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
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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.

The greatest opportunity a man can have offered him is that of service. The nearer a man's efforts are reflected in service to the public, the greater 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 accomplishment to its credit of which all contributors are proud. The concentration of power generation in large blocks 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 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 water-power which the Almighty has provided is being made available to his people through the medium of the electrical industry.

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 development. 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 only one-fourth of the ultimate possibilities. The industry is in serious need of, and the opportunities are large for, young men with analytical ability and vision into the fundamental possibilities at hand.

The revolution of industrial processes that has been brought about by electrical application, large as it is, is not the greatest service electricity has given to mankind. The home has been placed on an entirely new 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 25% per year, the increase in requirements for electrical energy 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 20,000,000 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 '70

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

The Central Station Industry today offers a challenge to the young engineer who is selecting the field 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 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 work.

Many of the Central Station companies have organized training courses where the theoretical knowledge found in books 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 practical experience and in turn applies to 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 increases his knowledge of the companies 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 enable the engineer to keep posted on the progress of other companies are a common practice.

The year 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 $1,200,000,000,000 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 $6,000,000,000.

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 near future.

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 Industries.

(Continued from page 131)

The young men now entering this field today have a golden opportunity to grow with this industry and become our big men of tomorrow.

Upsilon Chapter

The University of Southern California

The University of Southern California was founded in the year 1880, and in the same 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 dense 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 financial support, von KleinSmid initiated a campaign for $10,000,000, half of which was to go for endowment and half for building. This campaign was a success, 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 $1,500,000. 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. 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 1924 at a cost of $600,000. This was followed by the Science Building, completed in 1924 at a cost of $400,000. Ground was recently broken for the new Women's Building, and work is soon to start on the Law Building, each of which is expected to cost $1,300,000. This will bring under way for the building in the near future of a new Dental Building and another Science Building, the latter building to house the Electrical Engineering Department.

The rapid growth of the University of Southern California is perhaps most easily shown by glancing at the record of enrollment. From 1921 to last year, the enrollment practically doubled, the 1921-24 enrollment being 11,025. Official records for the present school year have not been compiled as yet, but they are expected to show a decrease 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 1924-25 was 7,162. 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 Pay 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 charge of the Department in the fall of 1923. Professor Biegler is a highly known and held in high esteem among the men of the electrical profession. For some time he was a member of the teaching staff of the University of Illinois, and while there he was elected a member of Eta Kappa Nu. From 1918 to 1924 he was Associate
A wonderful spirit of cooperation and interest in Electrical Engineering at the University of Southern California is fostered by such concern as that of the General Electric Company. The respect of the General Electric Company for the worth of graduates of the University of Southern California is properly expressed by the exceptionally high percentage of U. S. C. graduates selected by them 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 Con- sulting 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 Bieger, the Electrical Engineering Department of the University faces an era of even more 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 file. Will you public-spirited brother come forward and help Brother Zollinger out?

1900
1901
1902
1903
1904
1905

If you can let him have any or all of these issues please write him at 429 South Avenue, Wilkinsburg, Pa.

Who's Who in Eta Kappa Nu

F. R. WINDERS, A'05

Interview by Dallas R. Lamon, T'20

After all an engineer is a human being. At least he should be. This profession of ours is pretty much a coldly intellectual proposition, particularly if we consider it in its narrower aspects, and perhaps we are much too prone as engineers to stick too closely to strictly technical considerations, to attribute undue importance to purely inanimate phenomena, to fit in too easily merely as a cog in the wheels of some big organization, to keep our noses too close to the griststone 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 ever started to perform a creature of its 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 just machines for grinding out some certain kind of work. It is fundamental that nothing is won except by constant striving. There is no short cut to acquiring 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. Every now and then we come across some brother engineer who possesses to an unusual extent a radiating personality and the ability to dispense good cheer to all with whom he contacts. Such a man is Brother Winders. He is thoroughly human, and his engineer- ing training and the practice of his profession have not venerated him with any impervious shell that makes him the less of a social asset. Quite the contrary is the case. He is possessed of a rare sense of humor and follows the happy doctrine that a smile will go a long way toward easing the ills of the world.

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, 1891 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 this 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 thankful citizen of our country and member of our organization is that as a youth he was attracted by the lure of the life beyond the store windows and the concrete pavements. Brother Winders was particularly inclined with respect to athletics, but not overly proficient in certain branches of these manifold arts. Upon one occasion, probably for reasons having more to do with aversion than anticipation, he was chosen for the position of center on his High school football team and proceeded to the fray, no doubt, with visions of all-American honors and other incidental trophies of minor note. The game
THE BRIDGE OF ETA KAPPA NU

was on and finally was over, and the erstwhile all-
American center emerged from the fray having lost one
front tooth, several square feet of epithelial
and keratin, and much to the sorrow of our
hero, the captain of the football team and the other
notables involved shortly arrived at the unanimous de-
cision that the school they were best that
Brother Winders’ connection with the team be severed,
which decision was sustained and strengthened by the
concern of the family at home.

To the wisdom 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 indica-
tive of a destructive nature, it may be stated that in
taking apart devices Brother Winders was always im-
bowd with the noble aspiration of putting them together
again in such fashion as to improve their mechanism.
It must be carefully borne in mind that the ultimate
idea was to render the rejuvenated article a more
lustrous piece of apparatus than it had been prior to its disas-
sernally. To fully present the other side of the ques-
tion, however, it must be admitted that some of the
articles which Brother Winders investigated in the
fabric just described, particularly one large mantel
clock, were never quite the same again.

To the very small boy school usually assumes the
character of a pest. To this general rule Brother
Winders was no exception. In the lower grades his
ideas with respect to institutions of learning was that
they were to be avoided insofar as was possible
without dire consequences to the avider. As with
most boys who later find their way into the ranks of
H.K.N the Winders’ interest in school grew as
school grew as
clock
small as he became older. In High school and in his
college years he became particularly interested in phy-
sics, biology and chemistry and rather than skipping out
of school early he could usually be found of an
evening leaving the building with the janitor. His in-
terest in languages and similar subjects was less pro-
nounced and consisted chiefly in inebriating enough of
the subject to obtain a satisfactory grade at a reason-
able minimum of effort.

