

Vol. VII, No. 4

Armour Institute of Technology, Chicago, Illinois

Tuesday, March 3, 1931

REVISION IN E. E. COURSE TO MEET NEWER PRACTICE

Advanced Theory Given In Circuit Analysis Course

LABS IMPROVED

Due to the modern trend in electrical engineering practice, it has been found advisable to digress somewhat from the electrical course which has been pursued at the Institute for the last few years.

The efficiency and strength of the department have been increased to quite an appreciable extent by the recent improvements in the laboratory and by the acquisition of new equipment. The changes in the electrical curriculum which are anticipated will insure Armour's reputation of having one of the finest and most comprehensive courses in the country.

According to the present plans, it is intended to cover, during the this work. sophomore year, certain subjects which have been given in the junior year, and to take some of the senior subjects in the junior year, and so to have part of the time in the last year to present additional studies.

Subject Watter Improved

A few branches of electricity which have been found to be of minor importance will be dispensed with, in order to allow these new subjects to be taught. For example, detailed treatises on magnetic measurements and ballistic galvanometers will give way to courses, the current importance of which is greater.

Professor Richardson is giving, as an experiment, an elective course in "Circuit Analysis" to senior ginning. electricals. If this is received with enthusiasm by the men who take it, and if it is considered to be of sufficient importance, it and other similar courses may be included eventually in the regular curriculum.

Ask Seniors to Order Announcements Early

campaign for Senior graduation announcements will begin and will last until May 1. The announcements will come in two styles: one with leather engraved covers at 50c each, and the other, with paper engraved covers at 25c each. Samples of these will be carried by members of the Announcement Committee and may be inspected at any time. There will also be a display in the lobby of the main building. The committee is composed of the following men:

Art Jens, Chairman, M. J. Lamka,

F. F. Strassenberg, C. M. Westerman, R. H. Windbigler.

Any one of these will be glad to take an order.

This plan gives two months in However, the committee requests that orders be placed as soon as possible. The work will be lighter, and mistakes fewer, if all orders are in early.

Conditions Must Be Removed This Week

noon at 2:00 o'clock. The civils, would be made by last Tuesday. under assistant Professor Grafton, tion in the civil drafting room. Professor Freud will test out his Room C, Main.

ceived in subjects not listed in the mour colors of black and yellow. with the instructor.

PROGRAM CARDS DUE There are still a few students who have not placed their program cards on file.

The office of Deans requests that these be turned in immedi-

RADIO OPERATORS PLAN TO REBUILD ARMOUR STATION

Changes in the operation of the Institute radio station, W9NV, were made at a meeting of the Armour Radio Association last Friday. The manner of conducting meetings and the time of election of officers was also altered.

The radio transmitting station, now in working order, will be employed to maintain regular schedules with similar units in other colleges and universities. After a definite system is arranged, the transmitter will be rebuilt as a modern, crystal-controlled arrangement, conforming with the best of present day practice. E. G. Squires, the chief operator, will supervise

Meetings of the Association will be held regularly at 10:30 on the second and fourth Fridays of each month. At these meetings it is planned to have round-table discussions of radio problems or a speaker from the general field. In this way, those members who are not too deeply concerned with the subject will find as much to interest them as will the licensed operators. R. Van Osdol and M. Fagen will have charge of these programs.

Code lessons for beginners may possibly be presented if enough individuals desire them.

The constitution of the Association was altered to provide for election of officers at the end of the school year rather than at the be-

Bridges, Subject Of Lecture To Civils

A talk on the "Aesthetics of Bridge Design" was given last Friday before the Armour Branch of the Western Society of Engineers by Professor M. B. Wells. Many valuable suggestions as to methods of beautifying steel bridge struc-One week from today the sales tures were pointed out for the benefit of the competitors in the nation-wide bridge design contest sponsored by the American Institute of Steel Construction. Slides and projections from book illustrations were used extensively to show the unnecessary clumsiness and lack of pleasing lines in structures put up during the early days of this country. Good looking bridges are so few in number because it is so difficult to duplicate ancient standards of beauty with modern materials and methods of construction. Symmetry of design, use of contrasting materials, adaptation to the site and the carrying out of a general motif were also discussed.

In this contest all the data concerning the bridge is furnished the student. This limits the competiwhich to order announcements. | tion considerably since the structural development will be about the same in every case.

Seniors Now Exhibit Jewelry on Campus

Last Friday afternoon the Senlors received their jewelry from members of the committee. It was the Delta Tau Delta house. Condition exams start this after- previously announced that delivery

will tackle Graphics Problems along and charm are in black or red onyx with Railway and Highway Loca- on which is mounted the A. I. T. monogram.

A majority of the Seniors are sedoubtful chemistry students in curing rings or charms with the staid black background, possibly to When conditions have been re- be more in keeping with the Ar- by talks and speeches.

following schedule, they can be re- Those who still wish to may order | sey Suter, instructors at the Art moved only by special arrangement jewelry now and be reasonably Institute, as well as a number of

Armour Journalists Enjoy Informal Talk By Woodruff

In an intimate informal talk last you're a book they'll say: 'aw, he's Thursday evening at the Sigma one of us,' and read your stuff." Kappa Delta house, Harvey T. Press Club about his experiences as successor to "By Heck," a sports a sports writer and column con-| feature at the time. His amusing ductor.

group was put at ease by the brought down the house, and incihomely wit with which Mr. Wood- | Aentally brought up such subjects ruff responded to Professor Schom- as what the public wants, what the mer's introduction. From then on editor will take, and what the writthe boys were held too interested er gets. to smoke the expensive cigars prothis meeting was essentially a smoker, pays great tribute to Mr. self interesting to everybody.

With the humble mien so characteristic of all professional men against taking up with the newspaper game. Yet this did not predo so in spite of the dissuasion.

umnist" he said, "is to let your ning's entertainment to a close as time been engaged in the survey readers think you're a boob; no- all present still seemed inclined to of numerous theaters throughout

In response to the question as to Woodruff of the Chicago Tribune how his column first found a place told the members of the Armour in print he explained that it was a recollections of the vicissitudes of Right from the beginning the nursing an infant column almost

Keeping up the theme of remivided for the occasion, which, since niscing, Professor Schommer, to whom the credit must be given for | Electric Company, will address the obtaining Mr. Woodruff's services Woodruff's knack of making him- as speaker, recounted many lively on "Talking Motion Pictures" next episodes of his life.

