



# Armour Tech News



Vol. V. No. 4

Armour Institute of Technology, Chicago, Illinois

Tuesday, March 4, 1930

## SENIOR PICTURES DUE AT THE STUDIO BEFORE MARCH 7

### Sub-Editors to Handle All Snapshots Made By Students

### HEATH GIVES WARNING

At the present time the number of picture proofs returned to Mabel Sykes studios is but one-third of the entire senior class. Although March first had been tentatively set as the date, when all pictures must have been taken it is necessary that this time be extended until March 7th.

P. E. Heath, editor-in-chief of the '30 Cycle states that it is imperative that these proofs be returned immediately. He also states that work on the senior section of the book must remain at a standstill until all these pictures are returned to the Mabel Sykes studios.

Any snapshots which are to be considered for either the feature or the fraternity section must be turned in to the respective department editors as soon as possible. Fraternities and clubs are also urged to provide snapshots for their pages. Students who have pictures of school activities such as interclass sports, Circus day or Armour athletics should turn these in to any member of the staff. Those which are not used in the book will be returned if they are properly labeled with the contributor's name.

## McCormack Talks at Notre Dame U.

Professor Harry McCormack, head of the Chemical Department, delivered a speech on "Why a Chemical Engineer?" before two gatherings Wednesday, February 19, at South Bend, Indiana. Professor McCormack spoke to the Chemical Engineering Department at Notre Dame Wednesday afternoon, then to the local branch of the American Chemical Society Wednesday evening.

The speech "Why a Chemical Engineer?" rather dealt with the position of the chemical engineer, pointing out his place in the chemical and industrial world and explaining how his services will be of increasing value in the future. It also told how the work of the chemical engineer and the chemist should go along side by side but should not interfere with the work of one another.

"There are two types of training received from the colleges," he said, "one tries to make both a chemist and chemical engineer, and succeeds in making a good one of neither; the other type trains the students for either one branch or the other."

The chemical engineer has received many definitions from different chemical societies, but Professor McCormack defined the chemical engineer as "a man primarily connected with the operating end of the chemical industry. He must have, however, very intimate relations both with the analytical chemist and the research chemist."

Professor McCormack closed his speech by explaining why he chose to speak to chemists on chemical engineering. He said that he wished to clear up the slight misunderstanding which seemed to exist between the chemical engineer and the chemist and to point out their places in the industrial picture, as he saw them.

Recently we learned of the illness of Miss Rawls, assistant librarian of the Ryerson and Burnham Libraries and we wish to extend our sympathy to her.

### NOTICE

There are still a number of students who have failed to turn in their program cards to the Dean's Office. Please attend to this immediately.

## Electricals Plan Regular Meetings

The Armour Branch of the A. I. E. E. held a business meeting last Friday, February 28, in the Physics Lecture Room.

An expression of appreciation for the work of George Baker and his program committee was voiced by the organization as the first part of the business. The committee then presented a plan which advocated the promotion of student lectures at meetings. The suggestion met with approval, so a program of this nature is to be arranged.

The chairman of the entertainment committee, Bob Larson, then gave an announcement concerning the A. I. E. E. spring smoker. He said that it will be held on March 12, at a place which will be announced later.

An invitation to participate in a joint meeting has recently been received from the Lewis Branch of the A. I. E. E., and was read at the meeting. The idea was discussed and the invitation accepted, the date for the joint meeting being left for arrangement in the near future.

Lately many have been advocating a regular meeting hour. Accordingly John Papanony made a motion that the Armour Branch of the A. I. E. E. should petition the Deans' Office to grant the students an open hour each week beginning next semester in order that the various engineering societies might be attended. The motion was seconded and carried.

## Sophomore Dance Well Attended

More than two hundred couples attended the Sophomore Informal, which was held last Friday night in the Gold Room of the Congress hotel with Eri Brammel's Kentucky Colonels supplying the music. The attractive surroundings and the good music of the orchestra added greatly to the evening's entertainment.

The invited guests were President and Mrs. Howard M. Raymond, Dean and Mrs. Claude I. Palmer, Professor and Mrs. Joseph B. Finnegan, Professor and Mrs. Charles P. Holmes, Professor and Mrs. Eldon C. Grafton, and Mr. and Mrs. Howard W. Hendricks.

## Two Thousand Dollar Prize for Architects

The Ludowici-Celadon Company announce the Third Competition for the A. W. Brown Traveling Scholarship. The competition will be held under the direction of a committee of the American Institute of Architects. The programs will be mailed to the applicants on or about March 15, and will have to be returned about April 14.