All of us have recollections of one sort or another
arising out of our early efforts to become a productive
engineer. Brother Winders’ early wealth getting
activities were one in number. That one job arose out
of the fact that his father was the owner of a fruit
and grocery store in the old home town and it consisted
of either a position behind the counter weighing up
lime beans or slicing Swiss cheese, or a precarious poise
on the high board seen in old-fashioned spring
wagon behind “Old Bill” delivering the Saturday
groceries in the various precincts of the village. In re-
flexive moments between the deliveries of flour sacks
and toilet items, Brother Winders’ fancy turned to
thoughts of his future and probably the one outstand-
ing ambition of these youthful days was to have a job
like an uncle his, 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
sailed forth to Urbana to assume the crushing respon-
sibilities of a freshman in the electrical engineering
course at the University of Illinois. He spent the
years 1900 to 1905 in and about the University inci-
dentally 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
charter member of the founding chapter. Brother
Winders thoroughly enjoyed practically all of the cor-
courses which he took at the University. Perhaps a
single exception to this was mechanical drawing, for
he never did learn how to make India ink beh-
sensibly. To fully present the other side of the ques-
tion, however, it must be admitted that some of the
articles which Brother Winders investigated in the
fabric just described, particularly one large mantel
clock, were never quite the same again.

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 bride to greet her groom.
Whose bride-to-be was on that train,
A burger who hoped to be lost in the West
With a precious loot.

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

THE TRAIN WHICH NEVER CAME

By Vladimir Karapetoff

Chorus
Who struggled for breath,
Or were frozen to death.
The Mother is ending her lonely days
In an old lady’s home.
The lover is looking in vain
For the loved one’s face.
He was as wide as a dandelion
Whom they married for gain.
The burglar was caught
And is serving his time.

Moishe Ike raised Cain
With much language profane,
And they took the next train.
Se their plans were all changed,
For they trusted a thing
Made by frail human hands,—
The train which, alas, never came.

Chorus
Though the lawyers have the court
To find God’s will was to blame
That the train never came.

Har!
Eta Kappa Nu Association

An electrical engineering fraternity founded at the University of Illinois, Urbana, Illinois, October 28, 1901, for closer co-operation among, and mutual benefit to, students and others in the profession, who by their attainments in college or in practice manifest exceptional industry and marked ability in Electrical Engineering.

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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, 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 personal letters for Lost Souls, articles and letters of advice and criticism are only a few of these ways.

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

The petition received from ten students at the University of Southern California for a chapter was approved by the National Executive Council and then submitted to Upsilon Chapter the Active Chapters. By April 99th, 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 Pacific Coast. Upsilon Chapter, we welcome you. Be faithful at all times in the discharge of your obligations to the fraternity. 

The Twenty-First Annual Convention will have passed 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 larger number present at Lafayette.

Fraternity Journalism is going through a transition period. No one denies that. We believe The Bridge has weathered the major part of its transition, but there is still one pressing 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 McLane 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 topic holds 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 subscription for next year.
 active Chapters

Alpha Chapter

University of Illinois

During the past month Alpha Chapter has been engaged in the initiation of seven Juniors, Branch P. W. Emley, W. M. Hicken, F. E. Hetzel, W. T. King, F. E. Leib and W. C. Welsh, and the study of the policies and the regulations of the society. The members meet on Saturday evening in the Institute. The regular sessions are held at 7:30 p.m. and the meetings are open to all students in the school.

Beta Chapter

Purdue University

Beta Chapter, while itself yet in the pleasant dusk of this destructive plague of spring fever, extends its sympathy to all those brothers who are fellow sufferers. We're mapping out the ways and means to work and pledged ten of our best men in the junior class of the Electrical Engineering Department to work and pledged ten of our best men in the junior class of the Electrical Engineering Department to this end. They are the most promising students in the class. They are the most promising students in the class. They are the most promising students in the class.

Gamma Chapter

Ohio State University

At this time of the school year, the student who is graduating in engineering at this university, is confronted with the problem of what type of employment to choose. The future of this type of employment is always a matter of concern with his family of choice.

Delta Chapter

Armour Institute of Technology

The consensus of opinion was that the articles provided an accurate and detailed picture of the industry, but only from the viewpoint of the large manufacturing company. The articles were generally well received, although there were a few who thought the industry should have been discussed in more depth.

J. N. HENZ, Associate Editor.

Epsilon Chapter

Pennsylvania State College

The brothers of Epsilon Chapter are all having the time of their young lives. The chapter has been very active this semester. At last they have broken from the confines of "Old Penn State" and have started to experience the world outside of campus. The chapter has been very active in the activities of the university, including participation in various campus organizations and events. The brothers have been very involved in these activities, and have had a great time doing so.

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The Bridge of Eta Kappa Nu

Theta Chapter
University of Wisconsin

The Theta Chapter takes pleasure in announcing the election and successful fraternization of Mr. E. L. Knoblauch, Robert E. Hugan, E. L. Hugan, F. D. Walla, Don Malpass, J. W. McLaughlin and Lester W. Penfield.

Ford C. Pettitck, Associate Editor.

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 three articles it was brought out by one of the graduating seniors that their hunt for a job had been greatly helped by the ideas set forth in them. Many, of course, have no idea what this hunt would be like to do upon leaving school. The graduate, at best, a wise and experienced man or woman who has been in the various lines of engineering practice for years, needs something to help him along the "roughest" 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 ones that are the pick of the class; we congratulate them on their success. We feel, with the times as they are, the good opportunity.

"We're going to have a dance and Oke's going to break into it's going to be some affair; in fact when he hands one a ticket, he should back side first. The doles will take place in the Crystal Ball Room of the Hotel Lorraine. Several of the more prominent honorary fraternity have been invited to their active part.

Finally, as regards the discussions of the articles in the January issue of The Bridge, it is the opinion of the subject of the articles is certainly well developed, giving the absolute advantage of the large electrical manufacturing concerns over the small ones.

It might be well to show in some articles the comparision of types of work manufacturing concerns and of other types of engineering. The undergraduate is often undecided whether to enter into manufacturing, central station work and the like.

This is the last of the letters that I write to you as an active member of The Bridge. I have enjoyed my participation in the life of the editor and am sure to be eager to read the "next" issue.

Theo. Chapter sends greetings to all members and especially wishes success to those who are leaving the ranks of the active members and are going into professional life.

Eugene A. Loewald, Associate Editor.

Iota Chapter
University of Missouri

The four articles on "Employment With Large Electrical Companies" present in this type of article, that I can offer, is that there might be a greater comparision of the large and small electrical company.

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 they preferred an article which showed the methods at large are the ones which help them discover what kind of work he is best fitted by temperament, desires and ability to do, and to show him how he can get into that line of work. Some of the types suggested were:

Those which show the characteristic necessary for success in definite lines of work.

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

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 was not available when the average senior is scratching himself behind the ear and literally saying to himself, "What Next?"

Graduation from college happens but once to the majority of us, and it is a pretty dumb student who does not realize that what import his next step will be. These articles have been personally helpful, I know, and I think to the majority of the brothers who happen to fall, with me, under Mr. Jenkins' second class, they cover the several phases of the problem and are quite thorough, and many helpful thoughts are suggested, many of which the average student will find time to use.