"Jawn," with commendable selfrepression and super-human willwhen pressed to outline the oppor- power, omitted all references to tunities of their calling, he advised "the big one that got away," or in the commercial field. The prob-"the bigger one that didn't."

After the light refreshments, a neer is confronted will be indivent him from offering some inside large group collected about Mr. cated. information to those who might Woodruff and Professor Schommer and the talk continued. Only the for Western Electric systems in the "The secret of survival as a col- late hour finally brought the evebody likes a Smart Aleck, and If listen to Mr. Woodruff's anecdotes.

Engineers Hold Joint Meeting

Production and distribution of electric power from the financial angle was the theme of Mr. Bailey's address at a joint meeting of the A. I. E. E. and the A. S. M. E. which was held last Friday morning in the Assembly Hall.

As Mr. Bailey pointed out, there are many problems which confront those who invest their money in the power production game and not the least important is that presented by the interest on the sum invested in equipment. This charge is what is called a fixed charge and as such is present whether the plant operates at full load of stands idle for hours at a time.

In addition to this type of fixed charge is that imposed by replacements of obsolete or worn out equipment and the cost of projecting lines into territory which gives only a light load and consequently little revenue.

was desirable to keep the apparatus operating on an evenly distributed power factor because this cuts down the unit cost and in this connection he gave a hypothetical resume of the development of the load in a small city as industry begins to creep in. Particularly interesting was Mr.

Bailey's explanation of the operation of so-called mergers in which the houses sell power back and the smoker?" forth among themselves when the load on one of their number becomes higher than capacity. On this topic he gave many illustrations of such co-operation taken from his experience, among those being the explanation of the Chicago-Boston Power hook-up which was headlined in the newspapers some time ago.

Four Arx Initiated At Scarab Banquet

Four new members were initiated into Scarab Fraternity, Friday night, February twenty-seventh, at

The formal initiation was held at seven o'clock with a banquet in Backgrounds of both the ring honor of the new men following. Those initiated are:

> Donald Braun, '32. Emil Minx, '31. Raymond Peterson, '32.

Charles Schock, '31. The banquet was then followed

Ralph H. Hammett and W. Lindsure of delivery before graduation. alumni were among those present.

Favor Riflemen To Win Big Meet

Leading by 186 points the Tech sharpshooters are now in the fifth week of a six-week meet for the Illinois championship. McHenry, Des Plaines and Downers Grove follow Armour in the order named. According to the members of the squad victory is certain. In the individual standings Armour is in possesion of 1st. 2nd and 4th place. and is tied for third. Last week the squad beat the strong Fairport Rifle Club of Perry, Ohio, 1800-1727, in a postal match. Tonight the men will engage in a shoulder-toshoulder match with the Morgan Park Military Academy at Morgan Park. Next week the club will shoot against Sunburst, Montana, by way of telegraph.

Any one interested in marksmanship is invited to the club headquarters in the basement below the second entrance to Chapin Hall.

The speaker pointed out that it | Chance To Earn Tidy Sum Offered Smokers

Fifty thousand dollars, in prizes, is being offered by the Reynolds Tobacco Company, makers of Camel | quaint American invention comcigarettes, for the best answers to monly known as the "swipe" or change has recently been made in secutive fifths and other "gramthe wrapping of the Camel pack- matical" errors in this piece are not age and what are its advantages to composed, but are as they sounded

The contest closes tomorrow, so down at various times. hurry home now, all you cigarette mail tonight.

Calendar

Tuesday, March 3 5:00 P. M.—Orchestra Rehearsal. 2:00 P. M.—Condition Exams— March 3-5-6.

Wednesday, March 4 4:00 P. M.—Swimming — Armour vs. Loyola at Loyola. Thursday, March 5

4:00 P. M.—Freshman Orchestra practice. 5:00 P. M.—Glee Club rehearsal.

Friday, March 6 10:30 A. M.—Cycle Pictures. Gymnasium and Assembly Hall.

> A. I. E. E. meeting, Room D, Mission, talk on "Talking Motion Pictures" by H. Merril Smith.

Saturday, March 7 8:30 P. M.—Boxing — Armour vs. Bloomington at Bloomington, Ill.

SENIORS TO CHECK CREDITS Seniors have been requested by the office to see Mr. Kelly about checking credits as soon as convenient. There is still time to see that all credits are properly listed so that in case of some error the student will not | Pictures to Be Taken in be barred from graduation at the last minute.

TALKING MOVIES SUBJECT OF NEXT A. I. E. E. MEETING

Mr. H. Merril Smith of Electrical Research Products, Inc., the Sound Projection division of the Western student branch of the A. I. E. E. Friday at 10:30 in Room D, Mission.

He will present a general discussion of the operation of recording and projection apparatus as used lems with which the sound engi-

Mr. Smith is Technical Inspector Chicago area, having for some the Middle West, supervision of equipment installation, and maintenance work. His wide knowledge of the subject and broad experience in its application should provide background for an instructive lecture.

All who are interested in this subject are welcome to attend the meeting.

Glee Club Practices Home Concert Songs

More men are needed by Dr. Daniel E. Protheroe for the Glee Club. To repeat what appeared in last week's article: it is really an opportunity to be able to receive vocal training from such a noted director as Dr. Protheroe and every student who has the time should jump at the chance.

The Glee Club is holding practice every Thursday night at five o'clock in the Assembly Hall. New selections are being chosen and learned in preparation for the Annual Home Concert, which is to be held about May 21 during Junior Week.

Among the selections which will comprise the Glee Club's part in the Spring Concert are "A Little Close Harmony" by Geoffrey O'Hara and "Italian Salad" by Richard Genee.

The former is a take-off on the the question: "What significant barber-shop harmony. The conto Mr. O'Hara, and which he jotted

The latter is a musical jest in the inhalers and get your answer in the form of the finale to an Italian opera. It is composed of most all the musical terms in use which makes it very instructive as well as amusing to the listener.

Annual H.K.N. Essay Contest Announced to get their shingles.

cal engineering fraternity, is conducting an essay contest open to sophomore electricals. The papers, of from 2,000 to 4,000 words in length, are to be written on some the plans for the freshman smoker, electrical topic. Either a copy of the date of this event has been the Standard Handbook for Elec-postponed from March 6th to trical Engineers or its equivalent | March 13th. This was necessary will be given to the author of the because members of an orchestra. winning essay.

