are apt to paint a very rosy picture of the opportunities obtainable through employment with their concern. By the time the man has heard the advantages of several of these companies, he is pretty much bewildered and very apt to do something which he is liable to regret Stemwedel acted as toastmaster, and at a later date.

Therefore, if articles such as those in the January issue are read and the ply of jokes. And such speeches! we know this year's will be equally a steadying influence and tend to bring speaking never heard any the equal of The Inter-Fraternity dance of the the situation out in the sunlight and these. But the big surprise of the eve- Honorary Fraternities at Armour was

The articles in question gave a very

the industry as a whole and particu- musical review of our failings in a mittee gave his time unstintedly to going to work.

would allow him to look at the situation from both sides.

> J. N. HEED, Associate Editor.

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Delta Chapter

Armour Institute of Technology

The consensus of opinion was that the articles provided an accurate and detailed picture of the industry, but Schaeffer, W. A. Dean. They are all only from the viewpoint of the large of the Class of '26. manufacturing company.

The ways in which this type of article could be improved so as to make it more valuable will follow naturally. In a similar set of articles, have a man from each of the two sides write up his side of the question. The man with the larger company would be naturally biased against the smaller manufacturer and vice versa. However, if each wrote up the side he believed was best the reader could gather his own points from both articles, and form his own conclusions. They might also give more definite information as to actual promotion that has taken place in the industry, so as to form a basis to predict promotion in the future. In this way, the undergraduate could form an estimate of his probable value to an organization in the future, and not form his decision purely from iritial compensation.

The night of March 11 marked the beginning of a new era in the lives of five Juniors. It was the occasion of their acceptance of the pledge pins of H.K.N., at a banquet held in their onor at the University Club. The banquet committee lived up to its past reputation and provided us a meal worthy of the occasion. After the chef had satisfied our inner cravings the after dinner speeches began. President nost of the brothers are still wondering where he got his inexhaustible sup- year at Columbus Park Refectory, and

larly, just what is to be expected upon "How Do You Do" song-not a one put the dance over in fine shape. was missed, even Profs. Freeman and Feeling the need of more "Red Letwatching the adventures of Milton ats! Sills in "As Man Desires."

> Our guests were A. S. Hanson, F. H. Le Cren, E. L. McHenry, G. S.

Then the pledges started on their long trip up the stormy slopes to the H.K.N. cabin at the top. How well they knew there the leads in the Dynamo Laboratory belonged-never forgot the prefix Mr .- ard woe to him who failed to sign the "Good Book" every day! Fearing that their education had been sadly neglected in Carpentry and Foundry, they took a refresher course on paddles and bookends. Oh, for the life of a Delta pledge! Through the kindness of Brother Patterson, the Inquisition was held in the Theta Xi House on Thursday evening, April the 16th. Brothers Kendrick and Pugh and their associates of the Chicago Alumni Chapter conducted the questioning in the approved manner. Truly some of the information we received was never gleaned from Perder or Langsdorf! Then the Saturday afternoon following, they had the usual thrills of a Delta Irformal. In conjunction with the Alumni Chapter the Formal Initiation was held at the Breevoort on the evening of the 21st. Using the new ritual the ceremony was indeed an impressive one. It is needless to mention the meeting was a huge success.

We are looking forward to seeing the Alumni Chapter again at its annual dance some time in May. The men of '25 will never forget the one held last

and Bishop, tuned up the "uke" and cess largely to the efforts of Brother At last they have broken from the congave us an interesting, if not entirely Larson, who as Chairman of the Com- fines of "Old Penn State" and have

An article showing the situation Snow, though unable to be present on ter Days" at Armour, several of the from the viewpoint of the smaller account of illness, were not forgotten. brothers decided to initiate a "Short manufacturer might be of some value If Harry Schroeder doesn't turn out to Circuit" Day on which the worthy Sento the undergraduate in as much as it be a politician there will be a lot of iors of the Electrical Department disappointed prophets. And even should blossom out in red ties. The Johnny Frederick had to do some tall day scheduled was the day after the inexplairing about that side trip in Mil- spection trip to Milwaukee. All the waukee! Prof. Richardson then wel- Seniors were duly informed and all comed the new men on behalf of the promised faithfully to come in the defaculty. And to make the evening one sired regalia. But alas! for men like never to be forgotten, the party de- Columbus who sail uncharted seas, parted en masse to the Chicago Theatre there were only a few valiant ones who and spent the rest of the evening dared to come in the prescribed crav-

We had hoped to ar nounce the winner of our essay contest in this issue, but as we go to press the decision has not been reached. The contest which is open to all members of the Sophomore Class in E. E., provides that the winner will be presented with a Standard Handbook. A large number of replies were received, which made the choice a difficult one.

When the last commencement exercise is over, and the diplomas framed. four H.K.N. men will fling in the last dunnage bag, strap that other valise on the running board, crank the trusty "flivver" and set out for parts unknown. The "Four Horsemen" are Sothen, Larson, Schroeder and Stemwedel, and the destination the wild and woolly west. May their trip be blessed with the roar of a bursting tire or the wheeze of a missing cylin-

A few of the less fortunate (?) brothers have plans for the summer. Earl Tweedle starts with the Electrograph Advertising Service on June 1st. George Taylor is planning going to summer school at M. I. T., while Ed. Meyer will follow him in the Fall. The rest of the fellows have been busy considering the various student courses offered by the different companies.

May we who are Seniors go out into the industry and keep bright the lamp of Eta Kappa Nu!

W. J. PATTERSON. Associate Editor.

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Epsilon Chapter

Pennsylvania State College

The brothers of the Epsilon Chapter

hit the bright lights of Broadway. In other words the Penn State electricals are on the annual inspection trip and it seems that the more we see the less we seem to think that we know.

The men who were elected to membership at the spring elections from the class of 1926 are W. L. Kochter, son '26, Paul J. Kwasigroch '25, Ver-Robert Roush, J. E. Hogan, F. H. non E. Lemmer '26, Norman G. Rob-Waltz, Don Malpass, J. W. McLaughlin and Lester Beck.

> FORD C. PETHICK, Associate Editor.

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Zeta Chapter

Case School of Applied Science

The four articles on "Employment with Large Electrical Manufacturing companies" in the January issue of THE BRIDGE were very timely. In a recent conference on these articles it was brought out by some of the graduating seniors that their hunt for employment has been greatly helped by the ideas set forth in them. Many, of course, have no idea as to what they would like to do upon leaving school. The graduate is, at best, a wise fool among men who have been in the various lines of engineering practice for years. He needs something to educate him along the "rougher" lines of the field. The average technical graduate does not always realize this and a good "eye-opener" in the form of the articles presented is very helpful.

The Seniors are not the only ones to be benefited. Take the Junior who has a year to think things over yet. He needs all this time to weigh the different means of getting his practical training after he leaves school. These write-ups with the illustrations give him an insight into the "kinks and quirks" of a large company, and also as to what the company can do for them.

It is not always possible for a representative of every company that is looking for technical graduates to interview every man. Here again the

Zeta is strong for this information and wants to thank whoever conceived the idea of putting it in.

G. E. BURWELL, Associate Editor.

Theta Chapter

University of Wisconsin

Theta Chapter takes pleasure in announcing the election and successful initiation of Ralph R. Brooks '26, Clarence E. Hockings '26, Carl E. Johnisch '26 and Stanley W. Roland '26, into active membership.

After these men had successfully

passed the mental equilibrium test on a race horse with wheels, and had their sis losses tested, they were led to the fork and knife contest at the Capitol Cafe, where our worthy toastmaster, Prof. Price, after each one had won his particular contest, gave us a line which would compare well with any issue of College Comics, or Judge. But when finally all that was light had heen discussed, the assemblage went into solemn deliberation over the weighty technical papers presented by the initiates. It is surprising how much experiment and investigation, research and invention can be undertaken in so teristics of the two and one-half phase, interpole, chain grate stoker, proved losses of high tension fussers. In fact all the topics were far above anything heard before in any meeting of technical importance. Erv. Summers shivered his timbers to such an extent, that the yield point was easily passed, in fact point of rupture was close at hand; he was quite distressed. All in all the banquet was a complete success.

The initiates are the pick of the class; we congratulate them on their fine work thus far, may they keep up the good spirit.

We're going to have a dance, and Ole Steve Andrae has seen to it that it's going to be some affair; in fact when he hands one a ticket, he shows the back side first. The doings will take place in the Crystal Ball Room of the Hotel Lorraine. All other engineering honorary fraternities have been invited to take active part.

Finally, as regards the discussion of the articles in the January issue of ment in this type of article, that I can THE BRIDGE, it is the opinion that the offer, is that there might be a greater subject of the articles is certainly well comparison of the large and small developed, giving the absolute advan- electrical company. tages of the large electrical manufacturing concerns over the small ones.

It might be well to show in some article the comparison of types of work of manufacturing concerns and that of other types of electrical engineering. The undergraduate is often undecided whether to go into manufacturing, central station work and the like.

This is the last of the letters that I write to you as active member in Theta Chapter. I have enjoyed my participation as associate editor; always will I be eager to read the "next" is-

Theta Chapter sends greetings to all members and especially wishes success dielectric strength, corona and hystere- to those who are leaving the ranks of the active members and are going into professional life.

> EUGENE A. BERGHOLZ, Associate Editor.

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Iota Chapter

University of Missouri

The four articles on "Employment with Large Electrical Companies" proved of interest to the members of short a time. The operating charac- Iota Chapter. These articles have shown the advantages and opportunities of the large companies and have interesting and noteworthy, as did the undoubtedly helped some to decide bediscussion of hysteresis and corona tween the smaller and larger compan-There seems to be a strong trend among the electrical graduates for the larger companies. I think this is probably due to two reasons, first; that the average student does not know definitely what branch of electrical engineering he wants to enter, and chooses the large company because of the student course offered by them, where he has a chance to find out just what he likes best, and second; that he is afraid that if he goes with the smaller company he will lose the educational opportunity and the sense of competition with his fellow engineers, that he would have with the larger company. The articles have helped to confirm the beliefs of those that have already chosen the larger company and have portrayed what may be expected in the large company to those that have not yet decided.

The only suggestion for improve-

UEL SMITH, Associate Editor.

Kappa Chapter Cornell University

In a former letter I expressed the opinions of several of the members of Kappa concerning the type of article which is of the most interest and help to the members. It was stated that those which aid the seniors in particular are the ones which help him discover what kind of work he is best fitted by temperament, desire and ability to do, and to show him how he can best get into that line of work. Some of the types suggested were:

1. Those which show the characteristics necessary for success in definite

2. Those which indicate the kinds of work offered by the various industries, professions, etc.

3. Those which point out the engineer's opportunity and responsibility for service in civic and political as well as industrial life.

The four articles on 'Employment,' appearing in the January issue, came almost as a direct response to these suggestions, so it seemed, for in them was embodied practical advice of prime importance which comes at a time when the average senior is scratching himself behind the ear and literally saying, as Prof. Harding puts it, "What

Graduation from college happens but once to the majority of us, and it is a pretty dumb student who does not realize of just what import his rext step will be. These articles have been personally helpful to me, and I think to the majority of the brothers who happen to fall, with me, under Mr. Jennings' second class. Collectively they cover the several phases of the senior's problem quite thoroughly, and many helpful thoughts are suggested, many of which the average student has overlooked.

Mr. Jenrings' article in particular was worthy of mention, in my opinion, for it is a straight from the shoulder talk from a man who evidently has been thru the mill, and has learned to weigh values and to credit them with their true worth. He has sized the student problem exactly, and is to be commended for his excellent advice to the 'class two' man who doesn't yet know his own mird. The other articles too were very helpful and I know that all of the brothers in Kappa would greatly appreciate more information of this sort in future issues.

GLENN R. TAFT. Associate Editor.

Lambda Chapter

University of Pennsylvania

Lambda Chapter has selected four year. They are Herbert Estrada, W. Thomas J. Talley, 3rd. Because of the The informal iritiation was held on April 29, and on the following night the formal initiation and banquet was held at the Hotel Normandie. We are looking forward to having a number of alumni present on these two nights.

The January issue of THE BRIDGE was received at an opportune time, coming as it did shortly before the eight members of Lambda Chapter went on their senior trip. Consequently the four articles on "Employment With Large Electrical Manufacturing Companies" were particularly helpful. The articles were read carefully and kept in mind during the trip so that the contents of the articles were linked up with what was actually seen in the two large manufacturing companies visited. In this way a fairly clear picture of the industry was obtained although the articles alone could not present the complexity of the industry. It may be of interest to note that four members of Lambda Chapter have received offers from large electrical manufacturing companies.