Mr. Jenkins' article in particular was worthy of mention, for it is a straight from the shoulder from a man who evidently has been thru the mill, and has learned to weigh values and to credit them with their true worth by solving his own student problem exactly, and it is to all others who were the class "twin'" man who doesn't yet know his own mind. The other articles on the subject are excellent for his good advice to the class 'twin' man to whom never to lose one's own mind. The other articles on the subject are excellent for his good advice to the class 'twin' man to whom never to lose one's own mind. The other articles on the subject are excellent for his excellent advice to the class 'twin' man to whom never to lose one's own mind. The other articles on the subject are excellent for his excellent advice to the class 'twin' man to whom never to lose one's own mind. The other articles on the subject are excellent for his excellent advice to the class 'twin' man to whom never to lose one's own mind. The other articles on the subject are excellent for his excellent advice to the class 'twin' man to whom

Glen R. Taft, Associate Editor.

Lambda Chapter
University of Pennsylvania

Lambda Chapter has selected four Juniors to carry on the work next year. They are Herbert Eustis, W. J. Thompson, Thomas J. Tyler, 3rd, because of the senior officers which were ferried until after the Easter holidays. The informal initiation was held on April 22, and on the following April 29, the formal initiation and banquet was held at the Hotel Norland, which was looking forward to having a number of alummi 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 all the contents of the articles could be presented in the present article. It may be of interest to note that none of the members of Lambda Chapter have received offers from large electrical manufacturing companies.

F. L. Strighroth, Associate Editor.

Mu Chapter
University of California

Mu Chapter is in the jump! Seniors are struggling with that thesis and getting the laboratory reports done. However we're not so busy that we couldn't find time to have our H. N. Ankara on March 27th. Everything was so 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 grad forum comes the question of which college the junior students are going to. Professor Harding puts it right when he says "What next?". It is with most of us, just the question of what college and the four articles published in the January issue are good to help us settle that or at least start to thinking.

We hear of the G. E. course, and the G. E. man comes to us and tells us about it. The same thing for the Westinghouse Course and the Westinghouse man tells us of his course. Somehow both talks are not enough to clarify a graduate on his exact wishes on the subject. With a month yet to be there in the January issue there comes a feeling that we are looking forward to having a number of alummi present on these two nights. 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 able to tell whether the handicaps which he knows about are too large, or small or large from his point of view.

Another interesting side of this will be the reports of those letters from the new alummi 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 the two things together, but I hope bringing out the disagreeable side of a position for such a method would not work.

D. W. Crowding, Associate Editor.

Nu Chapter
Iowa State College

The four articles on "Employment With Large Electrical Manufacturing Companies," appearing in the January issue of The Bridge were very timely. These articles were the very thing to point to the present, and designed to give a senior electrical engineer something to think about. We were all interested in giving a clear and fairly detailed presentation of the nature of
THE BRIDGE OF Eta KAPPA NU

the student training courses offered by the larger companies, the ground covered by their projects and the benefits to be derived therefrom.

Of special value to the members of Nu Chapter, was the article by Professor C. F. Harding of Purdue University which, for the first time, looks into the problems of the engineering graduate, it carried some important, and the same time offered some good and useful suggestions, and the much discussed and feared "bidding alley job" are worth noting:

"It is believed that a graduate engineer, who, as a 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 an engineering degree, must certainly hold at his command the will power to back out of an impending real or imaginary blind alley if necessary and 'hit the line again,' for further responsibilities and their accompanying success.

In general, Nu Chapter's comments on this series of articles must be confined to a request for more like them. Spectacles for the blind are needed. The unfamiliar country lying ahead, things as yet untried, are brought before us in the unfamiliar trip to our hearing.

The experiences and reactions of men who have "made the grade" are what the under-graduate values above the year amount of bookish advice hurled at him by one who has been "on the self-elected prophetic of our day.

Nu Chapter sends greetings to the brothers in Eta Kappa Nu. To those who cross the finish line in this first race of the year, next June, good luck and a hand to the top for your future endeavors.

W. H. NEWLAND
Associate Editor.

Omicon Chapter
University of Minnesota

The field of electrical engineering offers unusual opportunities to the technical school graduate who is just entering the field. The larger companies realize the value of taking a man who has been beginning his special training early.

For the men who graduate and are looking for a job this fast is a big advantage. It allows a rather carefree period of the type of personal experience one cares to follow. A student can begin on the floor of the company and bring with him a coordinated understanding of the physical and mathematical conception of electrical phenomena. The better companies help to create some opportunities about the ease of getting "lost" in large companies. It bears testimony to the fact that the earnings are the result of the job. The pay is what they are worth. The opportunity to gain a varied and interesting service, a challenge to the imagination is highly appreciated.

At Minnesota, the seniors have just begun the last term of their college career. We fired however that these last days will be busy ones.

The special attraction this spring is the second of the Electrical Show. This show comes once in every two years and this is our year to put it on. We have had for two years a blank small exhibit which the exhibit committee has not decided upon what phase of the industry to specialize in. If he

Pi Chapter
Oregon Agricultural College

In response to the questions on the subject of "Large Electrical Manufacturing Companies," the larger companies of the chapter had a hard time thinking of any way the article could be improved. We were particularly interested in the suggestions and advice given the undergraduate in the first article, for the reason that it was written by a man who is in an excellent position to observe the progress of many students, and in addition, it has gone through the test course of one of the larger electrical manufacturing companies. The other articles, in our estimation, form an excellent picture of the industry and give the undergraduate the opportunity of an idea of what to expect in the test courses as could be determined another way.

The article could possibly be improved in value to the undergraduate by laying more stress upon how he should prepare himself if he intends taking a test course. It has been our experience that the average senior chooses his motivations in a rather haphazard manner, even after he has been selected to take a test course.

The newspaper advance would not know what particular things he wants to specialize in until after graduation and through a test course, but surely there are some electives which might help him to decide on what course to enter a test course. Possibly some of the alumni who are now taking a test course could inform us with their hesitating consideration about the electives they would want.

Pi Chapter sends its greetings to its alumni and extends to the other chapters its best wishes for the coming year.

K. B. AUSTIN
Associate Editor.

Rho Chapter
University of Colorado

Undoubtedly, one of the biggest questions in the about-to-be engineer's mind is that of employment after he has finished his college course. In painting a picture of his future work he is wont to create a vision of an executive position almost immediately upon graduation. A few good articles by prominent engineers are not out of place at this time. They, do no doubt, help the coming engineer to realize that his work will not be entirely finished when he holds a degree from a technical school.