April 1, 1931. They will be merited time for practice. on subject matter, quality of pres-

R. Patzelt, '31.

W. Drigot, '31. W. E. Penfold, '31.

T. B. O'Connor, '31.

M. Fagen, '32.

EDITOR OF CYCLE GIVES SCHEDULE OF TEAM PHOTOS

Assembly Hall and In Gym

PROGRAM COMPLETE

A. H. Jens, editor-in-chief of the 1931 Cycle, has arranged a schedule for the taking of the first Cycle pictures on March 6, 1931, both in the gymnasium and the Assembly Hall. He has worked out a definite schedule of times that must be rigidly adhered to in order that the program may be complete.

Formal group and individual pictures of the basketball, boxing, golf, and swimming teams will be taken in the gymnasium while the pictures of the orchestra, Glee Club, and Stresses and Strains will be taken in the Assembly Hall.

To Snap Team Captains

In addition to the group pictures the following individual pictures will be taken: boxing captain, boxing manager, swimming captain, swimming manager, golf captain, golf manager, orchestra conductor, Glee Club conductor, the director of Stresses and Strains, and individual pictures of the basketball players. Athletic teams must appear in their uniforms while the musical organizations must appear in their regular formal dress.

Schedule

The schedule of time for these pictures is given below:

Gymnasium 2:45-1931 Basketball Team. 2:15—1931 Boxing Team.

2:25-1930 Golf Team. 2:35—1931 Swimming Team. Assembly Hall

1:30—Orchestra and conductor. 1:40—Glee Club and conductor. 1:50—Stresses and Strains and director.

Fire Protects Learn Details of Life Work

Mr. R. E. Vernon described the work and organization of the fire prevention associations to the Fire Protects at the meeting of the F. P. E. S. held Friday, February 27. Of all the deaths in the home from accidents, thirty-three per cent of them are caused by fire. Most of these fires are started by the occupants trying to use gasoline or kerosene to start fires quickly, or for cleaning purposes.

The industrial corporations, etc., are also working hard to cut down fire losses. For instance the Youngstown Steel and Tube Company cut their fire alarms from 2,274 to 500 in three years.

According to Mr. Vernon the whole country is now vitally interested in preventing fires and are everywhere extending their efforts to reduce the loss per capita. Some very interesting pictures of

scenes of fires were passed around at the close of the meeting.

President Wilde reminded the Sophomore fire protects that they must hand in their names in order

Eta Kappa Nu, honorary electri- Freshman Smoker To Be Held March 13

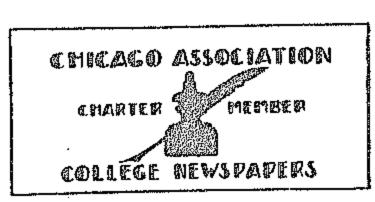
In order to successfully promote recently formed among freshmen The essays are to be given to Pro- for the purpose of offering enterfessor Richardson not later than tainment at the affair, wanted more

L. A. Callen, social chairman, has entation, and form. The judges are: announced that tickets are now on sale and may be procured from him. Architects may purchase theirs from W. Krol.

> The price of tickets is twentyfive cents.

apmour Teen News

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A CATA	A WE				•		

"Like it, I will not build: better, I cannot." -Michael Angelo. Born, March 6, 1474.

A Word A Day

An engineer, although he may have a splendid working knowledge of engineering, will find himself distinctly at a disadvantage if he hasn't a command of the English language and a suitable vocabulary. operation." In his work he will be finding himself repeatedly required and called upon to voice his plans and opinions, out all right." either by spoken or written word, to people expecting clear, concise, and unified language.

The organization of our civilization is such that pen and the engineer must take this into consideration. If he finds himself incapable of expressing himself in this manner, what chance has he to expect ad- elephant is that they have never been offered for a vancement or promotion from his employers, who will dollar down and seventy-five cents a week. be probable hearers?

front and appearance that is put up, but also upon on the leg of his pants. what is said and how it is said. These thing and deeds attrimutes make the engineer decidedly inferior to enlarge the vocabulary. the man who, although he may not be as intelligent, has the ability of expressing himself properly.

Of the two self expression constituents: a command of the English language and a vocaulary, the latter is more important, for it must be acquired by intiative, while the former is a matter of instruction. Before our book knowledge can be put into play a vocabulary is necessary.

An excellent method of increasing the stock of usable words is to look one up each day, study its definition and derivation and be sure as to its accepted use and pronunciation. Five minutes spent in this way each day will work wonders with a mediocre vocabulary. Continuance of this habit will soon give a certain pleasure or fun in finding and using these new found words.

Looking up a word a day will in time give an understanding of the correct use of long words, and the method of avoiding trite, meaningless ones in addition to knowing how to use common words. This does not mean, however, that one should revelop an unwelcome

egotistical attiture. sary to establish this or any other good habit. Being nothing. We cooked some for dinner and my paw inconsistent, giving up with the end in view of be- ate fifteen acres of it." coming impatient will never make the reward attainable. Discouragement may enter when your acquaintances say, "Aw cut out the two-bit words"; but then you can smile and say, "It's much easier for these fellows to be critical than correct or encouraging."

E. W. C.

"The Slipstick"

Cleave to "The Slipstick"; let the Slapstick fly where it may.

We Were There Too

Well. Harve got pussonal and told us all about his ing when we realize that the need courses in Roman Law and Botany. . . . He even let on for self-deception arises from inas to the significance of the oft-talked-about but lit-tangible forces of destiny. The tle-known-of middle initial "T." . . . He does all of his performers in "Lazzaro" are servcolumning, except for contributors. . . . Does not believe in stereotyped, well prepared speeches, but rather all times, their own personalities to rambles along. . . . Says newspaper work is a great the idea. game, but don't get in it. Y'only get \$28 a week. . . Likes to kill the copy reader who "cuts" the best part power of the observer to project of his colyume. . . . Told us the story of the "Wake" and "Help, Help." . . . His wife used to call him the analyze his consequent reactions. "Athletics Editor" of the Trib. . . . Engaged in a wit Fortunately, these processes are and wisdom contest with Jawn Schommer. . . . Relived his student daze with us. . . . Was extremely informal.... A great fella, Harve.

FOR THE BACKWARD READER Eht tseggib stun, ti smees ot em

Era ton ni deddap sllec ro esrow. Tub esoht, ekil uoy, ohw yllufepoh Tcartxe emos esnes morf siht loof esrev.

Bob: "What's the difference between Cootville and ity. What takes place in a small Chicago?"

engines to see where the fire is, but in Cootville the fire engines follows the crowd to see where the fire is."