F. L. STEINBRIGHT. Associate Editor.

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Mu Chapter University of California

Mu Chapter is on the jump! Seniors are struggling with that thesis and getting the laboratory reports in shape. However we're not so busy that we couldn't find time to have our H. K. N. dance on March 27th. Everything was fine and we were able to welcome a number of alumni back for the even-

Talking of graduation! It is getting mighty close to that time for us now and we're all tightening up for that last home sprint. Along with the graduation comes the question of work af- issue of The Bridge, were interesting, ter college. Professor Harding puts to the point, and designed to give a it right when he says "What next?" senior electrical engineer something to It is, with most of us, just that ques- think about. Between them, they suction and the four articles published in ceeded in giving a clear and fairly the January issue are good to help us detailed presentation of the nature of

settle that or at least start us to

We hear of the G. E. course, and the G. E. man comes to us and tells us about it. Similarly we hear of the Juniors to carry on the work next Westinghouse Course and the Westinghouse man tells us of his course. Willis Gilmore, John B. Lindsay, and But somehow these talks are not enough to clarify a graduate on his senior trip the initiations were de- exact wishes on the subject. With ferred until after the Easter holidays. such articles as you published in the January issue there comes a feeling that these courses are something that directly concerns the graduate and, if they are published early enough, there is opportunity to think over the situation before the representatives arrive.

There is one point which some of the men feel that you overlook. True, it is a side of the situation that is hard to present for no one wishes to be classed with the "kickers." In fact the "kicker" is not the type of man that we want to have writing for THE BRIDGE. That side of the situation is the disadvantageous side, the things which the men don't like. There never was and probably never will be a position without its disagreeable side. What we would like to know is what this side of the question is. Then a man will be in a position to feel sure whether the handicaps which he knows he will encounter are small or large from his point of view.

Another interesting side of this question might be brought out by brief letters from the new alumni who are in these positions. These men are not the ones who have as yet made the big successes, as is the case with all of the writers of articles, and their point of view would be very interesting and instructive. I do not mean to link this paragraph with the question of bringing out the disagreeable side of a position for such a method would

> D. W. CONKLING. Associate Editor.

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Nu Chapter Iowa State College

The four articles on "Employment with Large Electrical Manufacturing Companies," appearing in the January benefits to be derived therefrom.

of Nu Chapter, was the article by Professor C. F. Harding of Purdue University. Written with a keen in- everything that a student is desirous of sight into the problems of the engi- enquiring about as well as some sound tered upon a job for next year. Repreneering graduate, it carried some information on the test courses, and at the same time offered some good and ing conditions. The greatest handi- and I am happy to say that nearly all pertinent advice. His words regarding cap to a Southerner in going with a of the Eta Kappa Nu men have althe much discussed and feared "blind alley job" are worth noting:

"It is believed that a graduate engineer, who, as the result of good fortune or sheer determination and grit, has been able to be counted within the small percentage of the male population of this country of college age who have secured an engineering degree, must certainly hold at his command the will power to back out of an impending real or imaginary blind alley offers unusual opportunities to the accompanying success."

on this series of articles must be conginning his specific training early. fined to a request for more like them. Serving, in some measure, as charts of ready for a job this fact is a distinct four articles on "Employment With the unfamiliar country lying ahead, advantage. It allows a rather care- Large Electrical Manufacturing Comthese glimpses of the personal exper- ful selection of the type of training panies" in the January issue, the memiences and reactions of men who have one cares to follow. A student can be- bers of the chapter had a hard time "made the grade" are what the under- gin on the ground floor by applying thinking of any way the value of the graduate values above the vast amount the fundamental principles and thus articles to the undergraduate could be one and another of the self-elected ing of the physical and mathematical pressed with the suggestions and adprophets of our day.

Nu Chapter sends greetings to the your endeavors.

H. W. NEWLAND, Associate Editor.

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Xi Chapter

Alabama Polytechnic Institute

The articles on "Employment With last days will be busy ones. Large Electrical Manufacturing Comof the irdustry to specialize in. If he Another special feature is that the an- through a test course, but surely there

the student training courses offered by is with a large manufacturing com- rual Engineers' Day celebration will the larger companies, the ground pany he has a chance to work in the be held on April 24, in conjunction with covered by these courses, and the various departments and ought to be the Electrical show. We feel honored enabled to find something of especial that the Engineers' Day committee has Of special value, from the viewpoint interest to himself within a short decided to hold the Tea Dansant in the period of time.

The articles contained practically Engineering building. advice, yet we think that more should sentatives of a number of large comhave been said about the cost of liv- panies have interviewed the seniors company in the north is the problem of ready accepted positions. becoming acclimated.

W. D. MCLAREN, Associate Editor.

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Omicron Chapter

University of Minnesota

The field of electrical engineering if necessary and 'hit the line again,' technical school graduate who is just for further responsibilities and their entering the field. The larger companies realize the value of taking a In general, Nu Chapter's comments young man into their employ and be-

For the men who graduate and are of half-baked advice hurled at him by bring about a coordinated understand- improved. We were particularly imconception of electrical phenomena.

brothers in Eta Kappa Nu. To those some opiniors about the ease of get- written by a man who is in an excelwho cross the finish line in this first ting "lost" in large companies. It lent position to observe the progress heat of the race, next June, good luck bears testimony to the fact that the of many students, and in addition, has and Godspeed; may success attend good men rise to the top no matter gone through the test course of one where they start from. The oppor- of the large electrical manufacturing tunity to gain a varied experience of companies. The other articles, in our manufacturing processes and operat- estimation, form an excellent picture ing methods should attract many grad- of the industry ard give the underuates to the employ of the large com- graduate as accurate an idea of what

At Minnesota, the seniors have just be obtained anywhere. begun the last term of their college career. We fird however that these proved in value to the undergraduate

The special attraction this spring is should prepare himself if he intends panies," which appeared in the Janu- the advent of the Electrical show. taking a test course. It has been our ary issue were very helpful in pre- This show comes once in two years experience that the average senior senting a picture of the industry, and and this is our year to put it on. We chooses his electives in a rather hapit is the desire of practically every are working hard to make it the best hazard manner, even after he has been senior in engineering to become af- one ever held at this institution. We selected to take a test course. filiated with one of the large compan- have a wonderful new building in Of course, it is true he may not know ies. In nine cases out of ten the gradu- which to display the exhibits. The what particular thing he wants to ate has not decided upon what phase show will be held on April 24 and 25. specialize in until after graduation and

general laboratory of the Electrical

Much of our attention has been cen-

This is the final word from the members of Omicron Chapter of 1925. We have enjoyed helpful hints from THE BRIDGE and from the chapter letters.

The "best of luck and success" is what we wish for all brothers in

> H. A. WURZBACH. Associate Editor.

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Pi Chapter

Oregon Agricultural College

In response to the questions on the vice given the undergraduate in the THE BRIDGE articles helped to change first article, for the reason that it was to expect in the test courses as could

> The articles could possibly be imby laying more stress upon how he

are some electives which might help of article could have been more opportric and Manufacturing Company? him to decide or better prepare him to tune. enter a test course. Possibly some of the alumni who are now taking a test course could inform us with very little hesitation concerning the electives one should take.

Pi Chapter sends its greetings to its alumni and exterds to the other chapters its best wishes for the coming

K. B. AUSTIN, Associate Editor.

Rho Chapter

University of Colorado

finishes his college course. In painting drop around. a picture of his future work he is wont work will not be a bed of roses because Moor, the stars, and what not! he holds a degree from a technical

BRIDGE well stress the fact that a man to mind. They present mental pictures are too one-sided. They are written by must start at the bottom and work of the individual about to be gradu- men successful in this industry and so hard if he ever hopes to get anywhere ated, but possibly they do not offer an they could not give an unbiased opinin the engineering game. The advice immediate solution to the problems at ion. Brother Zerby in his letter pubagainst becoming discouraged by low hand. Some students desire continued lished under the "Bulletin Board" of wages and routine work is not appresstudy, but do not know fully, whether the January issue expressed our opinciated now, perhaps, as much as it will or not they are capable from the phy- ion on this subject. The "pro and con" be later on. Most of the men who are sical, mental, or financial standpoint of idea is necessary if the articles are to graduating realize the necessity for view, whereas others are only too will- be of real value to the undergraduate. further study, and the opportunities ing to begin their life work, if it may Other little points in regard to the mentioned for graduate study both at be termed as such. Mention is made January issue of The BRIDGE, -- We cer-Pittsburg and at Schenectady were of of the fact that representatives of the tainly missed the "Red Hot Rivet." especial interest.

in Rho Chapter that the article by Mr. question is, "Does each student receive vertising." C. S. Coler was the best of the four. an offer and an equally good opportun-This is probably due to the fact that ity?" The arswer is undoubtedly in for our last get together meeting this the article was so well illustrated by the negative. Appearances would in- year. April 25th is the date and Bro. photographs and curves. The informa- dicate that company's representative Sanford promises us a roaring good tion given by this article was more defi- might be slightly too critical and hence time with music a la radio and othernite and more nearly answered the a certain few are left out in the cold, wise. Other future bright spots for questions the mer have been asking whereas the least they might expect us before we separate and depart for themselves. The relative advantages would be a sporting chance.

DAN SUTHERLAND, Associate Editor.

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Sigma Chapter

Carnegie Institute of Technology a lively discussion took place when I

The first initiation of the present school term was held recently and six Manufacturing Companies" be disnew members were brought into our cussed. The outcome was as follows. midst. Five of the new Brothers are As a word of introduction, it might underclassmen and to them we dedi- be stated that the Engineering School cate the huge task of continuing the of the University of Cincinnati is on good work of an active chapter. We the cooperative basis with one month are desirous of having a second initia- spent at work and ore month in school. tion and banquet some time in the After five years work on various jobs Undoubtedly, one of the biggest near future, previous to the closing of during our work period, we come to a questions in the about-to-be engineer's school. The appearance of the Alumni very complete understanding of what mird is that of employment after he surely would be appreciated too, so type of work for which we are the best

to create a vision of an executive po- and it behooves us to get out and show the manufacturing game, then the sition almost immediately upon gradu- our ability as embryo engineers. The courses offered by the large manufacation. A few good articles by promi- general plan of decorations will be that turing companies would be an addinent engineers are not out of place at of exposition style, and our problem tional assistance in our training. Therethis time. They do, no doubt, help the will be to present artistic touches of fore, the articles in the January issue coming engineer to realize that his illumination-to compete with Mr. of The Bridge did not appeal to us as

various companies seek the services of Let us have some more of that type of It is the general opinion of the men the graduating seniors, but the big material and a little less of "free ad-

of employment with large and with The General Electric Company Beta Pi initiation banquet and the A. small companies was well brought out maintains a cooperative course at I. E. E. banquet. by Brother Seybold. Most of us had Massachusetts Institute of Technology Tau Chapter takes this opportunity that the large company possessed all not be a progressive step to have such alumni. the advantages. All of these articles a course at our own institution in conwere thoroughly enjoyed and no type junction with the Westinghouse Elec-

OTTO W. WILL, JR., Associate Editor

Tau Chapter University of Cincinnatti

In the last meeting of Tau Chapter, suggested that the four articles on "Employment With Large Electrical

fitted and what type of work we like Campus week approaches rapidly the best. If any of us should choose it would to the undergraduate of a The articles on "Employment With regular four year engineering course. Large Electrical Manufacturing Com- As for the articles giving the true pic-The four articles in the January panies" have brought numerous points ture of the industry, we think that they

We are now saving up our pennies various parts of the globe are the Tau

never thought of this question before, and the results seem pleasing from any in sending our best wishes to all gradbut had taken it as a matter of course viewpoirt. Why, therefore, would it uating Eta Kappa Nus and to the

> RALPH W. FOWLER. Associate Editor.

ALUMNI CHAPTERS

Chicago Alumni Chapter

cago Alumni organization during the past three months as will be evidenced from a study of our activities. On December 16, 1924, twenty-nine men turned out at the Chicago Engineers' Club to hear Brother G. H. Simmons of the Automatic Electric Company give a demonstration of his company's type of automatic telephone. By means stimulates interest in fraternal activiof a portable demonstrating set he explained the ins and outs of the automatic equipment showing how the dialing operation finds the stations desired and explained the advantages of the "step by step" system. He explained that, contrary to what might be expected, the maintenance of automatic bon Company, Chicago, furnished the telephone equipment is not any more entertainment jointly with Brother C. difficult than the maintenance of manual equipment. His talk was followed by a discussion which brought out Brother Spangler stressed the impormany points of interest.

On January 13, 1925, thirty seats in the center section of the mezzanine floor of the Cort Theatre were reserved for our theatre party. While the show "White Cargo," is not strictly appropriate for Sunday school children, the majority agreed that it is not nearly stories illustrating the importance of as bad as some have claimed. "Yes, we had some very good candy."

Radio is certainly a strong attraction for bringing out a good crowd, as was evidenced by the turn-out on February 10, 1925, at the Chicago Engineers' Club to hear Brother R. H. G. Mathews talk on present day radio developments. Brother Mathews is chief engineer of the Chicago Radio Laboratories and an old-time amateur radio man. He described the various receiving sets now on the market and illustrated the advantages of each. Some of the difficulties encountered in building a broadcasting station and the problems that arise in operating such a station were humorously explained by the speaker. The discussion which followed brought out the wide variety of radio search," by Brother S. P. Farwell, A interests that Brother Mathews is at '07, vice-president, The Business Represent engaged in. He took an important part in the daylight absorp- the chief attraction at our April 21 tion tests that were conducted at Es- meeting, held in the Brevoort Hotel. Alumni Chapter was held at the Unicanaba, Mich., at the time of the recent Brother Farwell was very well quali-

the year is as follows: March 10, line of work. At the present time he Society of that institution, who pre-

12, dance.