The four articles in the January issue of the Electrical Review stress the fact that a man must start at the bottom and work hard if he ever hopes to get anywhere in the engineering game. The advice against becoming discouraged by low wages and routine work is not appreciated now, perhaps, as much as it will be later on. Most of the men who are graduating realize the necessity for further study and begin their life work, if it may be termed such. Mention is made of the fact that representatives of the various companies look for the graduating seniors, but the big question is, "Does each student receive an offer and an equally good opportunity?"

This is undoubtedly in the back of the mind of a certain number of engineering students. It is certainly the "Red Hot Rivet." Let us see what our Eta Kappa Nu has to say about it. San Francisco promises us a roasting good time with music as a radio and other things. It is quite certain we are going to be entertained. Let us preserve some of the glory for us before we separate and depart for California. If we can be reminded we are not a progressive step to have such a course at our own institution in conjunction with the Westinghouse Electric and Manufacturing Company? OPINIONS, WILL JU., Associate Editor.

Sigma Chapter
Carnegie Institute of Technology

The first initiation of the present school term was held recently and six new members were initiated to the highest standing of membership.

The five new members are: Gates, Dillingham, and Hulbig for the engineering company; and Nyberg and Tinker for the mechanical company.

Mr. W. H. P. Draper, Associate Editor.

Tau Chapter
University of Cincinnati

In this issue of the Electrical Review, a lively discussion took place where I suggested that the four articles on "Large Electrical Manufacturing Companies" be discussed. The outcome was as follows:

As a word of interest, I might mention that the Engineering School of the University of Cincinnati is on the cooperative basis with one month spent at work and one month in school. After five years work on various jobs during our period, we come to a very complete understanding of what type of work for which we are the best fitted and what type of work we like the best. If any of us should choose the manufacturing game, then the courses offered by the large manufacturing companies would be an additional choice in our training. Therefore, the articles in the January issue of the Electrical Review did not appeal to us as it would be to the undergraduate of a regular four year plan of work.

As for the articles giving the true picture of the labor market, they are too one-sided. They are written by men successful in this industry and so they could not give us unbiased opinion. Better were the articles in the last January issue expressing our opinion on this subject. The "pro and con" idea is necessary if the articles are to be of real value to the undergraduate.

Little is to be said about the January issue of the Electrical Review.—We certainly missed the "Red Hot Rivet." Let us see what our Eta Kappa Nu has to say about it. Stanford promises us a roasting good time with music as a radio and other things. It is quite certain we are going to be entertained. Let us preserve some of the glory for us before we separate and depart for California. If we can be reminded we are not a progressive step to have such a course at our own institution in conjunction with the Westinghouse Electric and Manufacturing Company? OPINIONS, WILL JU., Associate Editor.

E. M. F. WOLLER
Associate Editor.

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**Chicago Alumni Chapter**

Things have been alive in the Chicago Alumni organization during the past three months as will be evidenced from the report at the meeting of December 16, 1924, twenty-nine men turned out at the request of Bro. R. G. Simons and theAutomatic Electric Company give a demonstration of his company's type ofautomatic telephone. By means of a portable telephone set he explained the ins and outs of the automatic equipment showing how the dialingoperation affects those 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 telephone equipment is not any more difficult than the maintenance of manual equipment. His talk was followed by a discussion which brought up many points of interest.

On January 19, 1925, thirty seats in the center section of the mezzanine floor of the Court Theatre were reserved for a dinner meeting where "White Cargo," not strictly appropriate for Sunday school children, was screened. Several members of the "White Cargo," was not strictly appropriate for Sunday school children, as had been said as some have claimed. "Yes, we all sweep very good mops."

Radio is certainly a strong attraction for bringing out a good crowd, as was evidenced by the turn-out on February 10, 1923, at the Chicago Engineering Club to hear Brother R. G. Mathews talk on "Black Light." 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 differences encountered in the broadcasting station and the problems that arise in operating such a station was illustrated by a talk on the subject by a speaker. The discussion which followed brought out the wide variety of radio interests that Brother Mathews is at present engaged in. He took an important part in the installation tests that were conducted at East Chicago, Ind., at the time of the recent fire.

Our program for the remainder of the year is as follows: March 10, social; April 14, formal initiation; May 22, special dinner; June 26, general meeting; July 31, social; August 21, formal initiation; September 25, special dinner; October 23, general meeting; November 27, social; December 15, special dinner.

**The Bridge of Eta Kappa No.**

**Los Angeles Alumni Chapter**

The 24th meeting of the Los Angeles Alumni Chapter was held at the University of Southern California, Dec, 10, in conjunction with the members of Honorary Electrical Engineering Society of that institution, who presented for approval of our members a preliminary outline of the petition they were going to present to the local chapter of EKN. All faults appearing in the petition were discussed and presentation of their material seemed of the highest caliber, as the committee was left with the task of making it valuable to the fraternity.

This chapter has been able to hold two very interesting meetings since the installation of the New Branches program. The opportunity afforded at these affairs of meeting the older members brought out one's viewpoint and stimulated interest in fraternal activities. Our attendance at these meetings has been excellent, due largely to the centennial programs at the Chicago Alumni's Club and also to the prominence of the speakers at our meetings.

On March 10 Brother J. M. Spangler, 17, district manager, National Carbon Company, Chicago, furnished the entertainment jointly with Bro. C. K. Stryker, D 77, electrical engineer,パンテール Products Company, Chicago, Bro. Arpad Egry, 19, engineer and sales manager, Waukegan, Illinois. The lecture was on the importance 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 electrical field. He related some of his most interesting stories illustrating the importance of some points in the sale of any commodity.

Brothers J. M. Spangler, J. R. Hare and others were interviewed by a writer from the Chicago Tribune. The newspaper was interested in the origin and development of the Feb. 14 meeting.
New York Alumni Chapter

We feel highly elated with the result to date of our program committee, which has been meeting weekly consisting of Brothers Cota, Vigne- ron and Hunsche. Their efforts are being observed by Brother H. H. Norris, our guest speaker, who is at the head of the Department of Electrical Engineering at Cornell, and is an educational Director of the Eastern Elevated Railways. Thus he has been able to do with educational activities in a few of the larger public utilities of the country, emphasizing in particular the methods used and tried by the Eastern Elevated Railways to aid their employees to improve and broaden themselves. In conclu- sion he indicated volunteers from those present to outline any methods of edu- cation or training that had been found to be of use. A number responded to this invitation and from the number of questions asked there was no doubt that some interest was maintained.

As a sequel to this Brother Cota arranged to have Brother V. Karapetoff appear before the chapter on February 10. The subject of his talk was never divulged and out of the many conce- rns which a musical demonstration of which he said was the most important, there is no one phase of human nature which I will not try to teach. However, brother Norris was right when he wrote in his remarks card, "Karay says will make everybody think." Brother Karapetoff introduced his subject by saying that from his own observations he has noted that a lecture, if it is given to the right audience, is really an education of the lecturer's personality. He then pointed out the idea of "straightforward" teaching and demonstrating the point with what is mentioned by an individual success story.