"Oh, Ruth, I met Katherine the other day; hadn't but similar stimuli could well ocseen her for years."

"Has she kept her girlish figure?" "Kept it? She's doubled it!" —REM(not an ad.)

The Bongineer says that the successful man is one who knows what he wants, and leaves it alone.

No Standing Room

Landlady: "Why have you put your tea on a chair?" Boarder: "It was so weak I thought it had better sit down."---

up to marel's

"Yes, sir, what can I do for you?" "Oh yes, from lack of sincerity would result in Armour. Graduating this year?" "That's nice. I sup- a miserable flattening. The perpose you've endured a hard grind these last four formance of "Lazzaro" by the years, but it will pay in the end." "Now do you like Goodman Repertory these photos at \$75 the dozen, or do you prefer these seemed, on the whole, to remain at \$802" "Yes, we have some at \$7.50." "Your name well-balanced; restrained where and address, pleased" "All light, you will find the undue heroics might be easy, and artist on the second floor."

"Yes sir, sit down right there, head up, chest out, interest might lag. Mervis did chin in, smile." "No, not like that, wipe off that grin. Now, steady. Can't you be still?" "Now we'll have to take that one over. Steady, steady. Now turn around. Fine, you're through. Next gentleman!"

Co-ed: "But, father, what am I to do without a riding habit?" Father: "Get into the walking habit."

Joe: "I'm going to the hospital tomorrow for an

Pete: "Good luck to you; I hope everything comes

Dollar Bill Says:-

The Russians are trying to Americanize their railideas can only be expressed materially by mouth or roads, just as Americans have about decided to motorbussize their own.

The w.k. Joe Collitch had to give away his automatic

The only reason some families don't own a green

The world, it appears, judges not only upon the lighter. He couldn't break himself of scratching it

After all, golf is nothing more than a game of bankare character criterion. Deficiencies in the foregoing er's croquet. Designed to reduce the abdomen and

LIFE'S REAL MYSTERY

Instead of wasting time trying to discover where we came from and where we're going, why don't the scientists find out where we are-which is more important.

Advice is the most worthless commodity in the world. Those who might profit by it don't need it, and those who do need it won't profit by it-if they could, they would not need it.

YOU WOODEN THHINK SO

"Anyhow, there's one advantage in having a wooden leg," said the veteran.

"What's that?" asked his friend.

"You can hold your socks up with thumbtacks." --Bloney.

A SQUARE MILE WAS A SQUARE MEAL "Crop failures?" asked the old timer, "Yes, I've seen

Consistency, perseverance, and patience are neces- a few in my day. In 1860 the corn crop was almost

Confucius might well have said—"Every normal man has two ambitions. First, to own a home. Second, to own a car to get away from his home."

Well, that's that and who cares?

-Phil J.

LAZZARO By Luigi Pirandello

Presented by the Goodman Repertory Co. "Lazzaro," one of the later of Pirandello's numerous plays, is a thought-provoking presentation of life as a most dismal deception. With bitter compassion, Pirandello creates in his characters unreal presumptions of the truth only that they may be forced to discard these beliefs as vain and illusory. His outlook is all the more despairants of the theme, subjecting, at

Enjoyment of this play lies in the himself into its conditions and to not as studied nor as difficult as their description makes them appear. In fact, most of our interpretations of experience are formed by exactly such mental operations. So despite the instinctive suspicion and dread of the "heavy drama" in much to maintain this condition. any sense, "Lazzaro" would be pleasurable fare for most of us.

There is appeal in its universal-Italian village might just as well step out of character. Robert Gold-"Rob: "Well, in Chicago the crowd follows the fire be transferred to the most Amer- braith was creditable though traces ican of communities. The characters would necessarily differ in in the play, his conduct as the outward appearance and station, cur. Though of the reactions we Pervis, a recent importation of the can not be certain, it is highly company, worked hard and well. probable that the basic sameness She perhaps overstepped a bit at in human nature would result in similar response. Further, the dozen individuals concerned in portraying Pirandello's philosophy of life could be found in any group of humans.

With an abstract theme such as is found in this play, the utmost care must be exercised by the performers. Over-acting might easily turn it into a ghastly farce, while strengthened at most points where

NEW BOOKS

NON-TECHNICAL I Remember Opie Read

The Great Meadow Elizabeth Madox Roberts

TECHNICAL Man, the Problem Solver Harold Benjamin

Introduction to the Mathematics of Statistics Robert Wilbur Burgess

Treatise on Leather Belting George B. Haven

Crusades of Chemistry J. N. Leonard

Linear Integral Equations William Vernon Lovitt

Creative Chemistry Edwin E. Slosson

An Introduction to the Geometry of N Dimensions D. M. J. Sommerville

His handling of a highly emotional part was convincing without being "stagey"; sincere without the sacrifice of appeal. At no time did he of inexperience were evident early height of his lines was reached more than compensated. Gladys the high spots but women are expected to do just that, on the stage or off. In general, considering the nature of the subject, the performance was better than a good one.

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Modjeski Honored For Bridge Design Skill

Exceptional skill of bridge design and construction won the Washington Award for Ralph Modjeski. The Washington Award is one of the highest honors that can be bestowed upon an engineer.

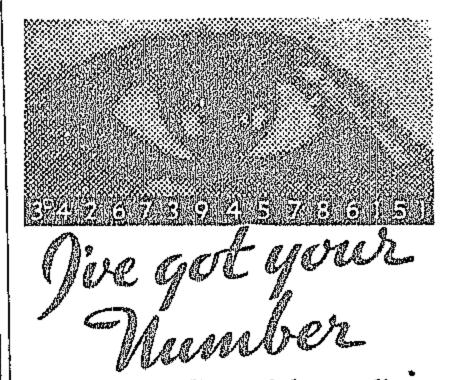
The presentation of the award was made last Wednesday at a banquet of the Western Society of Engineers at the Palmer House. Elmer T. Howson, chairman of the committee, made the presentation of a bronze tablet.

Mr. R. Modjeski has spent most of his life in Chicago, starting his engineering career as a draftsman in one of the large downtown offices.

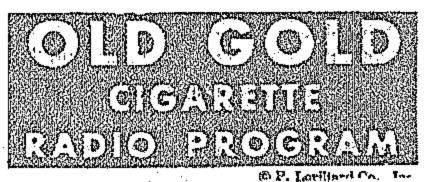
Among his accomplishments he won the John Fritz Medal. He is a member of the French Legion of Honor, and has two honorary degrees of Doctor of Engineering.