Things have been alive in the Chi- wish it all the success we can, in order gineer, and particularly the electrical to make it valuable to the fraternity.

> Chicago has been able to hold two very interesting meetings since the last number of THE BRIDGE made its appearance. The opportunity afforded at these affairs of meeting the older members broadens one's viewpoint and ties. Our attendance at these meetings has been excellent, due largely to the congenial quarters at the Chicago Engineers' Club and also to the prominence of the speakers at our meetings.

On March 10 Brother J. M. Spangler,

E '10 district manager, National Car-E. Stryker, D'17, electrical engireer, Fansteel Products Company, Chicago. tance of sales rather than engineering in the familiar title sales engineer. He related some of his own sales experiences gathered during his long association in the railway field; handed out a little advice; recited several new jokes; and told some rather amusing some points in the sale of any commodity. Brother Stryker explained the origin and development of the Fansteel Company, stating that they were first interested purely in the manufacture of turgsten contact points, later developing tantalum before any real application of this metal had been discovered. He explained that while making some experiments in electrolysis, using two electrodes of this material, it was discovered that no current could be passed through such a solution, resulting in the idea of using this material in a rectifier. Undoubtedly Brother Stryker's experience on the faculty of the Armour Irstitute of Technology enabled him to present this story in a very clear, concise fashion.

"The Engineer in Business Research Corporation, Chicago, formed Our program for the remainder of had an extensive experience in this of Honorary Electrical Engineering

social; April 14, formal initiation; May is engaged in a consulting capacity by the managements of the Insull proper-We feel that THE BRIDGE is worthy ties located in the vicinity of Chicago. of the support of all HKN men, and According to Brother Farwell, the enengineer, when dealing with electric light and power utilities, is best fitted to carry on work of this nature. In his judgment the engineer is even better fitted than an accountant who has not had technical training.

> This was also a joint meeting with Delta Chapter, urder whose direction a formal initiation was very well carried out. This served to impress upon the older members of the fraternity the remarkable appropriateness of the new initiation ritual. The comments made both during and after the affair were unmistakable evidence that the speaker, and also the initiation, were enjoyed by the members.

> Accepting an invitation tendered by the Milwaukee Alumni Chapter several Chicago brothers made a trip up to the Cream City on Saturday, May 9, to attend their regular meeting held at the City Club, on the third floor of the Merrill Building, 211 Grand Avenue, Milwaukee, Wis. The Milwaukee boys were able to put over something that was particularly interesting and attractive in the form of entertainment, and those who were forturate enough to avail themselves of this opportunity were not a bit backward in telling us about the good time they had in Milwaukee. We sincerely hope that we will be able to reciprocate next Spring by inviting our Milwaukee brothers to a special meeting.

> At this writing our plans also include a dance to be held some time in May, but as this is only tentative nothing definite can be announced at present. The results of the annual election of officers for the ensuing year will be announced in the November issue of THE BRIDGE.

R. S. KENRICK, Secretary-Treasurer.

Los Angeles Alumni Chapter

The 24th meeting of the Los Angeles versity of Southern California, Dec. 10. fied to speak on this subject as he has 1924, in conjunction with the members

sented for approval of our members a preliminary outline of the petition they pearing in the petition, and the assembly and presentation of their material seemed of the highest caliber, ber the Golden Rule. and after due consideration a motion was passed endorsing their proposed action. Copy of this motion is incorporated in the formal petition, signed by the develorment committee and officers of the Alumni chapter.

It is my understanding that this petition has now been forwarded to the N. E. C., and we heartily recommend favorable action by the N. E. C., and by active chapters, as the U.S.C. has not only made rapid strides, but gives promise of further advancement under the leadership of Brother P. S. Biegler.

The 25th meeting was in the form of a mountain trip with the Women's Auxiliary, consisting of the wives, present, future and possible, of local alumni. Ten men and nine auxiliaries turned out, took a 40-mile drive to the San Antonio Canyon camp of the So. Cal. Edison Co., Saturday noon, January 17, returning Sunday evening. Eatments were provided in toto by the committee, and cooking was done by volunteers. This, as usual, was a rather restricted list, but the dishwashers were even more exclusive. The crowd of engineers utterly failed to make the radio work, and their efforts were finally given up in favor of poker, mah jong, bridge and less strenuous forms of entertainment. It is rumored there was some question of sleep in the girls cottage, but all was serene among the men. Sunday was given over to hikes. trips to Ice House canyon where real snow was found-darn near 1/4 of an inch, in spots, and, for the rustics, a few games of hoss shoes.

Confirming the experience of our noble Editor, we received 9 replies to 33 invitations sent out for our partythe balance did not even return the latest address. For the supplies usually required, we guessed at some of the Old Faithfuls, used our imagination, and didn't waste a thing-but Lor' help us if an extra couple had appear-

We think we have two new names to add to the local list:

Fred C. Lindvall, A '24, Los Angeles Railway, Los Angeles, 666 S. Bonnie Brea, Los Angeles.

were preparing, asking for an active this, I would send it back, but I hope had a rather informal meeting at which local chapter of HKN. All facts ap- you have had a good dinner, feel at three of the members gave short talks.

peace with the world, have compassion

business have weighed so heavily I have been unable to report.

geles Alumni Chapter was a mixed ure in appraising public utilities therebowling party March 2d, attended by 17 members, wives, and friends. Many of the brothers were sadly out of prac- ity to get. tise, but all enjoyed a pleasant evening. No record of scores were retained, but it is doubtful if they would menace the records of the A.B.C.

April 1st we held a joint meeting at the University Club, with the Honorary Electrical Engineering Society of the University of Southerr California, who have petitioned our N. E. C. for an active chapter of Eta Kappa Nu. We were especially pleased at this meeting to have with us Brother S. G. Mc-Meen, Hon., who gave us a short outline of some of his interesting experiences in the field of telephony. We also welcomed Brothers Fred C. Lindvall, A '24, and H. S. Harris, D '16, who attended their first meetings with us. In all, 14 brothers and nine guests attended dinner, while at the same time 8 cf the "Ladies' Auxiliary" had dinner at the Lankershim Hotel, followed by atterding "Quo Vadis," a modern motion picture production of the famous work.

Plans were projected for a canyon picnic as soon as our rains cease. These here now, famous rains have have had a little in excess of "normal" power supply for the coming year.

B. G. HATCH.

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Milwaukee Alumni Chapter

H. S. Harris, D'16, Advance Paper was a week later than it should have ing example. "Boiled gently- the Box Co., 138 N. Clarence street, Los been, but it could not be helped as the letter E-a maker of bread,"-all of

Angeles, 415 S. Westlake, Los Angeles. speaker we planned to have address If my steno turned out a letter like us, was suddenly taken ill. We finally

Brother Huntley of the telephone with the H. & H. system and remem- company, told us about some of the difficulties encountered when more delicate and technical improvements are Compassion, sir, and forgiveness! made in present equipment. The per-Since our last meeting the cares of sonnel must be better trained and consequently better paid.

Brother Rust of the American Ap-The March meeting of the Los An- praisal Company, outlined the procedby giving us some information that most of us had never had an opportun-

> Brother Seeger of the Cutler Hammer Mfg. Company, concluded the program of the evening by his interesting talk on "Mechanical and electrical methods of stopping motors and the machinery propelled by them."

> Our last meeting was February 5, 1925 and as usual was held at the City Club. The speaker of the evening was Rev. Donaghey of the Marquette University. His subject was "Wilhelm Conrad Roentgen," whose life and work he discussed very well. We had two Brothers out at this meeting, who have not been around before-Brother Plank who is Superintendent at the Torren Restoration Hospital and Brother Osha, who is with the electric company of this city.

The Milwaukee Alumni Chapter got together for their annual card party at the Stratford Arms on March 5th. There were ten couples present, and those not attending, certainly missed a good time.

We started off the evening with a dinner at 6:30, after which we had a precipitated a total of slightly more short program before we settled down than 6 inches since July 1st, 1924. to the serious business of the evening. This is slightly in excess of our total Brother Andrae and his wife, furnished rainfall for 1923-24. Fortunately, the part of the program by arranging the High Sierras and Big Creek country prizes, etc., for the intricate game of "Cootie." Those not initiated need rairfall, which assures Sunny South- have no fear of the game, as the cootstamped, addressed cards giving their ern California of adequate water and ies are all on paper. George hastily rushed out to the desk to obtain prizes, and returned with two packages of cigarettes-one for the ladies and one for the gents. Apologies accepted, George.

> Brother C. T. Evans and his wife. kept the ball a rolling by supplying the next feature of the program. This took the form of an automobile guess-On January 15th we held our regular ing contest, in which twenty names January meeting at the City Club. This were hidden as is shown by the follow-

which means Studebaker. Another one, which we all thought was the hardest one of the bunch, was "To cross a stream." We leave it up to you. No prizes offered if you guess the answer.

We then made up five tables of bridge, and proceeded to let that occupy our time for a couple of hours. Brother Krueger's sister-in-law won the ladies' prize of a vanity case, and Brother Evans copped the men's prize of a bridge set of two decks of cards the "leather." We adjourned at about eleven P. X., bemoaning the fact that Christmas came but once a year.

At our last meeting, which was held at the City Club on April 2, we listened to an excellent talk by Mr. Fred S. Hunt. Mr. Hunt, chairman of the Public Utilities Acquisition Committee, spoke on the then proposed "Service at Cost Contract" between the City and Electric Company. Mr. Hunt and his Committee spent a number of years in formulating and negotiating this contract, and it was voted on less than a week after we heard Mr. Hunt talk, or arranged to have Brother V. Karapetoff on April 7th. The contract was de- appear before the chapter on February feated at the polls, which probably meant that Mr. Hunt hadn't talked to everyone in the city, for he was quite tures of which a musical demonstration a convincing speaker.

After Mr. Hunt left to fill another engagement, Brother Seybold of the Electric Company had a few words to say, and after that nearly everyone Kary says will make everybody think." had something to get off their chest, with the result that we continued to subject by saying that from his own hold session for about an hour and a observations he has noted that a lecture, half after Mr. Hunt left. A good time whatever its subject, was really a charwas had by all.

We hope to have a goodly number of our Chicago Brothers at our next meeting, which will be on May 9th. Invitations have been exchanged for the last few years, and it is our turn to reciprocate for the very enjoyable evening those of us who visited Chicago last spring, experienced.

We wish our Brothers in Eta Kappa Nu pleasant times during the coming summer months, and trust it will give orary) of the University of Illinois, J. for the meeting, and for the nerve to them pep for the coming year with its M. Bryant, A, (honorary) of the Uni- introduce such an innovation. The Convention and other numerous activ- versity of Texas, and Edward Bennett, motion was seconded and carried

JOHN M. NEWMAN,

New York Alumni Chapter

sults to date of our program committee consisting of Brothers Cota, Vigneron and Hantzsch. Their efforts brought forth Brother H. H. Norris at our meeting on January 8 and as might be expected we had a very interesting evening. Brother Norris was formerly head of the Department of Electrical Engineering at Cornell, then Editor-inchief of the Electrical Railway Journal in a leather case. We can't vouch for and is at present Educational Director for the Boston Elevated Railways. His talk on this evening had to do with educational activities in a few of the larger public utilities of the country, orable president, Bro. Merle C. Hale, emphasizing in particular the methods used and tried by the Boston Elevated Railways to aid their employees to improve and broaden themselves. In conclusion he invited volunteers from those present to outline any methods of educating or training that had been tried or was in use. A number responded to this invitation and from the number of questions asked there was no doubt that interest was maintained.

As a sequence to this Brother Cota 10. The subject of this talk was never divulged and out of the many conjecseemed most imminent there came a discourse on one phase of human nature which I will not try to name. However, Brother Norris was right when he wrote on his reservation card, "Whatever

Brother Karapetoff introduced his acterization of the lecturer's personality. He then pointed out his idea of "tolerance," illustrating and explaining what is meant by an individual's diately adopted by the Chapter, when

The talk was brought to a close with a poem which "Kary" said was inspired by strong desires which have never been year. Bro. Brooks moved for fines and fulfilled. The lines were read by Kary assessments to the aggregate of \$19.75 and certain of them repeated by the on Bro. Hale for his long absence, for assemblage in chorus.

O, of the University of Wisconsin and unanimously. We must say, however, Brother E. S. Lee., A '13, were the out- that Bro. Hale carried out his part of

for short talks. Brother H. H. Race, K '22, who is teaching to Cornell, was also present.

Upon adjournment of the meeting, those who were interested were given We feel highly elated with the re- an opportunity to visit the broadcasting studio of WEAF.