The talk was brought to a close with a poem which "Karay" said was inspired by the hearing one of his remarks which he has fulfilled. The lines were read by Karay and certain of them repeated from the assembly in chorus.

Professors Morgan Brokko, A. Schon- ris, of the University of Buffalo; R. L. Bryant, H. H. Norris, of the University of Wisconsin and Brother E. S. Lee, '13, were the out- of-town visitors, who were called upon for short talks. Brother H. H. Race, K. L. teaching to Cornell, was also present.

Upon adjournment of the meeting, a number of interesting questions were given an opportunity to visit the broadcasting- studio of WEAF.

The Philadelphia Alumni Chapter

The second meeting since the re-or- ganization of the Philadelphia Alumni Chapter was held Friday, March 13, at the School of Architecture Building in Philadelphia.

The meeting was not-so well attended as our first one, the turnout was not at discouraging. Every one present has been accounted for as far as I could determine, but not nearly so much as the little entertainment that was held at the beginning. We presented the "Mock Convention" that was sent to us by our New York brothers and the will and humor of it was greatly appreciated.

It was decided that our third and last meeting this spring would be held Thursday, April 16, at 5:45 p.m., at which time the party will adjourn to the clubroom where we have access to bowling alleys, pool, bilboard and card tables.

In the meantime Brother Mason has appointed a committee with Brother J. L. Garrett as chairman, to solicit subscrip- tions for The Bridge. We sin- cerely hope to have a large number in favor of a second party, and we think the chance of a third one even more unanimously. We must say, however, that Bro. H. H. Race carried out his part of his suggestion with a broad smile, which was broader yet when he had the opportunity of meeting his brother on quarters for yours truly for apparent in- formation.

Hereafter Brothers be careful of your words, and moods. If you say something--no use to say anything you may also be fined. No shot is safer than prowling around with a game of the grape, the brave, but come out and see the fine- st anyway

The bridge was some minor business as- tended to during the early part of the meeting, namely election of officials of the alumni chapter. The nominess were then selected by the nominations committee and were elected unanimously, with the fol- lowing result: when the smoke of bat- ter had cleared away: R. A. Strech- man, O '20, President; R. G. du Bois, A '23, Vice-President; P. S. Darrell, L. L. Secretary; L. S. Neib, Treas- urer.

Watch us next year.

Philadelphia Alumni Chapter

On Thursday, evening, January 22, the chapter gathered at the Seventeenth Avenue Hotel in Pittsburgh, for a dinner and social meeting. About thirty brothers turned out and didn't take much urging to get the first business item on the program in order to save the time of the meeting, namely, that of disposing of the dinner which was set before us.

There being practically no business to be taken care of that night, our president, Brother Buehner, intro- duced the speaker of the evening who was Dr. L. O. Grodahl of the Union Switch and Signal Company. Dr. Grodahl reviewed the general subject of the atomic theories which he had dis- cussed at a previous meeting of the Pittsburgh Chapter, and continued further into the intricacies of the sub- ject. We were assured by the advanced no- tices of the meeting that Dr. Grodahl would enlighten us as to the method of making gold out of mercury by charg- ing the atomic structure as was re- cently published in the newspapers. He told us how this has 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 that using one gram of radium at $50,000, it would be possible to ob- tain with the same process the same 88 if the process were continued for 1000 years.

During this time one fourth of the radium is used up. Our interest on the investment compounded at 6% amounts up to about ten to the thirtieth power. (The common interest) and we really agreed with him that it would be a great pity to go to all the trouble and cost to get three dollars worth of gold.

The social committee presented the following schedule of events: first half of the year 1925: February—18th, smoker; March 17, theatre party (mixed); April 16, bowling party; May 13, informal party.

Since the last chapter letter, we have had two A-1 meetings, the first a smoker and card party, and the second a bowling party. At the last chapter meeting the committee was unanimous. We must say, however, that Bro. H. H. Race carried out his part of his suggestion with a broad smile, which was broader yet when he had the opportunity of meeting his brother on quarters for yours truly for apparent in- formation.

Hereafter Brothers be careful of your words, and moods. If you say something--no use to say anything you may also be fined. No shot is safer than prowling around with a game of the grape, the brave, but come out and see the fine- st anyway

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Watch us next year.

Pittsburgh Alumni Chapter

Schenectady Alumni Chapter

After a more or less protracted per- iod, all we say inquiring about the Schenectady Chapter of Eta Kappa Nu is that we have heard many compliments from the alumni, who kindly informed us of the same. A. S. Martin and D. O. Whelan, af- filiated Brothers, have been kept informed of posters and telegrams succeed- ing in bringing out a not too large, but nevertheless representative, group of alumni, who bided themselves to Sirk's restaurant for our meeting, March 23rd. When all had partaken of the repast and settled back comfortably, we held a short business meeting and election of officers, results as follows: President, D. O. Whelan, A23; vice-president, A. D. Brewe, corresponding secretary, L. C. Connelly, 23; secre- tary-treasurer, L. C. Connelly, 23; corresponding secretary, E. B. Low,

The Bridge of Eta Kappa Nu
The Bridge of Eta Kappa Nu

A'13; associate editor of Bridge, P. G. Bowman, '27.

Following the election our new president, Wihan, formally began his career by introducing Brother Weigl, who gave us an enlightening talk on the ways and means of editing The Bridge. He stressed the necessity of loyal support by the H. K. N. Alumni and their duty in assuming a part of the financial burden of Society activity, meaning that every alumni ought to be a Bridge subscriber. Furthermore, an active alumni chapter forms a bond, supplementing The Bridge, between the various undergraduate chapters scattered throughout the country.

Our old timer, E. S. Lee, was on deck and gave us a word of advice relative to our newly acquired enthusiasm and plans for the coming year. Of course he admitted that he knew "we" wouldn't slump, but he wanted us to guard against any such notion of the old days. He also told us that Secretary Connolly should receive a special recognition for his work, especially for the May 7th issue of the Bridge which he prepared. It was the first time in the history of the Magazine that we shall gather round for a good time and evolve more plans for maintaining an active alumni organization.

We further agreed that our chapter extend to all H. K. N. undergraduates the opportunity of employment in the General Electric Co. as an invitation to get in touch with us beforehand. We shall be glad to answer any questions or advice: in advance information and will endeavor to handle each one thru an alumni from the same chapter if possible. The same applies to newcomers who wish to see some assistance in getting their bearings after arrival. All that we ask in this case is that you inform us just a little before train time so that we may decide what to do with you when you arrive.

All letters should be addressed to Ernest E. Lee, General Engineering Laboratory, Room 504, Blvd. 28, General Electric Co., Schenectady, N. Y.