Ralph Budd, president of the Great Northern Railroad, was the guest speaker at the annual din-

> Ralph's Barber Shop 117 E. 35th Street Prompt, Courteous Service NO WAITING



On your radio tonight . . . listen to Lorna Fantin, famous numerologist. She'll tell you how names and dates affect success in business, love or marriage. A real radio thrill. WBBM and entire Columbia network at 8:15 P. M. central standard time



THE CAFETERIA BOULEVARD 31st Street and Mich. Ave. Dining and Dancing from 3 P. M. to Midnight

No Cover Charge



Welding

Diminishes the Din of Steel Construction to a Whisper

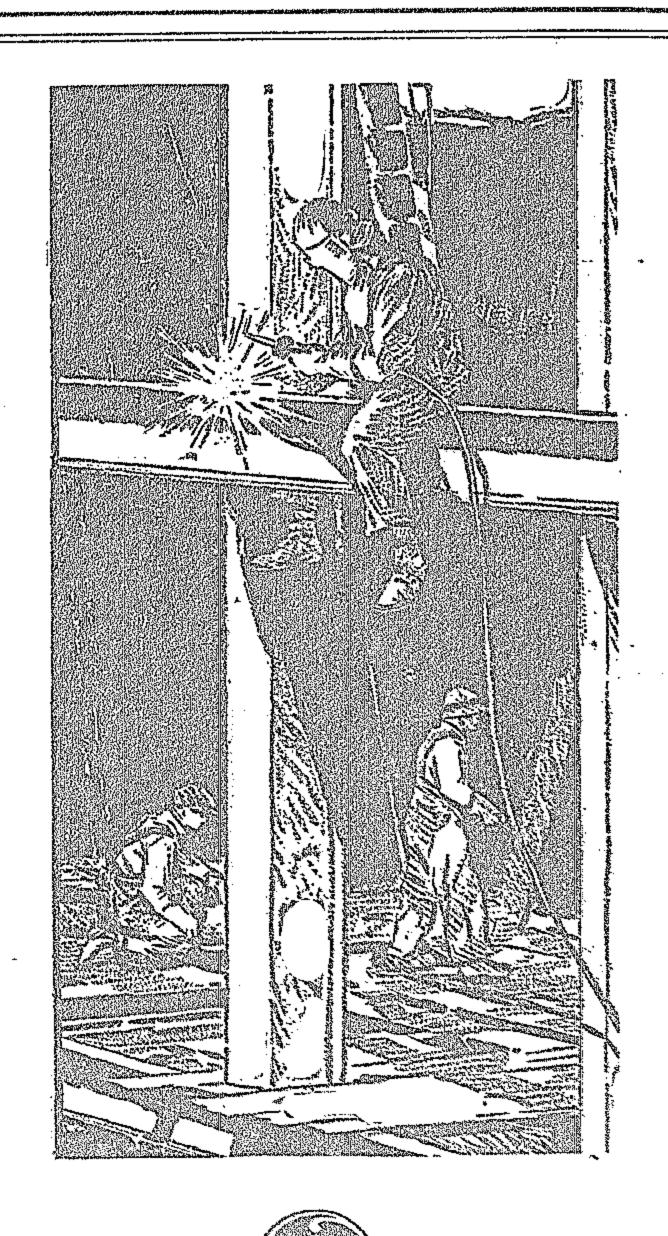
WN Boston—Dallas—Los Angeles—and I in other cities, lofty buildings are going up so quietly that the passerby all but stops and strains an ear for the old familiar clangor.

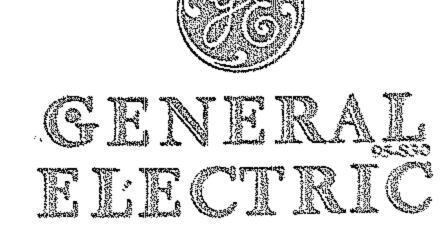
Silently, swiftly, rigidly, economically, arc welding knits steel with joints as strong as the metal itself.

Arc welding is being used more and more in the fabrication of buildings and machinery, the construction of pipe lines and tanks, and as a repair tool of universal utility.

Development of General Electric arc welding has largely been the work of collegetrained men. Others of the college men at General Electric are largely responsible for the high reputation won by hundreds of G-E products used in industry and in the home during the last thirty-seven years.

IT TOIN US IN THE GENERAL ELECTRIC PROGRAM, BROADCAST Every saturday evening on a nation-wide n.d.c. network.





Arx News

The Annual Traveling Exhibition of the Scarab Fraternity, which was at the Art Institute last week proved to be very interesting to the students. Scarab is the archiectural honorary fraternity. To become a member, one must have a good scholastic standing and be exceptionally good in architectural design. And if you could have seen these drawings you would not have doubted in the least that the boys all earned their membership. Armour's sketches were above the average with the rest, but it was in water color that it showed its superioriy. Schock, Schlagel, DeLong, Mell, Minx, Rosen and others were traveling one and it is too bad that Bestler, '33. This makes a total of dredge and drove it two miles remaining part of the evening was March 2, 1931, E. A. Wegner, '32, M. ana sand dunes on March 15 and all Armourites could not have seen

The business depression has been beneficial to the architects in that one of their profession has found a new and able method of spending spare time. George C. Nimmons of the nationally known architectural firm of Nimmons, Carr and Wright, Chicago, decided he'd take advantage of the building lull and do something different. And now he kills time by building models of Yankee Clippers. He has a workshop out in the country and he builds boats, to a scale of onetwelfth inch equals a foot from his own working drawings. The model of his first clipper is now in Mr. Nimmon's private office.

Lecture Given On Molecules

Several Armour students took advantage of an opportunity to attend a lecture on molecular structure illustrated with an array of models when they went to the A. C. S. meeting Friday evening, February 20.

The talk was presented by Dr. Donald H. Andrews of the Johns Hopkins University, who, with his facile manipulation of the models, was able to show vividly just what his theories were regarding the inner form of the molecule. Dr. Andrews explained that the models were not constructed from mere theory, but from careful observations of the various molecular properties: ionic, thermionic, and spectroscopic.

He stated that the knowledge of molecular structure has altered or confirmed many theories associated with the other sciences, and has opened up new fields for future investigation.