> The last three meetings which have been of a non-technical nature, have been very encouraging and it is preposed to continue through the season with this in mind. We have good reason to believe that our committee can keep up their good work and we shall be glad to have visiting brothers arrange to attend our meetings at the Telephone Club, 353 West 17th street, New York City, April 9 and May 14.

Another record broken! Our honhas managed with the grace of the gods to keep himself scarce for almost the entire period of his office, missing out by one meeting only, that of April. This was an evening of evenings, however, and the 34 who were present were well repaid for any efforts they made to get to the Telephone Club.

Bro. D. A. Lamont, who was scheduled to give the talk of the evening was, on account of business interference, at a late moment, prevented from doing so. Bro. Jackson was therefore called on and in spite of the short notice, he managed to formulate a talk which was, judging from the number of questions asked afterward, taken with considerable interest. He outlined in a general way what a patent is, what privilege and right a holder of a patent has, what is not a patent, etc.

Bro. Hale was called on to give a reacquaintanceship speech, and to furnish cigars for the meeting. He responded without urging. He gave very good reason for his long abserce, and brought to the attention of the Chapter several ideas for warming the meetings. One of these ideas was immeit was found that the Chapter was indebted to Bro. Hale for expense contracted for the last meeting of last certain of his remarks and jokes, for Professors Morgan Brooks, A, (hon- having to be asked to furnish cigars of-town visitors, who were called upon his suggestion with a broad smile,

which was broader yet when he had the opportunity to call a fine of ore quarter on yours truly for apparent inattention

Hereafter Brothers be careful of your words, and moods. If you say On Thursday evening, January 22, say nothing you may also be fined. No Seventh Avenue Hotel in Pittsburgh, on the viewpoint, by a dance put on by rest any longer for the wicked or the for a dinner and social meeting. About brave, but come out and see the fun thirty brothers turned out, and it didn't

eventful meeting, namely election of which was set before us. officers. The nominees who had been urer.

Watch us next year.

R. GUENTHER. SECRETARY

Philadelphia Alumni Chapter

The second meeting since the re-organization of the Philadelphia Alumni Chapter was held Friday, March 13, at The Rendezvous, 325 Camac street, Philadelphia.

Altho this meeting was not so well attended as our first one, the turnout that using one gram of radium valued was not at all discouraging. Every one at \$50,000, it would be possible to obseemed to thoroughly enjoy the dinner, but not nearly so much as the little entertainment that was held afterwards. We presented "The Mock fourth of the radium is used up. The Convention" that was sent to us by interest on the investment compounded our New York brothers and the wit at 6% mounts up to about ten to the and humor of it was greatly appre- thirtieth power (\$1030), and so we

last meeting before the summer recess to get three dollars worth of gold. be held Thursday, April 16, at The Guard Craftman's Club, 2027 Chestnut street, Philadelphia. Dinner will be first half of the year of 1925: Februserved at 5:45 p. m., after which the ary 18, smoker; March 17, theatre party will adjourn to the clubrooms where we have access to bowling alleys, pool, billiard and card tables.

In the meantime Brother Mason has appointed a committee with Brother J. L. Garrett as chairman, to solicit subreceive better support from Philadelphia than it has in the past.

PAUL T. CLINE,

Pittsburgh Alumni Chapter

something you may be fined, and if you the chapter gathered together at the take much urging to get the first There was some minor business at- event of the evening taken care of, tended to during the early part of this namely, that of disposing of the dinner

There being practically no business were elected unanimously, with the fol- president, Brother Baughman, introlowing result, when the smoke of bat- duced the speaker of the evening who tle had cleared away: R. A. Stroth- was Dr. L. O. Grondahl of the Union man, O '20, President; R. Guenther, A Switch and Signal Company. Dr. Gron-'23 Vice-Presidert; P. S. Darnell, L dahl reviewed the general subject of '22, Secretary; L. S. Neeb, Treas- the atomic theory which he had discussed at a previous meeting of the Pittsburgh Chapter, and continued further into the intricacies of the sub-

We were assured by the advance notices of the meeting that Dr. Grondahl would enlighten us as to the method of making gold out of mercury by changing the atomic structure as was recently published in the newspapers. He told us how this had been accomplished by certain German scientists, but from the economic standpoint, he showed that the process would not be of much value commercially. He stated tain three grams of gold worth about \$3 if the process were continued for 1000 years. During this time onereadily agreed with him that it would It was decided that our third and hardly pay to go to all the trouble just

The social committee presented the following schedule of meetings for the party (mixed); April 10, bowling party; May 12, informal party (mixed); June, dinner.

some real entertainment in the form of a banjo trio, consisting of Brother Lanpher and two non-members. After some good numbers by the orchestra. the foremost event of the evening took place. One's aesthetic sense was either satisfied or badly jarred, depending up-Brother Eddy, a la Gilda Grav. The din and excitement subsiding, the remainder of the evening was spent in playing bridge and "500". About 25 fellows turned out for the smoker.

A theatre party was held at the Davis Theatre on Tuesday evening, selected by the nominations committee to be taken care of at that time, our March 31st. The regular Keith vaudeville bill attracted a good crowd, there being a block of about fifty seats reserved for H. K. N. After the show. to complete the evening, the bunch congregated at Gammon's Waffle Shop for refreshments.

Vice-president Maxwell, Iota '24, is now acting president of the Pittsburgh Alumni Chapter due to the fact that Brother Baughman was unexpectedly called away from the Pittsburgh district on business for a period of several months or a year.

The next regular meeting is scheduled for April 17th. After a short business meeting at the Westinghouse Club, everyone will adjourn to the Casino Bowling Alleys where it is expected that all records for continued and consecutive low scores will

> L. W. CLARK. Secretary.

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Schenectady Alumni Chapter

After a more or less protracted period of, shall we say inactivity, the Schenectady Chapter of Eta Kappa Nu revived itself in honor of J. W. Weigt, Editor of THE BRIDGE.

A. S. Martin and D. O. Whelan, after considerable agitation in the form of posters and telephone calls, succeeded in bringing out a not too large, but nevertheless representative, group of alumni, who hied themselves to Sirker's Since the last chapter letter, we have restaurant on Monday evening, March had two A-1 meetings, the first a 23rd. When all had partaken of the scriptions for The Bridge. We sin- smoker and card party, and the second repast and settled back comfortably, cerely hope that our efforts will not be a theatre party. On Wednesday, Feb- we held a short business meeting and in vain and that The Bridge staff will ruary 18th, the gang held forth at the election of officers, results as follows: Westinghouse Club with a regular old President, D. O. Whelan, A'23; vice fashioned smoker, the main element of president, G. A. Drewett, P'22; secrethe ammunition consisting of Pittsburg tary-treasurer, L. A. Connelly, P'24; stogies. The Social Committee planned corresponding secretary, E. S. Lee,

Bowman, O'22.

ties, meaning that every alumnus shall all gather round for a good time arrive. ought to be a BRIDGE subscriber. Fur- and evolve more plans for maintaining thermore, an active alumni chapter an active alumni organization. out the country.

BRIDGE, between the various under- extend to all H. K. N. undergrads con- eral Electric Co., Schenectady, N. Y. graduate chapters scattered through- templating employment with the General Electric Co. an invitation to get

A'13; associate editor of BRIDGE, P. G. Our old timer, E. S. Lee, was on in touch with us beforehand. We shall deck and gave us a word of advice rela- be glad to answer any requests for Following the election our new presitive to our newly acquired enthusiasm advance information and will indeavor dent, Whelan, formally began his and plans for the coming year. Of to handle each one thru an alumnus career by introducing Brother Weigt, course he admitted that he knew "We" from the same chapter if possible. The who gave us an enlightening talk on wouldn't slump, but he wanted to same applies to newcomers who wish the ways and means of editing THE sound a note of warning by referring some assistance in getting their bear-BRIDGE. He stressed the necessity of to his past observations. On the ings after arrival. All that we ask in loyal support by the H. K. N. Alumni strength of the above we all agreed this case is that you inform us just a and their duty in assuming a part of that Secretary Connelly should record little before train time so that we may the financial burden of Society activi- May 7 as the next day on which we decide what to do with you when you

All letters should be addressed to Everett S. Lee, General Engineering forms a bond, supplementing THE We further agreed that our chapter Laboratory, Room 504, Bldg. 28, Gen-

> P. G. BOWMAN, Associate Editor.

Cross Word Puzzle Winners

We print below the correct solution of the cross word puzzle by Brother Kiesling, which appeared in Chicago, Ill. the last issue.

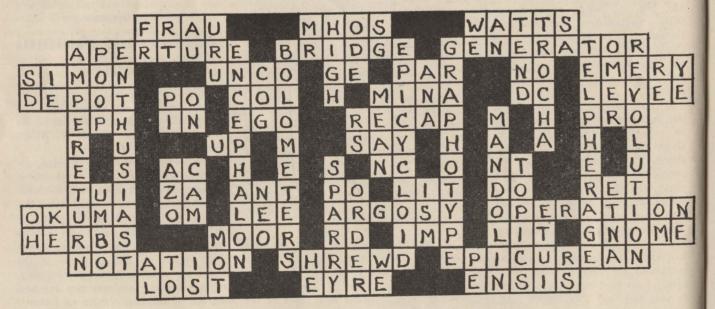
Four correct solutions were received. The lucky brothers who will receive a year's subscription to THE BRIDGE were:

W. R. Beach, Z '21, 958 Hana Bldg., Cleveland, O. M. S. Mason, A '11, 195 Broadway, New York City. only one or two errors.

H. M. Piety, D '23, 2025 N. Le Claire Avenue,

W. C. Pomeroy, M '18, University of California, Berkeley, Calif.

The competition was not as keen as we had expected and hoped for, but a very high degree of excellence was shown. All of the incorrect answers received had



ETA KAPPA NUS

And the time has come again The Brother's news to write; From a mere subscription blank or two We have a worthy task tonite.

I'd like to say to every man Something he couldn't miss; Something that would make him remember

Something which goes like this:

"T'would be great to have each Brother Share each other's thought, Your children, sweethearts or just your

Or that house you may have bought.

"How about that raise in pay Or this summer's vacation, too? You've something of real interest In everything you do.

"So Brother, make your presence known, We've space just saved for you: We'd like to find out where you've

The same as you would, too."

ROGER WILKINSON.

Brother Ernest White, M '23, has changed his mailing address from 123 Laurel St., Glendale, Cal., to 3212 LaClede Ave., Los Angeles.

Brother C. E. Plumb, N '21, has been transferred back from Mexico to 625 First National Bank Building, El Paso, Texas, at which place he looks after Company.

Brother R. F. Tickle, I '14, who became famous as a member of the Lost Soul column, must be given recognition Minneapolis, Minn.

When the New York Telephone Co. was looking for good H. K. N. material they picked up E. E. Brubaker, E '24, and already he is studying their trunking problems. He lives at 248 Garfield Place, Brooklyn, N. Y.

* * *

Recent dispatches are to the effect that Brother C. O. Bickelhaupt, T '11, is Vice-President in charge of operations of the Southern Bell Telephone Comadmit what his position might be.

* * *

The address of Brother William S. Andrews, S '23, has been changed from the Walter Reed General Hospital, Washington, D. C., to Ward D, Veterans Bureau Hospital, Chillicothe, Ohio.

stork left a precious 71/2 pound package Company, an advertising firm publishat the home of Morales and Verna ing telephone directories. "Have been Vendig at Roslyn, Pa. It was all set- with this firm since January 1st. 1923 tled beforehand and the package was and have been in the present position named Irene-which didn't make her since the first of the year 1924." He grandmother angry one bit.

Brother Fred E. Harrell, B '24, is aspiring to the rank of Sales Engineer in the organization of the Reliance Electric and Manufacturing Co., 431 S. Dearborn St., Chicago, Illinois. He says, "It sure is great to get the old time sheet marked under the heading 'joinal' and see what the fellows are of Designing Engineer to the A. C. doing-also enjoyed the articles on Engineering Department of the General employment."



The McVickers Theatre in Chicago has gained a reputation for the best pictures in town which we naturally

connect with the fact that Brother Mexican sales for the General Electric R. P. Burns is the projectionist there for the Famous Players Lasky. He desires THE BRIDGE sent to 3044 Leland Ave., Chicago.

as Secretary-Treasurer of the Engineer- ident of the Insulation Materials Coming Sales Co., at 126 South 9th St., pany, 565 Erie Building, Cleveland, Ohio. He lives at 10720 Orville Ave., Cleveland.

> Xi Chapter has been searching the remote corners of the world and this month cut their remaining number of Lost Souls in two. It is with pleasure that we print the following address of Brother Sherman L. Muths, Alabama versatile says Brother E. S. Scott, A 14, Power Co., Anniston, Ala. Good work, who is promoting the business of the Xi; just one more Brother to find.

pany, with headquarters at Atlanta, the General Electric Company at in from the two-thirds retail that the Schenectady, N. Y.