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 the last issue.

Four correct solutions were received. The lucky brothers of Eta Lambda will receive a year's subscription to The Bridge.


And the time has come again

The Brother's news to write;
From a mere subscription blank or two
We have a worthy task to do.

I'd like to say to every man
Something he couldn't make
Something that would make him remember
Something which goes like this:

"Tweedle be great to have each Brother
Share each other's thought,
Your children, sweethearts or just your job
Or that house you may have bought.

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

"So Brother, make your presence known,
We've space just a little for you;
We'd find out where you went,
The same as you would, too."

ROGER WILKINSON.

Brother Ernest White, M'23, has changed his mailing address from 125 Laurel St., Glendale, Ca. to 3212 LaCledo Ave., Los Angeles.

Brother C. E. Plumb, N'21, has been transferred back from Mexico to 825 First National Bank Building, El Paso, Texas, at which place he looks after Mexican sales for the General Electric Company.

Brother R. F. Tickel, I'14, who became a famous as a member of the Lost Soul covenant, must be given recognition as Secretary-Treasurer of the Engineering Sales Co., at 126 South 9th St., Minneapolis, Minn.

When the New York Telephone Co. was looking for good H. K. N. material they picked up K. E. Rubaker, E'24, and already he is studying their trunking problems. He lives at 240 Garfield Place, Brooklyn, N. Y.

Recent dispatches are to the effect that Brother C. O. Bickelhaup, T'11, is Vice-President in charge of operations of the Southern Bell Telephone Company, with headquarters at Atlanta, Ga.

The American Gas Co., 712 Locust Street, Philadelphia, has been capitalizing the services of Paul O. Reyna, R'12, although he is too modest to admit 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, Chiliicthoe, Ohio.

On November 5, 1924, the grand old stern left a precious $24 pound package at the homestead of Morale and Vernon Vendl at Roslyn, Pa. It was all set before hand and the package was named Irene—which didn't make her 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 'jolts' and see what the fellows are doing—also enjoyed the articles on 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 R. P. Burns is the producer of the Famous Players Lasky Co., directed the New Bridge to sent to 3044 Iland Ave., Chicago.

Brother Albert J. Loeb, B'97, is president of the Insulation Materials Company, 585 Erie Building, Cleveland, Ohio. He lives at 19720 Orville Ave., Cleveland.

Xi Chapter has been searching the remote corners of the world and this month cut their remaining number of issues. We can here announce that we print the following address of Brother Sherman L. Muth, Alabama: C. P. No. 4, 401 Commercial Co., Anniston, Ala. Good work and keep on.

Brother L. T. Folsom, M'24, is with the General Electric Company at Schenectady, N. Y.

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The Bridge of Eta Kappa Nu

H. W. Wabigail, O’21, is assistant engineer in the district engineer’s office of the Northern States Power Co., Lincoln Bld, Building, Minneapolis, Minn.

Brother L. A. Akeley, M. ’22, writes that the Pacific Tel. & Tel. Co., 535 Fall St., San Francisco, has engaged him as facility engineer (what ever that is) and the Brothers passing through or stopping in Berkeley, Cal, are requested to call at his residence upon their way out. He is now at 301 Aitkin Way, Shh! Flash! He’s just announced his betrothal to Miss Helen B. Starnett.

Brother L. P. Richardson, T. ’23, is a 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.

Epaphon Chapter 21 extends its best regards to both Brother and Mrs. Nelson R. Hibbsen at South Bethlehem, Pa. His big news is now at Lehigh University.

Brother George S. Langle, M. ’22, is in the switchboard requisition engineering office of the Illinois Power Co., in Miss Lou McNeil of Racine on October 19, 1924. They are enjoying married life at 702 W. Jefferson, Waukegan, Ill. Their wedding was celebrated at the Baptist Church, being connected with the Public Service Company of Northern Illinois.

John W. Heim, E. ’24, is now doing research work at Pennsylvania State College, State College, Pa.

Brother Paul F. Clinic, E. ’24, is an engineer at the Bell Telephone Company of Pa, and lives at 100 Linden Avenue, Collingwood, New Jersey. Besides making the wires and iron which go into the bones, Cling keeps his pencil hot as secretary of the Pennsylvania Alumni Chapter; “when the toll of a long day is over.”

The Westinghouse Electric and Manufacturing Co. has capitalized the X-Ray division of Brother W. O. Lippman, E. ’18, and appointed him Chief Inspector for that company in Springfield, Mass.

E. J. Mangney, O ’21, has assumed a position—incidentally—and is now enjoying a living at the job of convincing a group of critics that this is not good enough that the General Electric Co. is already on its way to solid success on the road to major enterprises.

Brother W. A. Kates, Th ’21, is an engineer with the General Electric Co. in New York, and is responsible for the orderly delivery of the Philadelphia Sub. Gas and Electric Co., at Wyocote, Pa.

Over in Salt Lake City the General Electric Co. is running a new office and is now advertising for sales engineers, so called, on the job of the L. J. Battey, A ’21, to swell their yearly income in the spectacular manner in which they have increased the superiority of the Colorado. We are sure to hear more of Mr. Battey may usually be located at 69 North State Street, Salt Lake City.

Brother G. A. Mutha, X ’22, is Line Plant engineer for the Cumberland Telephone and Telegraph Co., New Orleans, La.

Sunset on Sunday afternoon, January 4th witnessed the wedding of O. R. Martin, Mu 16, to Miss Margaret Garwalhite at St. Paul’s Episcopal Church in Oakland, California. Rose and rain came.

Carl Philippi is doing some research work with Dr. C. F. Gink, Columbia University, New York City. He is desirous of reaching the Pacific Telephone and Telegraph Co., offices of the district plant engineer.

Our resident correspondent in Buffalo, Illinois, informs us that Brother John R. Hall, A ’99, and his family are living in the city of Ft. Madison, Iowa, where Carper is engaged in work on the automatic train control, while the electric department of the Santa Fe Railroad is installing.

Leon T. Flaks, M ’24, writes that he is a testman for the General Electric Company at Schenectady, and lives at 537 Liberty St.

The Commonwealth Edison Company at Chicago knows well the quality of the work of those that Purdue graduates and naturally picked out Brother J. R. Patterson, B. ’23, for one of their engineers. He keeps his old grades and surely so in Room 509, Edison Building, 72 W Adams Street, Chicago.

Brother M. R. Bogart, B. ’06, elected to pass on some of his learning to the new generations and does so in the office of head master of the Tillott School, 4217 Swiss Ave, Dallas, Texas.

The undergrads at Armour Institute are now shoveling under the ice. Brother D. E. Rich- ardson, D. ’24, who hands out the daily E. E. problems. He takes the sup. inners home to puzzle over at 6112 Arbor Ave, Baltimore, Md.