He ended by urging a greater interest in the subject on the part of the research chemist. The meeting adjourned to the group gatherings, which had many items to offer to their members.

Newly Invented Gas Is Ideal Refrigerant

A new cooling gas for refulgerators may make the tropics a better place for white men to live. In northern homes, it offers an ideal refrigerant for household ice boxes of the mechanical or electric type, say engineers.

All such refrigerators now on the market use some gas that can be compressed and liquefied to abstract heat from the refrigerator chambers. Several of the gases that have been in current use are poisonous or at least irritating should they escape from the pipe coils that imprison them.

The new gas, described before the American Chemical Society, is nonpoisonous. Quantities of it, demonstrations show, may be breathed without the slightest ill effects. It is also noninflammable. properties are the result of the peculiar chemical composition of the gas, which is a compound of three familiar elements—carbon, chlorine, and fluorine. Its technical name is "fluoro-chloro-methane."

Besides its household use, it may have other important applications because of its highly desirable engineering qualities. It may be used to cool sleeping rooms in the tropics, deep shafts in mines, and the cramped quarters of submarines.

EXAMINATIONS FOR REMOVAL OF CONDITIONS

Tuesday, Warch 3rd, 2:00 P. M.
Railway & Highway Locations (C. E. 5), Assist. Prof. GraftonC. E. Drafting Room
Graphics Problems (C. E. 14), Assist. Prof. Grafton
Organic Chemistry (Ch. E. 13), Prof. Freud
Organic Chemistry (Ch. E. 17), Prof. Freud
Organic Chemistry (Ch. E. 20), Prof. Freud
Physical Chemistry (Ch. E. 36), Prof. Freud
Thursday, March 5th, 2:00 P. M.
•
Applied Mechanics (Mech. 5), Prof. Paul

Friday, March 6th, 2:00 P. M. ...Elect. Lect. Room Physics (Phys. 1 & 2), Prof. Wilcox.....

Wednesday Night

Tune in the Camel Mour

on N.B.C. Network

9.30 to 10.30 Eastern Time

8.30 to 9.30 . . . Central Time 7.30 to 8.30 . . . Mountain Time

6.30 to 7.30 . . . Pacific Time

Over Stations

WJZ, WBZA, WBZ, WHAM, KDKA, WJR,

WGAR, KYW. WLW, WRYA, WSJS, KWK, WJAX, WFLA, WIOD, WREN.

11.15 to 12.15 . . . Eastern Time

10.15 to 11.15 . . . Contral Time 9.15 to 10.15 . . Mountain Time

8.15 to 9.15 . . . Pacific Time

Woer Stations

WHAS, WSM, WSB, WMC, WAPI, WJDX, WSMB, KTHS, WTMJ, KSTP, WEBC, WKY, WBAP, KPRC, WOAI, KOA, KSL, KTAR, KGO, KECA, KFSD, KGW, KOMO, KHQ, KFAB.

Wednesday, March 11th, 2:30 P. IV.

in the subject at once so that private arrangements can be made.

alpha chi sigma pledge six pledges.

Alpha Chi Sigma takes pleasure knowingly built in 1804 when Oliver tended an Initiation Banquet at in announcing the pledging of Paul Evans put wheels on a steam the Chicago Beach Hotel where the under its own power.

FRATERNITY NOTES

TRIANGLE

March 1 witnessed eleven pledges being formally initiated into Triangle and at this time Armour Chapter announces the initiation of Vernon C. Alexander, '33, C. E.; William L. Bengtson, '32, M. E.; Judson F. Bonnell, '34, M. E.; Arthur M. Cohrs, '34, Ch. E.; Roy A. Ekroth, '34, Arch.; Stephen M. Lillis, '34, Ch. E.; William A. Molloy. '34, C. E.; George B. McBrady, '34, Ch. E.; John E. Schreiner, '34, C. E.; Eric H. Smith, '34, C. E.; Roy A. Young, '32, F. P. E.

Following initiation, the new 28. The first automobile was un-|brothers, alumni, and actives atspent informally with the telling of E., was initiated to active member- 16.

in behalf of the new actives.

The neophytes will be in charge of the Initiates' Dance that is to be at the Chapter house Saturday, March 14. Invitations have been extended to the other chapters.

DELTA TAU DELTA

Delta Tau Delta announces the pledging of Philip O. Schuster, '34,

The annual Delt Prom will be March 6 at the Bal Tabarin of Hotel Sherman.

M. R. Beal has returned to school following his attendance at the Western Division conference at Minneapolis on February 26, 27 and

stories. Roy Young gave an address, ship in Beta chapter of Beta Psi. E. W. Johnson, 33, M. E., was recently pledged.

PHI PI PHI

Gamma chapter wishes to announce the pledging of R. J. Pflum, '34, C. E.

An election of officers for the coming year took place February 17 and resulted in the following men taking offices: A. J. Mueller, president; H. F. Leichtenberg, vicepresident; C. R. Mitchell, treasurer; H. J. Cameron, secretary; S. A. Carlson, chaplain; and V. J. Novak, sentinel.

KAPPA DELTA TAU

Hell week is scheduled to begin on March 9 and will be followed by Following dinner on Monday, an informal initiation at the Indi-



for the best amowers to this questions

What significant change has recently been made in the wrapping of the Camil package containing 20 cigarettes and what are its advantages to the smoker?

First Frize, \$25,000

Second Prize, \$10,000 Third Prize, \$5,000 For the five mext best amswers. \$1,000 each **%500** cach For the five mext best amswers. For the 25 mext best amswers . \$100 each

Conditions Governing Contest:

- 'I Answers limited to 200 words.
- 2 Write on one side of the paper only.
- B No entries accepted that bear a postmark later than midnight, March 4, 1931.
- 4 Contest open to everybody except employes and executives of R. J. Reynolds Tobacco Company and their families.
- The case of ties, the full amount of award will be paid to each of the tying parties.
- 6 It is not necessary to buy a package of Camel cigarettes in order to compete. Any store that sells cigarettes will permit you to examine the Camel package containing 20 cigarettes.

All communications weret be addressed to Contest Editor— R. J. REYNOLDS TOBACCO COMPANY; Winston-Salem, N. C.