The American Gas Co., 712 Locust Brother F. R. Finehout, B '22, is do-Street, Philadelphia, has been capital- ing his duty to the oncoming generaizing the services of Paul O. Reyneau, tions as instructor in the Arsenal Tech-K '13, although he is too modest to nical Schools, Indianapolis, Indiana. After school hours Finehout wends his weary way back to 1221 E. York St., Indianapolis.



Brother H. C. Draper, I '21, writes that he is "at present division manager in the state of Montana

On November 5, 1924, the grand old for the National Telephone Directory added that on July 9, 1924, he was united in wedlock to Miss Hazel Lingo of St. Louis, Mo., and that their home address was 502 Mueller Apts., Butte, Mont.

> John M. Downie, O '22, turns in his Electric Co., Schenectady.

> > * * *

For a long time—some twenty years, in fact—we have been fascinated by the unique designs displayed so enticingly upon the cover of one of our favorite dissipations and marvelled at the ingenuity of the creator. And the anticipation connected with which was the probable right end to open! At last we have located the man to whom we can express our heartfelt appreciation-and do so: None other than Brother George R. Kuhns, Th '13, draftsman for the Cracker Jack Co., Brother Albert J. Loeb, B'07, is pres- Harrison and Peoria Streets, Chicago. Long live THE PRIZE PACKAGE!

> Brother Vincent Pagliarulo, D '12, holds the position of development engineer with the Western Electric Co. at Hawthorne, Ill. His residence address he gives as 5533 Maryland Ave., Chi-* * * *

* * *

A graduate electrical engineer is very Mountain States Mixed Feed Co., Denver, Colorado, as the mill superinten-Brother L. T. Folsom, M '24, is with dent. We wonder how much he pulls farmer doesn't get. Tell us!



engaged him as facility engineer (what- 5th St., Minneapolis, Minn. ever that is) and the Brothers passing through or stopping in Berkeley, Cal., Helen B. Starratt.

Brother L. P. Richmond, T '23, is a usual. student engineer in the radio department of the General Electric Co., Schenectady, N. Y. He helps raise the roof every night at 21 Governor's Lane, Schenectady, N. Y. * * *

Epsilon Chapter extends its best regards to both Brother and Mrs. Nelson dresses: Brother W. J. Ladwig, T '20, S. Hibshman at South Bethlehem, Pa. 8371/2 34th St., Milwaukee, Wis; Brother the position of engineer for the West-Hibshman, E '24, is now an instructor C. F. Kottler, T '18, 1226 Oakland Ave., ern Union Telegraph Company, 195 at Lehigh University.

department of the General Electric Co., something to do with moving. Schenectady, N. Y. He lives at 14 N. Ferry St., Schenectady.



the wedding bells ring out. Brother E. R. Hendrickson, B '24, acquired a

Mauck of Renssalear on October 18, 1924. They are enjoying married life at 620 Julian St., Waukegan, Ill., Hendrickson being connected with the Public Service Company of Northern Illinois.

research work at Pennsylvania State College, State College, Pa.

Brother Paul T. Cline, E'24, is in the employ of the Bell Telephone Company of Pa. and lives at 100 Linden Avenue, "when the toil of a long day is o'er."

engineer in the distributors' department eyes of Brother W. O. Lippman, E '18, can no doubt take off a few minutes of the Northern States Power Co., Lin- and appointed him as Chief Inspector from his job as resident agent of the coln Bk. Building, Minneapolis, Minn. for that company in Springfield, Mass. General Electric Co. to get any Brother

> Brother L. A. E. J. Mangney, O '21, has assumed success in the most elite circles. Ashley, M '22, as his vocation—incidentally he makes writes that the Pa- a living at it-the job of convincing cific Tel. & Tel. the people of the Gopher state that no engineer with the firm of Day and Co., 335 Fell St., juice is so good as that generated by Zimmermann, 1600 Walnut Street, San Francisco, has the Northern States Power Co., 15 So. Philadelphia.

just announced his betrothal to Miss permanently transferred from San George C. Harness, B '22. Francisco to Los Angeles where they state that the weather is as usual-un-



are some new ad-

Milwaukee, and Brother D. J. Blattner, Broadway, New York. T '18, 1080 Murray Ave., Milwaukee. Brother George S. Lunge, M '22, is in This name Milwaukee seems to recall * * *

> J. LaRue Garret, E '24, is with the Bell Telephone Company and gives his Philadelphia, Pa.

Brother F. E. Harrell, B '24, is makhis fortune with the Reliance Electric Company, Cleveland, Ohio, at which ager in Miss Lucy place his address is 15245 St. Clair St., Research and Investigations of the N. E.

Modern Research took a couple lunges forward when John L. Howie, Jr., A '22, 6735 Fullerton Street, Chicago, was induced to do some special investigation for the Kellogg Switch-John W. Heim, E '24, is now doing board and Supply Co. of that city.

> We wish to chronicle the change of at Iowa State College, in charge of address of Brother J. T. Jackson to c/o Research and graduate students. He Wagner Electrical Corporation, 1720 may be reached by addressing letters Callowhill Street, Philadelphia. * * *

Collingswood, New Jersey. Besides Brother S. H. Dent, X '20, informs making the wires talk in the day time, the Brethren that he escaped injury to Cline keeps his pencil hot as secretary person or property during the recent Ostend Streets, Baltimore, Md., is reof the Philadelphia Alumni Chapter razing of part of Florida's show sec- ceiving the benefits from the employtions. His address at 1207 W. Flagler ment of Brother F. V. Ulrich, K '22 Street is well worth pasting on the who lives at 4114 Fernhill Ave., Balti-The Westinghouse Electric and Manu- calendar opposite the days of your more.

H. W. Wahlquist, O'21, is assistant facturing Co. has capitalized the X-Ray vacation to be spent in Miami as Dent started properly on the road to social

Brother W. A. Kates, Th '21, is an

The superintendent of transmission R. W. Miller and T. H. McMurray, of the Pennsylvania Power and Light are requested to look Ashley up at 2001 both Mu '21, who are with the Pacific Co., at 117 E. Broad St., Hazleton, Pa. Allston Way. Shh! FLASH: He's Telephone and Telegraph Co., have been has selected as his assistant Brother

> Both R. O. Eaton and L. F. Rodewig, Z '22, have decided that their fortunes lay with the General Electric Co., at There seems to Schenectady. Eaton helps earn divibe a mania for dends as a design engineer at Room moving around a 304, Bldg. 18A, while Rodewig figures lot, instilled in the up how much they should be in the Theta men. Here capacity of commercial engineer.

> > Brother E. M. Rickard, K '21, holds

S. L. Muths, X '22, is assistant superthe switchboard requisition engineering some fond memories. That may have intendent of the eastern division of the Alabama Power Co., in charge of high voltage transmission lines.

> Brother H. G. Bartee, X '21, is dis-Once again let address as the Acacia Fraternity House, trict engineer for the Southern Bell Telephone and Telegraph Co., with headquarters in Atlanta, Georgia. * * *

> > Word comes that Brother J. B. Straw, Assoc., is now in the department of Philadelphia Electric Co., 2301 Market St., Philadelphia, Pa.



Professor J. C Clark, Hon., writes that he is associated with the Department of Elec trical Engineering

to E. E. Dept., Iowa State College, Ames, Iowa.

The F. X. Ganter Co., Sharp and

the Philadelphia Sub. Gas and Electric Menominee, Michigan. Co., at Wyncote, Pa.

Over in Salt Lake City the General Electric Company needed a hustling sales engineer, so they called on Brother L. J. Battey, A '21, to swell their yearly income. At times other Salt Lake City.

Plant engineer for the Cumberland Hinds Co. Telephone and Telegraph Company, New Orleans, La.

Sunset on Sunday afternoon, January 4th witnessed the wedding of O. R. Marston, Mu '16, to Miss Margaret Garthwaite at St. Paul's Episcopal Church in Oakland, California-where rail and water meet.

Carl Philippi is doing some research work with Dr. C. G. Fink, Columbia ardo, N. J.

* * *



Brother O. L. Wood, K '23, was married on October 9 to Miss Madeline Gazley in White Plains, New York.

The couple is now living at 60 Helderberg Avenue, Schenectady, N. Y., while process for the General Electric Co.

facturing Co. claims Brother J. O. Sher- in Room 500, Edison Building, 72 W. hard, G '22, where he is located in the Adams Street, Chicago. motor engineering dept. with heavy traction motor design as his specialty. Sherrard lives at 539 Jeanette St., Wilkinsburg, Pa.

Brother J. Stannard Baker, Th '22, has severed connections with the General Electric Company at Schenectady, and assumed new responsibilities doing advertising work for Fairbanks Morse and Co., with headquarters at Chicago. At present he is located at the Indianapolis works at 2026 Northwestern Ave., with residence at 2356 No. Pennsylvania Street.

* * * the General Electric Co., is now in the Harper Ave., Chicago, Ill.

Fred T. Bear, E'22, is in the electric employ of the Menominee and Marion- Brother A. M. Dowling. X'20, is in

ale ale de



than when expounding the superiority Huron St., Chicago, on February 7, immediate beneficiary in this respect of the G. E. products Battey may us- after a five months' residence in the is the York California Construction ually be located at 69 N. State Street, East. From Philadelphia we have heard Company, 5051 Santa Fe Ave., Los reports that the Curtis Lighting Inc., Angeles. has lost one of its brightest illumination Brother G. A. Muths, X '22, is Line sales engineers. He is with Crouse-

> was so profusely scattered throughout it to circulation managers of magazines a recent issue of The Bridge, has re- that live by virtue of public favor." turned to the Pacific Telephone and However we still think that Kerr is a Telegraph Co. offices of the district darned good guy 'cause he accompanied plant engineer.

> > * * *

Illinois, informs us that Brother John forced to wait in the hall at 61 Fifth F. Carper, A '09, and his family are St. North, Portland, Oregon, while he living in the city of Ft. Madison, completes a million dollar sale for the University, New York City. He desires Iowa, where Carper is engaged in work Pacific States Electric Company. his copies of The Bridge sent to Leon- on the automatic train control which the electric department of the Santa Fe Railroad is installing.

> he is a testman for the General Electric that he is working on a new compound Company at Schenectady, and lives at vanity case, expressly designed for the 537 Liberty St.

* * *

The Commonwealth Edison Company Wood performs some experimental at Chicago knows well the quality of work on the Emmett mercury vapor men that Purdue graduates and naturally picked out Brother R. J. Patterson. B '23, for one of their engineers. He The Westinghouse Electric and Manu- keeps his slide rule and scratch paper * * *

> Brother M. B. Bogarte, B '08, elected to pass on some of his learning to the new generations and does so in the office of head master of the Terrill



Brother D. E. Rich- Wright.

ardson, D'24, who hands out the daily E. E. problems. He takes the supposed The present address of Brother R. Rudolf Heins, Th '22, formerly with answers home to puzzle over at 6319 D. McWha, R '24, is 4 Willett Street,

plant department as an engineer for ette Light and Traction Company at the employ of the A. T. & T. Co. in New York City. He lives at 260 82nd. St., Brooklyn.

> Brother G. H. When it comes to selling things the Kelley, D '22, re- Brothers will do well to look up the turned to his na- record of H. J. Roblee, Z '19, who can tive haunts in the make you want to buy anything from vicinity of 5049 the Boardwalk to Long Beach. His

Brother E. M. Kerr. I '20, writes in red pencil (red denoting anger), "I think the letter of Mr Irwin's is a L. A. Ashley, Mu '21, whose name 'mean' letter and I wouldn't recommend his cruel words with a check (which we were able to cash). Brothers wishing to Our resident correspondent in Buda, sympathize with him will probably be * * *

Brother Wm. B. Dehr. A '22, is an engineer in the outside Plant division of the Illinois Bell Telephone Company, Leon T. Folsom, M '24, writes that and the best information at hand states use of linemen, and guaranteed to withstand wind, moisture and sidecutters. The patent is pending as yet.

* * *



Ernest V. Strack, K '22, was married to Miss Elinor M. Watson in Lewiston, N. Y., on July 28, 1924, and after

a delightful honeymoon trip included in which was a canoe trip crossing New York state via the Erie and Barge canals and the Mohawk river and then down the Hudson, the couple have made their home at Spring Valley, N. Y. School, 4217 Swiss Ave., Dallas, Texas. Brother Strack continues to wrestle occasionally, having annexed the United The undergrads States Army middleweight championat Armour Insti- ship and was runner-up in the heavytute are now slav- weight class at Baltimore last spring. ing under the He barely escaped participation in the instructorship of Olympic games by losing to Walter D.

Schenectady, N. Y.

C. Threlkeld Commissary, 710 Equit- lished. amle Bank Bldg., Los Angeles.



game for some months with the Brook- bama. lyn "Y" as a bit of influencing environment, he confesses that, although the bit at first, now he can hold his own Monica, California. with any hardboiled chicken that ever set leg and ankle on Broadway.

Brothers N. C. Bloye, C. H. Osha, D. J. Withers and J. L. Ravnor, all B '24. are now employed by the Milwaukee Electric Railway and Light Company, better known as the T. H. E. R. & L. The alumni chapter of Milwaukee has expressed the hope that these Brothers will find time to attend their meetings.