Brother A. M. Dawling, X. ’20, is employed in the East Coast office of the Light and Tobacco Company at 500 Broadway, New York City. He lives at 200 82nd St., Brooklyn.

When it comes to selling things the boys from Illinois have the best record of the H. J. Robles, Z. ’16, who can make you want to buy anything from the Boardwalk to the river. His immediate beneficiary in this respect is the York California Construction Company, 809 Myrtle Ave., Los Angeles.

Brother E. M. Kerr, T ’20, writes in red pencil (red denoting anger), “I think the letter of Mr. White is a mean’ letter and I wouldn’t recommend it to circulation managers of magazines that live by virtue of public favor.” However we still think that Kerr is a darned good guy ‘cause he accompanied his crud words with a check (which we were able to cash). Brothers wishing to sympathize with him will probably be forced to wait in the hall at 61 Fifth St. North, Portland, Oregon, while he is living in the city of Ft. Madison, Iowa, where Carper is engaged in work on the automatic train control, while the electric department of the Santa Fe Railroad is installing.

Brother Wm. B. Dober, A. ’22, is an engineer in the outside plant division of the Illinois Central Telephone Company, and the best information at hand states that he is working on a new compound vanity case, especially designed for the use of linenmen, and guaranteed to withstand wind, moisture and dust waves. The patent is pending as yet.

Ernest V. Strack, K. ’22, was married to Miss Elmer M. Watson in Lewis- ton, N.Y., on July 12, 1924. Brother Strack had a delightful honeymoon trip included in which was a cruise to crossing the New York state via the Erie and Barge canals and the Mohawk river and then down to the port of Portland who take him to their home at Spring Valley, N. Y. From that point he was occasionally, having annexed the United States Army middleweight championship, to see his mother. While being a weight class at Baltimore last spring, he had a hand in participation in the Olympic games by landing to Walter D. Wright.

The present address of Brother R. D. McBroom, X. ’24, is 4 Willet Street, Schenectady, N. Y.
The Bridge of Eta Kappa Nu

Just as further proof of the fact that the Eta Kappa Nu branch in this city is growing and broadening if not taken too seriously, Brother R. Ruby, M '22, F 13, has been solicited to take part in a divergent series as far as technical research was concerned, and became stewart at the M. C. Threlkill Commissary, 710 Equitable Bank Bldg., Los Angeles.

Brother G. S. Bilbrough, M '23, was invited by Kappa chapter and was immediately followed up by the A. T. & T. Co. last fall, and now after having studied the telephone game for some months with the Brooklyn "Y" as a bit of influencing environment, he confesses that, although the phone operators fussed him quite a bit at first, now he can hold his own with any hard boiled chicken that ever set leg and ankle on Broadway.

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

George E. Schweitzer, Epelion '20, holds the position of engineering assistant in the plant department of the Bell Telephone Company of Pennsylvania, located at 261 N. Broad St., Philadelphia.

Brother Captain Win. K. Stewart, R 18, is now in service at Fort Ruger, Hawaii.

Brother Bay N. Philom, M '23, has recently resigned his position as Secretary-Treasurer of the Electrical Contractors' Association of Sacramento, to become an associate editor of a publication which is published by the McGraw-Hill Company of California at 883 Mission Street, San Francisco. To go with the change of business, Philom announces his new domicile and address at 6314 Lincoln Ave, Alameda, California.

Forsaking a berth on the faculty of Armour Institute of Technology as assistant professor of electrical engineering to engage in engineering teaching and development work for the Fanett Companies Corporation, Illinois, is a most earnestly yours truly, one of our illustrious Brothers has done. Brother C. E. Stryker, D '11, electrical engineer for the above firm was the perpetrator of this horrible crime and has burst into print by writing an article "Charging Telephone Signals" which appeared in the February issue of Rail- way Signalling. The seriousness of the charge has not as yet been established.

Good Work! What's it all about? Another Lost Soul has stricken this rapidly dwindling list of strayed Brethren. The one who has thusly brought fame to his chapter is a fellow named Harrison, 22, and we are pleased to record his address as 1722 North 14th Ave., Birmingham, Ala- bama.

Brother Briggs O. Browne sends us his address as 326 Euclid St., Santa Monica, California.

* * *

This line should carry a picture of a small motor car driving up Main Street, (or is it Monument Boulevard) in Richmond, In- diana, bearing the occupant Brother E. P. Carpenter, M '23, in the rear seat, waiting for A. M. Not having either a cut of a swell car or one of a man riding in the thing at that time we can only mention that Brother Hazard is Factory Manager for the C. W. T. M. Motor Car Co., 12th and N. E. Sts., Richmond, Indiana.

Another Brother has recently re- turned to his former residence in the good old U. S. A. While Cuba may be a bright spot on the horizon for some thorny unfortunate, Brother L. J. Ruggles, B '18, decided that Chicago and vicinity was more than enough for him. He is still with the Action Motor Car Company, 1009 West VanBuren St., Chicago, and maintains a daily schedule between that home and his Wheaton, Ills.

At the midwinter convention of the A. I. E. E. Eta Kappa Nu was ably represented by the varied program held at the Engineering Societies Building, 33 West 39th Street, New York, Feb- ruary 9 to 12. On Tuesday afternoon, February 16, the session was turned over to the committee on power trans- mission and distribution, and they in turn selected such representatives of their field as best could cover the topics of major importance at this time. Testing Impregnated Paper-Insulated Lead-Covered Cables was the title se- lected by Brother Everett S. Lee, A '13, of the General Electric Company, and concerned itself with "a study of the value of the present code cable testing and suggestions as to the methods which should be continued to obtain the most trustworthy evidence which it is possible to get at the present time." On the following Thursday afternoon, Brother D. E. Branson, B '17, of the A. T. & T. Co., presented the subject: Metallic-Polar Duplex Telegraph System for Long Distances, being a description of a new telegraph system which may be superposed on toll telephone 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 bewildering subject, for its charms have led Brother A. A. Hogere, D '18, great 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 attorney. His success is assumed because he has devoted a great deal of attention to the subject during recent years.

Brothers, here's some real news: Mary Spangler, — Born January 5, 1924.

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

Weight—74 (pounds, not ounces).

Color—Black (the eyes of course. Maybe her hair is black.)

Brother E. P. Carpenter, N '24, 1619 Columbia Ave., Chicago, III.

Brother Phillips J. Kent, K '14, has been made accessory engineer with the Marshall Motor Corporation in Detroit, Michigan.

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. Blower, B '19, is with the N. Y. Edison Co., 44 E. 14 St., New York City. He samples nearly all kinds of New York transportation facilities, when playing between work and play, the latter at 27 Wanning, Bloomfield, N. J.