Judges

CHARLES DANA GIBSON Famous Illustrator and Publisher of "Life"

ROY W. HOWARD Chairman of the Board, Scripps Howard Newspapers

RAY LONG President, International Magazine Company, and Editor of "Cosmopolitan"

AND STAFF

Confest open only until MIDNIGHT, MARCH 4, 1931

(Winners will be announced as soon as possible after contest doses)

NAPERVILLE WINS TRIANGULAR MEET POINTS 47

Loyola Places Second, Winning 5 First Places

NELSON WINS HURDLES

Table of Points North Central47 1-3 Loyola45 1-3

North Central won the triangular track meet between Loyola, Armour, and North Central, last Friday night, scoring 471/3 points, at the new Naperville field house.

Loyola was second with 451/3 points, while Armour placed a poor third with 141/3 points. The lead seesawed back and forth after each event, until the final event, the 12lap relay. Stroebel of Loyola slipped and failed to finish the race. North Central took second place to win the meet by two points.

Armour Wins Relay

winning the 60-yard low hurdles | dent body should not misinterpret and tying for second place in the the significance of the scores. high jump. He also ran as anchor man on the 12-lap relay team, coming from behind on the last two laps to win the event for Armour by twenty yards. This is the first meet he has been in since the Interclass Meet as he has been ill with the mumps.

Hinders Wins Three Firsts

Hinders of North Central was high point man of the meet with 15 points, winning first place in the shot put, the pole vault, and the running broad jump.

Nineteen Armour men made the trip to Naperville. About sixty athletes competed in the meet from the three colleges, and about four hundred spectators, including coeds, were present.

James, C. Jens, and Oberbeck, placed third in the two mile, shot put, and high hurdles respectively.

Walsh Jumps Six Feet

Walsh of Loyola made the best performance of the meet. After noon. winning the high jump at 5 feet, 8 inches, he made successive jumps for exhibition until he finally cleared the bar at six feet.

Summaries

60-yard dash—1st heat, won by Siebert, (N. C.); second, Francisco, (L); third, Helmick, (A). Time:

Chapman, (L); second, Baumgart- | Sheridan road and Devon st. ner, (N. C.); third, A. Jens (A). This is the first time that Loyola Time: 6.4.

C.); third, Francisco, (L). Time: on the Loyola squad.

Heally, (L). Time: 4:39.

(N. C.); second, Baumgartner, (N. cessful. Not once has the relay C.); third, Mann, (L). Time: 54.3. | team, composed of Byanskas, Lebberman, (L); second, Schafer, Knox been beaten. This is quite a (N. C.); third, Oberbeck, (A). Time: | record remembering that in the 8.2.

(N. C.); second, Murtaugh, (L); up. third, James, (A). Time: 10:53.

Compton, (N. C.). Time: 2:7.8.

feet, 1-2 inch.

Pole vault—Won by Hinders, (N. | urday at Bloomington, Ill. C.); St. Clair, (L) and Frank, N. C.) tied for second. Height: 11 feet, 0 inches.

Running broad jump—Won by Hinders, (N. C.); second, Francisco, (L); third, Crank, (L). Distance: 20 feet, 9 1-4 inches.

High jump—Won by Walsh, (L); Nelson, (A), Heinhorst, (N. C.). and Canterbury, (L), tied for second. Height: 5 feet, 8 inches.

12 lap relay—Won by Armour, (H. L. Fox, Hirsch, Helmick, Nelson); second, North Central. Time: 4:15.4.

Boxers To Fight At Bloomington

Armour Tech's hardy band of ring warriors will pack up their paraphernalia next Saturday and again take the road to tackle out of town glove vendors, their prey this time being the Bloomington Y. M. C. A. state champions. It was previously announced that this meet was cancelled because injuries had raised havoc with the Tech squad, but in view of the fact that considerable expenses had been incurred in preparation for the meet, it was deemed advisable in fairness to the down-staters, to go through with the fights.

Judges Show Partiality

Although the Tech leather-pushers have not chalked up a victory in three encounters with rival aggregations, the individual accomplishments have been very encouraging and commendable. Furthermore, it must be remembered that all these fights were held in hostile rings, where, as has been stated before, partiality, on the part of the judges, is prevalent. On one occasion an Armour fighter floored his opponent three times the infielders, must cooperate to and yet was not awarded the deci- some extent and the outfield this Nelson starred for Armour by sion. For these reasons the stu-

Eight Men to Make Trip

The victorious maneuvers of the Bloomington team are well known, but an upset may result when they tangle with the hard hitting Tech squad. Practically all of Armour's representatives will be in the middle-weight class, with only Montesano, fly-weight and Sandstrom, bantam-weight, representing the lighter classes. The middleweights are Capt. Ustryski, Mago, a new comer, who, fighting his first miller.

Union station at 3 o'clock Saturday | Ogden Field. afternoon and will arrive at Bloomington at about 6:30. The fights will be fought at 8:30, after which the pugs will either explore the town or lodge at the hotel for the night, leaving Bloomington Sunday

Tech Tankmen Meet Loyola U

The swimming team will meet Loyola University tomorrow after-60-yard dash-2nd heat, won by noon at 4 P. M. at the Loyola pool,

has had a swimming team for 60-yard dash-Finals, won by nine years and it is rumored that Chapman, (L); second, Siebert, (N. a good many star swimmers are

The swimming season is rapidly One mile run—Won by O'Neill, drawing to a close. In a few weeks (L); second, Lemke, (N. C.); third, the remaining meets will probably be a thing of the past.

440-yard dash-Won by Siebert, The season has been fairly suc-60-yard high hurdles-Won by Giovan, Carlstrom and Captain Crane meet a new record of 1:22 Two-mile run-Won by Hornbeck, for the 160 yard event was hung

Jack Cavanaugh has added more 60-yard low hurdles—Finals, won fame to his swimming name this by Nelson, (A); second, Francisco, season by beating the Culver boys (L); third, Lebberman, (L). Time: in the century breast-stroke event in 1:15.

880-yard run-Won by O'Neill, Due to the wonderful work of (L); second, Heally, (L); third, manager Davidson, meets with two new schools have been secured. Shot put—Won by Hinders, (N. These schools are Loyola, whom C.); second, Schaffer, (N. C.); Armour will meet tomorrow at 4 third, C. Jens, (A). Distance: 40 P. M., and Illinois Wesleyan College, which Armour met last Sat-

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KRAFT WORKING TO DEVELOP GOOD BATTERS FOR 1931

Departure of Veterans Cripples Team, Says Coach

CANDIDATES CALLED

the ball swiftly with a minimum ful season is in store. amount of errors. In order to accomplish this feat, a great deal of practice is needed, one season being too short a period of time.