George E. Schweitzer, Epsilon '20, holds the position of engineering assistant in the plant department of the is Factory Manager for the G. W. Davis Bell Telephone Company of Pennsyl- Motor Car Co., 12th and N. E. Sts., vania, located at 261 N. Broad St., Philadelphia.

E '15, is now in service at Fort Ruger, good old U.S.A. While Cuba may be

which is published by the McGraw-Hill there and his home in Wheaton, Ill. Company of California at 883 Mission

Stryker, D '17, electrical engineer for Lead-Covered Cables was the title se- N. J.

Just as further proof of the fact the above firm was the perpetrator of lected by Brother Everett S. Lee, A '13, that an engineering education is this horrible crime and has burst into now of the General Electric Company, broadening if not taken too seriously, print by writing an article "Charging and concerned itself with "a study of Brother Scott R. Ruby, M '22, decided Railway Signal Batteries," which ap- the value of the present methods of that his talents were a divergent series peared in the February issue of Rail- cable testing and suggestions as to the as far as technical research was con- way Signalling. The seriousness of methods which should be continued to cerned, and became steward at the M. said charge has not as yet been estab- obtain the most trustworthy evidence

Good Work Xi! What's it all about? Brother G. S. Another Lost Soul has been stricken Branson, B'17, of the A. T. & T. Co. Bibbins migrated from the rapidly dwindling list of the from Kappa chap- strayed Brethren. The one who has ter and was im- thusly brought fame to his chapter is mediately snapped J. Alex Harrison, '22, and we are Small-Gauge Cables, being a descripup by the A. T. & T. Co. last fall, and pleased to record his address as 1722 tion of a new telegraph system which now after having studied the telephone North 14th Ave., Birmingham, Ala- may be superposed on toll telephone

Brother Briggs O. Brown sends us 'phone operators fussed him quite a his address as 528 Euclid St., Santa



This line should carry a picture of a swell motor car driving up Main Street (or is it

diana, bearing the occupant Brother cause he has devoted a great deal of L. H. Hazard, A '07, to work at 10:30 A. M. Not having either a cut of a swell car or one of a man riding in anything at that time of day, we can Richmond, Indiana. * * *

Another Brother has recently re-Brother Captain Wm. R. Stewart, turned to his former residence in the a bright spot on the horizon for some Brother Roy N. Phelan, M '22, has thirsty unfortunates, Brother L. L. recently resigned his position as Sec- Ruggles, B '18, decided that Chicago retary-Treasurer of the Electrical and vicinity was moist enough for him. Contractors' and Dealers' Association He is still with the Automatic Electric

Street, San Francisco. To go with At the midwinter convention of the the change of business, Phelan an- A. I. E. E., Eta Kappa Nu was ably nounces his new domicile as being at represented in the varied program held 2512 Lincoln Ave., Alameda, California. at the Engineering Societies Building, 33 West 39th Street, New York, Feb-Forsaking a berth on the faculty of ruary 9 to 12. On Tuesday morning, Ohio. Armour Institute of Technology as as- February 10, the session was turned sistant professor of electrical engineer- over to the committee on power transing to engage in research and develop- mission and distribution, and they in the N. Y. Edison Co., 44 E 23 St., New ment work for the Fanstell Products turn selected such representatives of York City. He samples nearly all kinds Company, North Chicago, Illinois, is their field as best could cover the items of New York transportation facilities just exactly what one of our illustrious of major importance at this time. when plying between work and play, Brothers has done. Brother C. E. Testing Impregnated-Paper-Insulated the latter at 27 Watsessing, Bloomfield,

which it is possible to get at the present time." On the following Thursday afternoon, Brother D. E. was a member of a group of three who presented the subject: Metallic Polar-Duplex Telegraph System for Long circuits, and having its operating current of the same order as that of the telephone circuit on which the telegraph is superposed.

Patent Law must be a bewitching subject, for its charms have led Brother A. A. Hofgren, D '18, first vice-president N. E. C., to switch from sales engineer in the Industrial Department of the General Electric Company's office in Chicago to patent Oriental Boulevard) in Richmond, In- attorney. His success is assured beattention to the subject during recent vears.



Brothers, here's some real news! Shirley Spangler -Born January 5 1924.

Time-5:09 p. m. (central standard time).

Weight-7½ (pounds, not ounces). Color-Black (the eyes of course! Maybe her hair is black).

Proud Daddy-L. A. Spangler, N '24, 1619 Columbia Ave., Chicago, Ill.

Brother Phillip J. Kent, K '14, has of Sacramento, to become an associate Company, 1009 West VanBuren St., been made accessory engineer with the editor of the Journal of Electricity and maintains a daily schedule between Maxwell Motor Corporation in Detroit, Mich.

> The Ohio Bell Telephone Co. came in for another good man and picked out Brother S. E. Shilling, G'18, and has advanced him to the present level of District Traffic Superintendent, Canton.

Brother W. C. Bloser, E '19, is with

F. L. ReQua, T '17, reports that he is now a sales engineer for the H. B. Squires Company, 583 Howard St., San Francisco.

Schenectady, Brother F. H. Brehob, B '23, is satisfying his tastes for the aesthetic and beautiful. He comes down to earth again as he arrives at his "den" at 833 Locust Ave., Schenectady.



Lester E. Reukema M '22, has assumed

desires The Bridge sent to 2234 Haste Lowell, Springfield. St., Berkeley, Calif.

Brother H. A. P. Langstaff, D '12, has charge of all relay protection and switchgear on the entire West Penn system, including over 3,000 relays and 300 oil circuit breakers of the West of the Saint Paul Association of Public burgh, Pa.

* * *

Brother E. P. Carpenter, M '23, is in business with the Pacific Tel. & Tel. Co. in San Francisco, and rides his new ten-ton airplane to work each morn from 1912 Berkeley Way, Berkeley. (That's probable isn't it? I read somewhere that they have lots of high flyers out in California.)

St. Paul, Minnesota, goes out for his Ohio. round of golf, he does so with the knowledge that the business is in the Taylor, T '14.

* * *

* * * Brother J. W. Creasy, I '14, was No. 7, Milwaukee. transferred to Kansas City, Mo., on January 25th and will take up his duties in the office of District Plant Superintendent, for the Long Lines Dept., of the A. T. & T. Co.

C. E. Broders, Th'14, is a design and Spring Co., 1846 E. 40th St., Cleveland, gent St., Madison.

* * *

rily to work for Louis, Mo. the Western Union

In the Railway Locomotive Engineer- Telegraph Co., but the last time we ing Department of the G. E. Co., at saw him he was spurning the caresses electrical engineer for the Consolidated of several near Gloria Swansons in a Gas, Electric Light and Power Co., Brooklyn theatrical performance which Constitution and Monument Streets, has since made him famous * * *

> Brother Samuel A. Berg, O '21, is an engineering assistant of the Brooklyn Edison Company and puts up with "the Another Brother gang" at Central YMCA, 55 Hanson destined to be poor! Place, Brooklyn, N. Y. * * *

W. T. Burnett, A '05, is in the enan instructorship in gineering department of the Sangamo electrical engineer- Electric Co., Converse Ave. and No. ing at the University of California. He 11th, Springfield, Ill. He lives at 1836



broad field of elecindustrial director

Penn Power Co., 14 Wood St., Pitts- and Business Affairs is none other than taking the world by the tail and doing Brother R. A. Lockwood, 1567 Osceola a little twisting as chief engineer of Ave., Saint Paul, Minn. * * *

> Brother William F. Cassedy, Jr., K '21, is a superintendent and foreman for Foote Pierson and Co., Inc., 160 Duane St., New York City. He lives at 2600 Boulevard, Jersey City, N. J. * * *

felt the need of a good engineer so they engaged the services of Brother D. F. When the General Manager of the Pancoast, Z '20, who has his office at Cities Service Oil Co., Hamm Bldg., 1053 Union Trust Building, Cleveland,

Brother L. J. Rust, A '16, is employed competent hands of Brother A. R. by the American Appraisal Co. at 165 Michigan St., Milwaukee, Wis. He makes his home at 501 Cass St., Apt.



the words VICE Gillmore, Z'20, has PRESIDENT engraved on his office door at the Ohio

sales engineer for the U.S. Automatic Ohio. When he has finished outlining Shift Co., Madison, Wis. (This is but the company's policies for the coming distantly related to football technique). ten years, Brother Gillmore retires to Broders makes his home at 1706 Re- 3352 Ormond Road, Cleveland Heights, U. S. Reclamation Service, and is lo-Ohio.

Brother A. W. E. J. Guengerich, I '12, is with the Breyfogel, A '22, S. W. Bell Telephone Co., and is locame East prima- cated in the Boatmen's Bank Bldg., St.

> Brother Chas. S. Fiske, K '21, is an Baltimore, Md.

Brother Homer Churchill, B '23, is an engineering assistant in the Public Service Production Company, 80 Park Place, Newark, N. J.



The Pennsylvania Power and Light Co., 802 Hamilton St., Allentown, has an-

nexed the services of Brother Wilmer P. Holben, Ep '16, and to date he has Once again the arrived at a position as assistant to the district engineer. After developing trical engineering plans for making more money for the is broadened fur- company and himself, Holben retires ther—the assistant to 610 No. 11th Street, Allentown.

> Brother M. H. Cook, A '21, is already the Wolff Mfg. Corp., at 255 No. Hoyne Ave., Chicago. He makes his residence at 203 So. Kenilworth Ave., Oak Park, 111

Another Brother trying to get the jump on us by brushing up on the fundamentals. Harlan Palmer, R '22, is an instructor in engineering math-The firm Warren D. Spangler, Inc., ematics at the University of Colorado.



Brother C. T. Evans, G '08, at the last meeting of the Milwaukee Alumni Chapter, expressed a desire

to see THE BRIDGE publish cross-word puzzles, and also to continue the "Red Hot Rivet." Those present at the meeting, according to dispatches, decided that perhaps the former might not be Brother W. F. so appropriate, but unanimously approved the latter suggestion.

> Another Wisconsinite has gotten the fever too, so we give Brother L. R. Vautrot's, K '12, address as 388 5th Avenue, Wauwatosa, Wis.

* * *

Brother John A. Lee, R '22, holds the position of Electrical Engineer with the cated at Pavillion, Wyoming.

the plant of the Schwartz Hotel Co., Elkhart Lake, Wis., of which institution Goldammer is secretary and treasurer. 'Twould no doubt be a good point to investigate whether "special" is up or down.

Brother Casey V. Loomis, T '22, is a student engineer with the Allis Chalmers Co., Milwaukee, Wis., and lives at 1530 Grand Ave., Milwaukee. * * *

Word comes that Brother H. L. Hardaway, I '22, is engaged as a fuel buyer for the United States Gypsum Company, 205 West Monroe St., Chicago. His address is given as 5337 Woodof the company, he probably sees fit to move every few days or so.

Brother H. C. Draper, I '19, is manager in the states of Utah, Idaho and Montana for the National Telephone Directory Co., at 212 Kearns Building, Salt Lake City, Utah.



As a further inducement to spend vacations in the rolling wooded sections of Wiscon-

sin, we present Brother A. E. Rice, T '20, the secretary and treasurer of the State Amusement Co., at 2614 State Street, Milwaukee.

* * *

The Illinois Bell Telephone Co. is profitably employing Brother J. E. King, O '22, as an equipment engineer. He works at 212 West Washington St., Chicago, and carries carfare sufficient to take him back to Wheaton, Ill., of an evening.

Service Company, Irvington, N. J., reports a new address at 802 So. 15th St., Newark, N. J.

Robert C. Rome. O '22, is located with the Northwestern Bell Telephone Co., 1101 Tel. Bldg., Omaha, Neb. He himself on January 29th to Brother Brother Lawrence E. Weber, Epsilon lies awake nights at 4185 Chicago St., E. M. Brown, M '21. Our latest advices '21, is an engineer in the Central Stathinking about the morrow's problems assure us that both E. M. Junior and tion Department of the General Electric in traffic equipment engineering.