Brother W. F. Gillmore, Z '28, has the words VICE PRESIDENT etched on a gravestone in his office door at the Ohio Spring Co., 1845 E. 47th St., Cleveland, Ohio. When he has finished outlining the company's policies for the coming ten years, Brother Gillmore retires to 3832 Ormond Road, Cleveland Heights, Ohio.

Brother A. W. Seyfjogel, A '22, came East primarily to work for the Western Union Telegraph Co., but the last time we saw him he was operating the machine at the office of several near Glory Swaminan in a Brooklyn theatrical performance which the crew made famous.

Brother Samuel A. Berg, O '21, is an engineer assistant of the Brussels Edison Company and puts up with "the long" at Central YMCA, 56 Haninon Pl., Brooklyn, N. Y.

W. T. Burnett, A '03, is in the engineering department of the Sagner Electric Co., Converse Ave., and No. 11th, Springfield, Ill. He lives at 1836 Lowell, Springfield.

Once again the broad field of elec- trical engineering is broadened for the Indiana industrial director of the Saint Paul Association of Public and Business Affairs is now in demand. Brother R. A. Lockwood, 1657 Osceola Ave., Saint Paul, Minn.

Brother William F. Cassidy, Jr., K '21, is a superintendemt for Foresee Pierson and Co., Inc., 109 Davenport St., New York City. He lives at 2600 Boulevard, Jersey City, N. J.

The firm Warren D. Spangler, Inc. felt the need of a good engineer so they engaged the services of Brother F. H. Pancost, Z '20, who has his office at 1603 Union Trust Building, Cleveland, Ohio.

Brother L. J. Rust, A '16, is employed by the American Apparatus Co. at 165 Michigan St., Milwaukee, Wisconsin, and makes his home at 501 Cass St., Apt. No. 7, Milwaukee.

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J. E. Guengerich, I '12, is with the Western Union Telegraph Co., and lives at the Boosman's Bank Bldg., St. Louis, Mo.

Brother Chas. S. Morse, K '21, is an electrical engineer for the Western Union Gics, Electric Light and Power Co., Constitution and Monument Streets, 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 annexed the services of Brother Wilmer P. Holben, Ep '14, and to date he has arrived at a position as assistant to the district engineer. After developing plans for making more money for the company and himself, Holben retires to 610 N. 11th Street, Allentown.

Brother M. R. Cook, A '24, is already taking the world by the tail and doing a little twisting as chief engineer of the Western Union Telegraph Co., 1065 Pacific Ave, Chicago. He makes his residence at 203 20 St., Kentworth Ave, Oak Park, Ill.

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- ematics at the University of Colorado.

Brother C. T. Evans, G '08, at the last meeting of the Milwaukee A. I. E. E. mini Chapter, expressed a desire to see THE BRIDGE publish cross-word puzzles, and also to see the "Red Hot Rivet." Those present at the meet- ing, according to dispatch, decide that the request be handled in such a way so appropriate, but unanimously approved the latter suggestion.

Another Wisconsin has gotten the fever too, this time in the form of L. R. Vastroot's, K '12, address as 388 5th Avenue, Wauwatosa, Wis.

Brother B. R. Lee, R '22, holds the position of Electrical Engineer with the U. S. Reclamation Service, and is located at Powell, Wyoming.
The Bridge of Eta Kappa Nu

Brother O. E. Sinclair, A'17, holds the position of chief engineer of the Northen Illinois Telephone Company, with offices located at 72 West Adams St., Chicago, Illinois. His position is one that requires constant attention to the business of the company, and he is highly regarded for his efficiency and integrity.

Brother R. H. Hand, A'17, has been appointed as manager of the Illinois Telephone Laboratorises at 460 Madison Ave., New York City. He is well known for his expertise in telecommunications and has made significant contributions to the field.

Brother B. C. Draper, I'19, is managing the State University of New York at Albany, where he has been a driving force in the development of the university's telecommunications program.

The Illinois Bell Telephone Co., is efficiently employing Brother J. E. King, O'22, as an equipment engineer. He works at 222 West Washington St., Chicago, and carries a large load of work with him.

Brother N. Nakamoto, K'24, is a laboratory assistant for the Public Service Company, Irvington, N. J., and reports he is well. His work is being carried out by the National Bureau of Standards.

Robert C. Rine, O'22, is located with the Northwestern Bell Telephone Co., 116 West Randolph St., Chicago. He has been handling the work of the company with great success.

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THE BRIDGE OF ETA KAPPA NU

Drafsmen for the Illinois Central R. R. are scarce, but we have one anyway. Brother L. T. Landby, A'22, holds this distinction and we quote his address as 1421 Norwood St., Chicago.


The Pacific Tel. and Tel. claims another of the Brothers in C. R. Bolin, M'22, who is an automotive engineer, located at 517 Sheldon Ave., San Francisco. His residence address is 967 14th St., Oakland, California.

Brother J. G. Stewart, G'08, could 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. M. Moore and Co., Engle, 1916 L. C. Smith Blvd., Sacramento, Calif.

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

W. J. BLUM, A'14

With profound sorrow we report the death of Brother Walter Joseph Blum, A'14, who passed away January 13th, 1925, at Denver, Colo. Brother Blum suffered a wound in service at Cantigny, developed pulmonary troubles and never recovered. He had spent six years in various hospitals and sanitariums and put up a very brave fight for his life, only to lose his battle on January 14th.

D. R. PALMQUIST, 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 Brother Terry was employed as a lamp specialist by the B-R Electric Co., Kansas City, Mo. 

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Bridge Non-Subscribers

Continued from March Issue

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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.
THE FLAME THAT FIRES

College athletic teams illustrate forcibly one truth—men achieve by inspiration. The bleachers’ cry of “Hold ’em; Hold ’em!” has kept many a goal line uncrossed. “Touchdown! Touchdown!” has scored countless victories.

In an engineering organization like Westinghouse, this inspiration comes from engineering executives—men who correlate, organize, administrate, and inspire. They are engineers first, but engineers with the power to enlist the best of other men.

Many derived their own first inspiration from the Founder, George Westinghouse himself. He took a contract for electrifying the New Haven Railroad, for example, before the apparatus had even been designed.

“Now I’ve dropped you into the middle of the pond”, he told his engineers. “It’s up to you to swim out”.

There was plenty of swimming—but Westinghouse knew his swimmers.

As has been true since organization began, the demand for men who can develop into leaders is far, far short of the supply. Westinghouse welcomes them. All industry welcomes them. Organizations lead because men, in turn, lead them.

This advertisement is seventh in a vocational series, outlining the fields for engineering achievement in the Westinghouse organization. A copy of the entire series will be sent to anyone requesting it.