Relief Battery Needed

The outfielders, although they do not work together as much as year will be entirely new. A new catcher must also be broken in for the regular catcher is the only one left from last year.

A number of new bats have been purchased. They will probably see action by the end of March for the batteries will have then had about a month of practice, being prepared to give the boys some batting practice.

Fourteen Games Scheduled

Fourteen games have been signed up for the season with the possible addition of another one before the schedule will be complete. A fight at Culver, showed that he glance at the roster of the teams could give and take in good meas- to be played will show that the ure, Rush, Campione, and Heck- team will have no easy sledding. The opening game of the season The team will embark at the will be played with Morton at

Winning Tennis Team Is Forecast for 1931

Organization of Armour's 1931 tennis team is expected to be completed within the next two weeks. according to Manager Krause. Although this years' team will not bring a luminary of Jennings caliber to the fore, the prospects for a winning aggregation are looked upon from a optimistic viewpoint.

Schirmer, last year's regulars in the Other indoor sports, track, swimsport, warrant a pair of able and ming and boxing are attracting the The regulars who will be back to well qualified men about whom this interested eye with baseball as the bolster up the baseball team this year's team will be built. The adseason are: Stehno, pitcher; Link, dition of several other participants light. catcher; Robin, first base; and in the 1930 season, namely Tim-Mago at third base. Mago will mermans, Lind, Hendricks and probably join the pitching staff, Richter together with one or two to conclude rather uninteresting third base being left for a new freshman candidates, serves to seasons while the indoor track oratories. Although the Institute man to fill. Coach Krafft believes | brighten the prospects. If these team is unsuccessfully defending does not advocate out of town conthat the lack of a veteran infield men show only a slight improve-the championship record of last tests, a large number are permitwill greatly cripple the '31 team ment in their playing ability, it is year. However, with the Illinois ted. The infield must be able to handle quite safe to predict that a success-Relays, Bankers Relays, and Ar-

> The schedule for the coming season is not fully completed. Several good matches are already on the list while others now tentative are negotiations.

Tentative Baseball Schedule

April 10-Morton at Armour. April 14—Chicago at Chicago.

April 20—Lake Forest at Armour. April 24—Western State Normal at Armour.

May 2- North Central at Naper-

May 5—Wheaton at Armour. May 8—Michigan State Normal

at Ypsilanti. May 9-Western State Normal at

Kalamazoo. May 13—Wheaton at Wheaton. May 15—Michigan State Normal at Armour.

May 20-DeKalb at Armour. May 23—DeKalb at DeKalb. May 28—Lake Forest at Lake

Constitution Constitution F& SHORTS

Calcium Light

A.H.J.

Basketball must now recline into The return of Captain Eddy and the background for another year. new comer into the athletic lime-

Relays and Invitational

Swimming and boxing are about mour Invitational meets the team has time to round into shape.

Penn Invitation to Tech

to Armour to compete in the an- to be taken for the 1931 Cycle. expected to be added officially to nual Pennsylvania Relay Carnival. Won't it be nice to show little Wilthe schedule as soon as Manager Should Tech enter a team, compe- lie many years from now just how Krause is able to complete his tition would be met from the fol- papa looked in his athletic regalia lowing schools: Northeastern Col- when he played for dear old Tech. lege, Brooklyn Polytech, Colorado School of Mines, Stevens Institute, Case and Rose Polytech.

A Sure Winner?

shot-put by a wide margin. The son.

LATE SPORTS

Armour's swimming team defeated Illinois Wesleyan College 49-27 last Saturday night at Bloom-

ington. Tech won seven out of a possible eight first places. The 160-yard relay team composed of Byanskas, Glovan, Carlstrom and Knox, made a new school record of 1:21.

winning distance was 47 feet and |Paul was approaching 48 feet at that time.

Far Away From Home

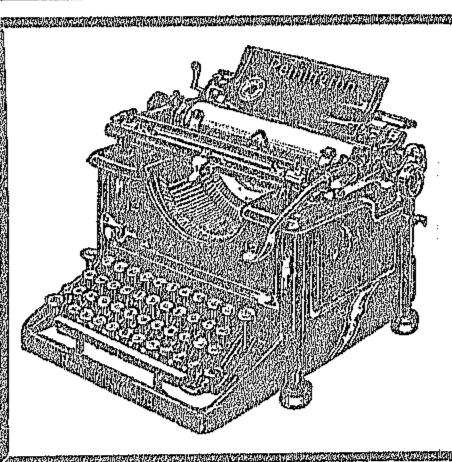
Out of town meets cause considerable loss of time to athletic teams. both in traveling and in class work. These usually mean the loss of at least one day in school and the consequent missing of classes and lab-

Pretty Now

On Friday afternoon members of the basketball, boxing, golf and swimming teams will smile for the An invitation has been extended birdie. Pictures of the athletes are

Useful Implements

About this time each year the baseball squad journeys to the bat factory of A. G. Spaulding & Co., Had Don Paul entered this meet and select the style bats that are April 17-North Central at Ar-last year he would have won the to be used during the coming sea-

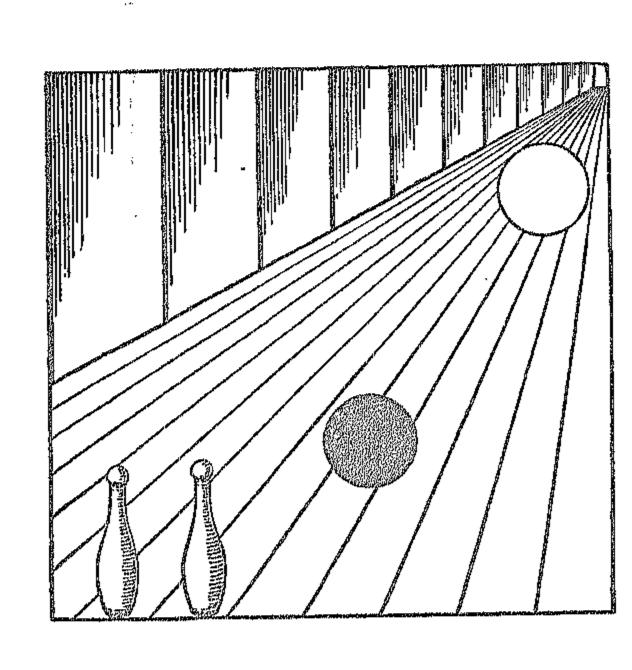


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YOUR TASTE TENS THE Truth! BETTER TASTE

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