Spend your summer at one of the Brother O. E. Sinclair, A '17, holds most beautiful lakes in the playground the position of valuation engineer with of the World! (Ad in the Elkhart the Public Service Company of North-Lake Horoscope). Brother Chas. J. ern Illinois, with offices located at 72 Goldammer, Th '17, announces that West Adams St., Chicago. He says special rates will be made to any H. K. that commuting is good from his resi-N. men who can be induced to stop at dence at 828 Washington St., Evanston.



investigation and perusing of court records, the special detective correspondent of THE BRIDGE has been able to bring some light upon the matter, and Ohio Railway, and past chairman This sad news is being published for of the Signal section of the American the first time, and much as we are Railway Association, is at present busy alarmed at the turn of affairs, it is only writing the signal section for the fitting that the entire Brotherhood should be informed of the tragedy, that Cyclopedia," the railroadman's bible. they may all join in the sobbing chorus: lawn Ave., Chicago, but from the name "Why did he ask that gal." Our admiration is always excited when the don't fail to look for the illuminated companionship of one so fearless has handaxe sign, blaring forth the wares been enjoyed, and the more so upon of the Clark Hardware Company. It receipt of the information that silver- fails to mention the all important fact ware is being purchased at Tiffany's, that Brother W. J. Bemus, K '20, is clothes at Lord and Taylor's and house serving the prosperous community furnishings at Wanamaker's by a mere through the above worthy retail busitelephone man. As yet the special ness. Bemus lives at 117 Broadhead agent has not been able to reveal the Ave., (at the other end of town from mysterious formula but will certainly the handaxe). pass it on if any of the clues now being run down come to any fruitful termination. Brothers, let us present R. Guenther, A '23, of the A. T. & T. Co., and newly elected vice-president of the New York Alumni Chapter who will combine his fortunes with those of Miss D '17, chief engineer, Chicago Radio Ethel Reynolds of Long Branch, New Jersey, in the very near future. The festive event is scheduled to be run off at the lady's home on April 22, 1925, and marks the culmination (we almost said turning point) of a several years' romance of the highest order. We congratulate. To date Brother Guenther has not appeared with any cigars at the H. K. N. meetings but it is understood that first the initial payments Brother H. Nakamoto, K '24, who is on the above home accourrements must a laboratory assistant of the Public be satisfied. We thank him in advance. now with the Pacific Telephone and * * *



Earle Monroe Brown, future H. K. N., of the class of 1947, weight ment at San Francisco. 8 1/4 lbs., presented

Senior are doing very nicely.



Brother R. H. Tunell, O '22, has worn out many a lead pencil scratching his head since

he took up researching in the circuit laboratory testing department of the Bell Telephone Laboratories at 463 West Street, New York City. After Lately a good such an exasperating day of original deal of scandal thought Tunell staggers up through has been wafted Greenwich Village for a round or two about by the ocean before riding the underground limited scented breezes of to 318 West 57th St.

> Brother B. T. Anderson, A '07, superintendent of signals of the Chesapeake "Railway Engineering and Maintenance

When you go to Jamestown, N. Y.,



One of the bright stars in the present radio firmament is Brother R. H. G. Mathews,

Laboratories, designer of the Edgewater Beach Hotel broadcasting station (WEBH), Central division traffic manager for the A. R. R. L., and old time radio man (9ZN). One of his latest activities was in connection with the recent daylight absorption tests made at Escanaba, Michigan, at the time of the solar eclipse.

Brother Norman Powne, P '21, is Telegraph Company in Santa Rosa. * * *

* * *

A. G. Smith, M '16, is also with the P. T. & T. Co. in the personnel depart-

* * * Company at Schenectady.



deep. In the En- way, New York. gineering Department of the West-

into the intricacies of the development St., Green Bay, Wis. of machine switching telephone equipment. He goes home to 5002 West Madison St., Chicago, Ill., to ponder upon the morrow's complication of line finders, selectors and sender circuits, go in to do what one did before. * * *

Brother ReQua, T '17, formerly of Milwaukee, is now located with the H. B. Squires Co., 583 Howard Street, San

Roswell C. Van Sickle, K '23, is in the St., Chicago. employ of the Westinghouse Electric and Manufacturing Co., at Pittsburgh, Pa. He lives with J. S. Ensor, K '24, at 1318 Singer Place, Winkinsburg, Pa. * * *

Brother C. E. Winegartner, G '18. holds the position of electrical engineer with the C. E. I. Co., Illuminating Bldg., Cleveland, Ohio. Home ties carry him back to 2051 Warren Road, Lakewood,

Brother B. H. Wigbels, I '19, is in member, made a strong bid for the Eta have been away from New York for us" stuff: three years."

Glen B. Ransom, O '21, is a technical employee of the A. T. & T. Co., at 311 West Washington St., Chicago.



R. J. Heffner, M '16, is with the Pacific Tel. & Tel. Co., San Francisco, Cal., in the capacity of secretary

for the committee on employment and training. His will be a good address to have down in our hats when the boss gets on the war path.

The General Electric Co. must have a stand in with Rho chapter at the University of Colorado since they coaxed George Lenning, Ralph Paden, R. D. McWha and D. Porter, all of the 1924 vintage to enter their ranks.

Brother J. W. Brother Leslie J. Harter, G '15, is in Cade. B '23. has the employ of the American Telephone gotten himself in and Telegraph Company, 195 Broad-

Brother E. D. Lilia, T '24, has gone ern Electric Co., Chicago, he is delving from Rockford, Ill., to 210 N. Jackson

> Deo Dewson, P '24, has changed his address from Seattle, Wash., to 845 Holland St., Wilkinsburg, Pa.

Brother O. L. Dodge, Z '24, is a studonly to find that two relays will have to ent engineer with the W. E. Co., Chicago, Ill., and makes his residence at 231 No. Kilbourne St., Chicago.

> J. H. Euston, A '18, is another man about to prove that electrical engineering is the course to study in college. He is located with the Bureau of Commercial Economics, Inc., 72 W. Adams Ohio Bell Tel. Co., Youngstown, O. He

Brother L. Battey, A '20, maintains an office in the Continental Nat'l Bank Building, Salt Lake City, Utah. Battey is sales engineer for the General Electric Co. in that city.



The Westinghouse Electric and Manufacturing Co. at East Pittsburgh, Pa., has always, since we can re-

charge of field construction costs for Kappa Nu men along towards the A-P Radio Laboratories, 646 Mission the Central Georgia Transmission Co., springtime when a young man's fancy St., San Francisco, Cal. Macon, Georgia. At present he is work-dimly turns to thoughts of a job. And ing on a 110,000-volt, 65-mile trans- last year was no exception. Here is a mission line in central Georgia, and list of the budding geniuses who fell formation that he is connected with the says, "Give my regards to the boys. I for the "Young man, you belong with Curtis Lighting, Inc., 628 Witherspoon

A. F. Augustine, Beta.

A. H. Barth, Rho.

C. J. Beller, Zeta.

R. P. Barnes, Mu.

D. R. W. Coleman, Kappa.

L. P. Cramer, Beta.

P. C. Cromwell, Sigma.

Deo Dewson, Pi.

R. C. Dickinson, Xi.

J. S. Ensor, Jr., Kappa.

R. W. Eddy, Rho.

M. B. Inman, Rho.

F. D. Johnson, Theta. R. F. Kuhlman, Rho.

Leon Lentz, Jr., Epsilon.

M. V. Maxwell, Iota.

W. E. Mueller, Alpha.

W. M. McLaughlin, Epsilon.

W. F. Munhall, Epsilon.

R. A. Reed, Nu. N. Ratcliff, Theta.

C. H. Smith, Nu.

I. A. Yost, Epsilon.

Clarence H. Smith, N '24, a graduate student with the Westinghouse Company, East Pittsburgh, is living in Wilkinsburg, Pa., at 764 Franklyn Ave. * * *

The Public Service Electric and Gas Co., at Irvington, N. J., have availed themselves of the services of Brother H. T. Nakamoto, K '24.

Brother C. C. Holtgren, P '24, gives us his address as Gordon, Nebraska. * * *

* * *



Zeta Chapter has been doing some sleuthing on its own account and discovered that H. H. Rendall. '23.

(ex-Lost Soul) is a cable tester for the lives at 851 Marshall Street.

* * *

R. D. Miller, M '21, has taken a temporary position in the chief engineer's office of the Pacific Tel. and Tel. Co., in Los Angeles, Cal.

Brother H. H. Brown, N '23, has returned from Schenectady, and is now in the employ of the Iowa Railway and Light Co., Cedar Rapids, Iowa. * * *

Brother F. A. Polkinghorn, M '22, is engineer and assistant manager of the

D. H. Mason, A '22, gives us the in-Building, Philadelphia, Pa.



Brother A. A. Oswald, D'16, has been out seeing the world first, and from last reports was in London,

England, at the offices of the International Western Electric Co. He expected to return to New York about the middle of last October.

Brother O. P. Settles, Z '19, living at Quion, Indiana, works for the Western Electric Company, Hawthorne, Ill., as equipment engineer.

Brother F. A. Asendorf, I '22, gives his position as heater for the Diamond Alkali Co. coke plant at Painesville, Ohio. Just another application of electrical engineering. Asendorf lives at 602 Mentor Ave., Painesville.



If one should have occasion to intricacies of neu-

or whatyouwilldyne, he could do no better than to correspond with Brother I. A. Canfield, Z '19, who is a radio specimen of the species. It must be a mantown, Philadelphia, Pa. harrowing experience.

Brother Wm. A. Olson, T '16, has

Out in California the P. G. & E. Co. has availed itself of the services of Brother W. E. Knudsen, M '22, and at present he is working in the valuation

Brother J. G. Stewart, G '08, could brouck Heights, N. J. give most any of us a few tips on the selling game, since at present he is in the capacity of sales engineer for Chas. Smith Bldg., Seattle, Washington.

Brother Fred B. Anderson, D'21, is a sales engineer for the Curtis Lighting, Inc., 1119 W. Jackson Blvd., Chicago.

on January 14th.

W. J. BLUM, A '14

With profound sorrow we report the death of

Brother Walter Joseph Blum, A '14, who passed away

January 14th, 1925, at Denver, Colo. Brother Blum

suffered a wound in service at Cantigny, developed pul-

monary troubles and never recovered. He had spent

six years in various hospitals and sanitariums and put

Draftsmen for the Illinois Central R. R. are scarce, but we have one anyway. to his home in Kashmir, India after Brother I. T. Landhy, A '22, holds this spending about one year with the Allisdistinction and we quote his address as Chalmers Company at Milwaukee. He trodynes, supers, 1421 Norwood St., Chicago.

The Philadelphia Electric Co., 2301 sales engineer with the A. O'Connor Market Street, recognized a practical Co., 9702 Euclid Ave., Cleveland. engineer in Brother H. A. Dambly, E We've heard lots of common radio bugs '21, and so enlisted him in their office blow off but never has it been our of the designing engineer. Dambly pleasure to encounter the above rare lives at 903 East Stratford St., Ger-

The Pacific Tel. and Tel. claims anbeen transferred to the Northwestern other of the Brethren in C. H. Bolin, Bell Telephone Co. at Minneapolis, M '22, who is an automotive engineer, located at 517 Sheldon Bldg., San Francisco. His residence address is 967 14th St., Oakland, California.

> Brother Tower W. King, T '19, holds the enviable position of Chief Inspector of the Atlantic Aircraft Corp., Has-

Brother K L. Erwin, G'20, must have C. Moore and Co., Engrs., 1916 L. C. a way all his own, after divulging the King, M '20, was married to Miss Elsie Fenwood Drive, Akron.

Vidiya Bhushan, A '23, has returned has arranged to have his mail forwarded to him by the Bank of New York, 48 Wall St., New York City.

Brother R. R. Smith, B '20, writes that he has landed the job of traffic engineer with the Ohio Bell Telephone Company at Akron, Ohio. When not figuring how to put more calls over fewer wires, Smith can be found at 196 N. 3rd. St., Cuyahoga Falls, Ohio.

Brother L. L. Edlund, D'16, is chief draftsman for the firm of Gardner and Lindberg, 1135 Marquette Building, Chicago, Ill. His home address is 7556 Eberhart Ave., Chicago.



Even in this day and age news often travels slowly. We are pleased to announce to all of the Brothers that C. S.

information that he is a supervisor with VanMoren, September 13, 1924. Brother the Ohio Bell Telephone Company and Mrs. King are living at 1024 K St., located at 76 South High St., Akron. Sacramento, Cal., Mr. King being He gives his residence address as 328 division engineer for the Great Western Power company of California.

D. R. PALMOUIST, A '11

The death of Brother D. R. Palmquist, A '11, is reported to us without details.

C. E. TERRY, T '11

The death of Brother C. E. Terry, T'11, is also reported to us without details. At the time of his death up a very brave fight for his life, only to lose his battle Brother Terry was employed as a lamp specialist by the B-R Electric Co., Kansas City, Mo.

Bridge Non-Subscribers

Continued from March Issue

THOMAS, R. R.—A '16 Fairbanks, Morse & Co., Beloit, THOMPSON, H. J.—K '14 2937 Gladstone Ave., Detroit,

THORNE, C. B.—Z '12
Wooster, O. Wooster, O.
THORP, V. P.—B '19
A. T. & T. Co., 195 B'way., New
York City.
THURSTONE, L. L.—K '11
c/o Univ. of Chicago, Chicago,

TICKLE, R. F.—I '14
126 No. 9th St., Minneapolis,

Minn.
TIFFT, THOS. D.—T '15
69 West North Ave., Wauwatosa, WARNER, A. S.—E '21

Wis.
TOBEY, C. R.—K '18
The Brownell Co., 1724 Dime
Bank Bldg., Detroit, Mich.
TOBIAS, A. L.—E '12
274 Hepburn St., Milton, Pa.
TODD, S. R.—D '12
4332 Ellis Ave., Chicago, Ill.
TOWER, A. M.—A '17
2535 S. Webster St., Ft. Wayne, Ind.

TOWLE, T. S.-K '14

burgh, Pa.

TOWLES, E. E.—I '13
612 E. Main St., Jefferson City,
Mo. Mo.
TOWNER, L. W.—M '21
City Eng'r. Office, Long Beach,
Calif.

TRAEGER, PAUL—K '13
Summons-Boardman Pub. Co.,
Church St., New York, N. Y.
TRICKLE, L. E.—A '18

Rantoul, Ill.
TUCKER, B. F.—A '07 TURNER, J. W.-D '14

935 N. County St., Waukegan, Ill. TURNER, R. E.—N '21 Odebolt, Ia.

UHER, R. L.—Z '19
2135 Adelbert Rd., Cleveland, O.
VAN ALST, J. W., JR.—L '13
1904 Market St., Harrisburg, Pa.
VANATTA, R. S.—G '11

621 Neal Ave., Dayton, O. VANDERWERF, H. W.-Z '16 c/o Brandon, Gordon & Maddell, 89 Liberty St., New York, N. Y. VAN DEUSEN, A. B.—A '12 1613 Wesley Ave., Evanston, Ill. VANIMAN, R. L.—A '12 2356 Penobscot Bldg., Detroit, Mich

VAN KEUREN, H. L.—E '11 12 Copeland St., Watertown,

VEREMIS, M. C.-D '19 401 E. 69th St., Chicago, Ill.
VERMILYE, S.—K '21
2006 Douglas Rd., Louisville, Ky.
VIRTUE, W. D.—I '19
1130 Pearl St., Denver, Colo.
VOYER, L. E.—T '11
807 Santo Roy Ave., Oakland,
Calif.
WADE, J. D.—X '21
G. E. Co. Detroit

G. E. Co., Detroit, Mich. WAGNER, J. O.—G '10 1542 Larchmont, Lakewood, O.

WALDO, PROF. E. H.—Assoc.

802 W. Illinois St., Urbana, Ill.
WALKER, G. B.—B '07
Utah Pr. & Lt. Co., 132 So. Main
St., Salt Lake City, Utah.
WALLACE, H.—D '13

802 Harrison St. Van Werf.
WICHMAN, M. F.—O '22
2073 Marshall Ave., St. Paul,
Minn.

WALLHEISER, F. J.-B '14 Shelbyville, Tenn. WALSH, R. L.—D '13

WALSH, K. L.—D '13
4445 Ellis Ave., Chicago, Ill.
WALZ, J. A.—B '15
17 John St., Evansville, Ind.
WALZ, J. O.—I '18
1207 Mill St., Wilkinsburg, Pa.
WARD, J. W.—K '13
Caledonic N. '13

Mohnton, Pa. WARREN, E. R.—B '21

Rochester Gas & Elec. Co., 34 Clinton Ave., N., Rochester, N. Y... WATT, W. T.—D '17 5706 Newark Ave., Chicago, Ill. WEAVER, H. J.—A '06 Standard Elec. & Battery Co.,

Kokomo, Ind.
WEBB, R. H.—B '08
1643 Lauderdale Ave., Lakewood, O.

WEBBER, E. M.—E '11 c/o Wagner Elec. Co., St. Louis, Mo. WEBER, L. E.—E '21

G. E. Co., Schenectady, N WECKERLY, M. A.—B '16 Whitehouse, O. WEEDON, E. B.—X '22

Eufaula, Ala.
WEILER, E. G.—A '16
1033 East 140th St., Cleveland, O.
WEIMER, GEO. O.—G '10
1420 Wright St., Los Angeles,
Calif.

Calif.
WEINBACH, PROF. M. P.—Assoc.
303 Waugh St., Columbia, Mo.
WEIR, H.—E '21
Branchdale, Schuykill Co., Pa.
WELLER, G. W.—E '16
1315 Franklin Ave., Wilkinsburg,
Pa

Pa.
WELCH, N. H.—I '22
5818 Wabash Ave., Kansas City, WELLS, W. B.—B '17
314 Trenton St., Wilkinsburg, Pa.
WENDEL, D. D.—X '22

Murfresboro, Tenn.
WETZEL, C. L.—D '14
3814 Wabash Ave., Kansas City,
Mo. WETZEL, M. T.—E '21 1539 Chicago Rd., Chicago Hts.,

HI.
WEYL, C.—L '17
6506 Lincoln Drive, Phila., Pa.
WHARTON, R. F.—A '22
2121-15th St., Moline, Ill.
WHEELER, C. M.—E '11
855 Rebecca Ave., Wilkinsburg,

WHIPPLE, C. A.—I '12
Texas Power & Lt. Co., Dallas,

WHITACRE, D. D.—Z '21 Waynesburg, O.
WHITE, T. K.—A '15
Electric Bond & Share Co., 71
B'way., New York City.

WIEMER, OTTO—A '05 1420 Wright St., Los Angeles, Calif.

WIEN, J. H.—A '18 3708 W. Lexington St., Chicago,

WILEY, F. H.—K '15
c/o Colo. Pr. Co., Boulder, Colo.
WILLIAMS, E. C.—A '14
72 W. Adams St., Chicago, Ill.
WILLIAMS, G. A.—A '77
503 Taft Blvd., San Antonio, Tex.
WILLIAMS, H. E.—I '17
800 Clinton St., Carthage Mo. WILLIAMS, J. S.—Z '21

G. E. Co., Schenectady, N. Y. WILLIAMS, L. L.—D '11 5949 Oconto St., Chicago, Ill. WILLIAMS, P. H.—O '22 Paydotts, W. Baudette, Minn. WILLIAMS, T. W.—L '22 5425 Master St., Philadelphia, Pa.
WILLIFORD, E. A.—A '15
1647 Lincoln Ave., Lakewood, O.
WILLSON, F. G.—A '05
78 Madeson Ave., Newtonville,

78 Madeson Ave., N Mass. WILSON, A. W.—0 '22 Devil's Lake, N. D.
WILSON, C. E.—E '15
208 W. Main St., Lock Haven, Pa.
WILSON, L. R.—A '19

Box 1121, Tucson, Ariz.

WILSON, P. R.—O '20

Northwestern Bell Tel. Co., Telephone Bldg., Omaha, Nebr.

WINEGARTNER, C. E.—G '18

c/o Cleveland Elec. Illg. Co.,

Cleveland, O.

WINC H. P. D. '22

WING, H. R.—D '22 WING, H. R.—D '22 811 E. 55th St., Chicago, Ill. WINSLOW, D. E.—E '15 113 Du Bois Ave., Du Bois, Pa. WINTER, L. A.—N '16 W. E. Buell & Co., 205 Davidson

Bidg., Sioux City, Ia.
WINTER, W. L.—M '16
2112 Leavenworth St., San Francisco, Calif.

cisco, Calif.
WIPPERMAN, F. B.—K '13
6400 Plymouth Ave., St. Louis,
YOST, V. W.—B '16
226 N. Kolin Ave., Chicago, Ill.

MO.
WISE, A. G.—G '22
65-13th Ave., Columbus, O.
WISE, E. M.—T '19
184 E. Division St., Fond du Lac,

Wis.
WOHRLEY, J. R.—G '14
c/o H. L. Doherty Co., 60 Wall
St., New York City.
WOOD, A. K.—X '20
2809 Highland Ave., Birmingham,
Ala.

WOOD, D. C.—A '13 418 E. Oak St., Springfield, Ill. WOOD, H. M.—L '14 219 Swissvale Ave., Swissvale,

WOODCOCK, W. I.—E '13
W. E. & M. Co., E. Pittsburgh, WOODE, N. E.—Z '13
1535 Montier St., Wilkinsburg,
Pa.

WOODRUFF, E. C.—M '16 Box 68, Tracy, Calif.

WOODS, DR. B. M.—Assoc. 3038 Hillegrass Ave., Berkeley, Calif.

WOODVILLE, A. W.—B '07 225-37th Ave., Seattle, Wash. WOOLCOCK, R. S.—E '19
133 N. River St., Wilkes Barre,
Pa.

WOOLHISER, H. L.—T '12 330 Walnut St., Winnetka, Ill.

WOOLRICH, W. R.—T '11 Univ. of Tenn., Knoxville, Tenn. WOOTEN, BENJ. A.—Assoc. Washington & Lee Univ., Lexing-ton, Va.

WRIGHT, B. S.—B '15
"Windsor," Mt. Vernon Ave.,
Alexandria, Va.

WRIGHT, CHAS. A.—Assoc. Ohio State Univ., Elec. Eng. Dept., Columbus, O. WRIGHT, S. B.—K '19
A. T. & T. Co., 195 B'way., New
York City.

WUICHET, R. P.-G '15 811 Salem Ave., Dayton, O.

WULFF, H. A.—M '20 Y. M. C. A., Stockton, Calif.

WURTS, T. C.—K '13
1164 Shady Ave., Pittsburgh, Pa.
WYATT, R. M.—T '17
Central Y. M. C. A., 55 Hanson
Pl., Brooklyn, N. Y. WYMOND, P. C.—B '13
2036 Confederate Pl., Louisville,
Ky.

YAFGER, L. C.—A '21 1814 Central Ave., Cheyenne, Wyo.

YEAGER, L. R.—G '14 226 E. Oakland Ave., Columbus, O.

YERGER, C. W.—G '08 c/o Cutler-Hammer Mfg. Co., 50 Church St., New York, N. Y. YOSHIKAWA, Y.—A '20 389 N. King St., Honolulu, Ha-waii.

YOUNG, A. L.—N '17 Rm. 3006, Navy Dept., Washington, D. C.

YOUNG, M. Z.—E '19 454 S. Broad St., Jersey Shore, Pa. YOUNG, W. M.—A '21 306 E. Chalmers St., Champaign, Ill.

YOUNGSTROM, N. C.—M '21 P. T. & T. Co., 835 Howard St., San Francisco, Calif.

YUNGMAN, A. T.-L '14 University Club, Akron, O. ZIMMERMAN, H. J.—Z '15 Glenruah Ave., Willoughby, O ZIPPLER, W. N.-L '20 Gibbs Bros., 1 B'way., New York, N. Y.

LOST SOULS

Please send us addresses for as many of these men as you can. You will confer a favor on both the lost brother and ourselves. Perhaps if we could reach him he might like to read THE BRIDGE

ALPHA

Clinton, Ind.
FELLMAN, H. C., '07—146 W. 65 St.,
New York, N. Y.
NELSON, W. S., '14—Bartlesville,

BETA

BLOYE, N. C., '24—115 E. Columbia St., W. Lafayette, Ind. MIDDLETON, I. B., '16—c/o West. Elec. & Mfg. Co., Indianapolis, Ind. REYNOLDS, R. L., '23—R. R. No. 5, Elwood, Ind.
RUSH, W. A., '06—2118 Hampton St.,
Swissvale, Pa.
RUSSELL, F. W., '24—Evansville, Ind.
STACEY, W. K., '06—1325 S. Nettleson St., Spokane, Wash.

GAMMA DICCIO, A. A., '11—Victoria 4166, Buenos Aires, Argentine Republic, S. A.

McGINNIS, O., '23—Arlington Hotel,
Washington C. H., Ohio.
PHILPOT, A. C., '12—411 S. Walnut
St., Bucyrus, O.
SCHLEGEL, L. G., G '17—228 So. Curgess ave., Columbus, O.
WILSON, J. E., '15—Easton, Pa.
ZINK, J. A., '08—'381 Watson St.,
Akron, O.

DELTA

EMMONS, G. C., '11—Laidlaw-Gordon-Dunn Co., Cincinnati, O. KUMBERA, G. C., '21—Fond-du-Lac, Wis.

MEADE, G. R., '12—4103 Wilcox St.,
Chicago, Ill.

PEARCE, W. W., '21—538 Steele
Court, Waukegan, Ill.

RICHARDS, O. L., '10—7455 Greenview Ave., St. Louis, Mo.

Sity Ave., Chicago, Ill.

IOTA

BAILEY, R. S., '12—Colorado Springs,
Colorado.

TAYLOR, O. F., '13—58 Warren St.,
New York City, N. Y.

ROSE, HERBERT, '09-4631 No. Racine Ave., Chicago, Ill. AGNEW, J. M., '23-603 Blackman St., SMELY, JAMES, '20-2658 S. St. Louis Ave., Chicago, Ill. SMITH, E. H., '17-72 W. Adams St.,

STEVERS, H. D., D '20—6804 Hurlburt Ave., Chicago, Ill.

SWANSON, F. A., D'14-4019 W. Van Buren St., Chicago, Ill. WRIGHT, C. F., '16-914 Transportation Blvd., Atlanta, Ga.

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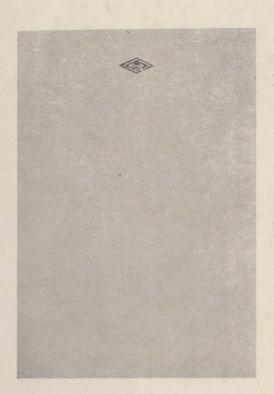
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