This scholarship is the gift of the company as a memorial to A. W. Brown, a former president of the company. The prize is \$2,000 for the winner to be used to defray the expenses of a year's travel and study in Europe. The second award is \$250; the third award, \$150; and \$100 to the fourth place winner.

The only requirement is that the candidates shall complete two ensembles consisting of measured drawings of buildings on which burnt clay has been used as roofing material.

## TELEPHONE MEN WILL INTERVIEW ARMOUR SENIORS

As a result of arrangements made with Professor E. H. Freeman, representatives of the Bell System will visit Armour Institute March 14 to 17, inclusive, to interview seniors with regard to employment after graduation.

The Bell System will be represented by employment representatives from the Bell Telephone Laboratories, the Western Electric Company, the American Telephone and Telegraph Company, Long Lines Department and the Illinois Bell Telephone Company. They will be interested in the interviewing of seniors from the electrical, mechanical, civil and chemical engineering departments.

A recent graduate of Armour will be on the campus two days prior to the arrival of the Bell System delegation for the purpose of arranging the appointments for the interviews.

## Seniors to Take Aero Examination

The Armour seniors who have completed the aeronautics option will take their physical examinations at the Medical Headquarters of the Great Lakes Naval Training Station at nine o'clock Monday morning, March 10. Those not taken care of during the first day will be examined on following days, the procedure continuing every day, except Saturday and Sunday, until all are finished.

About thirty Armour men are expected to take the examination of whom ten to fifteen should pass judging by past records.

After the examinations are completed a group of officers from Great Lakes will come to Armour to interview the successful applicants. Besides the physical requirements, it is also necessary that the applicant possess that quality of personality which indicates that he is "good officer material."

Those men who are accepted and who are able to take advantage of the opportunity will spend three months at Great Lakes and then will go to the training station at Pensacola, Florida, for a nine-months course in flying. After that they will spend a year in actual aviation work with the fleet.

## Ventilating Engineers Hear Talk by Davies

Wednesday evening, Feb. 26, Professor Davies spoke at a special dinner held at the Bismarck Hotel, before the Ventilation Contractor's Employment Association of Chicago and their guests, members of the Chicago Association of Consulting Engineers. His talk was on the measurement of flow of air through registers and grills. Professor Davies is engaged in research work on this subject for the Contractors' Association.

## Inter-Fraternity Council To Meet Wed.

The Inter-Fraternity Council will hold a meeting Wednesday, March 5, at 2:00 p. m., in the Tau Beta Pi rooms, according to an announcement by Joseph Ransel, president of the council.

## Refrigeration Expert At A. S. M. E. Meeting

Mr. E. W. Gallenkamp of the York Ice Machinery Company, was the speaker at a meeting of the Armour branch of the American Society of Mechanical Engineers held last Friday. Mr. Gallenkamp's talk dealt with the methods of refrigeration and the economies concerning the refrigeration field.

## Condition Exams Held This Week

The examinations for the removal of conditions for last semester started yesterday morning. Any student failing to pass an examination will be required to repeat the subject when it is given again. The examinations in mathematics will be given in the regular classes.

The following is a complete schedule for the week's examinations as issued by Deans' Office:

Monday, March 3, 2:00 p. m.  
Thermodynamics (Junior E. E.), Assoc. Prof. Nachman, A. Mech. Hall.

Senior Steel Construction (Arch.) Assist. Prof. Ensz, Drftg. Room, Chapin Hall.

Structural Design (F. P. E.), Assist. Prof. Ensz, Drftg. Room, Chapin Hall.

Tuesday, March 4, 2:30 p. m.  
Organic Chemistry, Prof. Freud, Room C, Main Bldg.

Wednesday, March 5, 2:00 p. m.  
Physics I and II, Prof. Wilcox, Physics Lect. Room.

Thursday, March 6, 2:00 p. m.  
Business Law, Dean Penn, Room H, Main Bldg.

Graphics Problems, Assist. Prof. Grafton, Drftg. Room, Mission.

Railway Location, Assist. Prof. Grafton, Drftg. Room, Mission.

Friday, March 7, 2:00 p. m.  
Mechanics of Materials and Graphics, Prof. Paul, Room B, Chapin Hall.

Engineering Mechanics I and II, Prof. Paul, Room B, Chapin Hall.

Applied Mechanics (Arch.), Prof. Paul, Room B, Chapin Hall.

Wednesday, March 12, 3:00 p. m.  
Precision of Measurements, Assoc. Prof. Doubt, A, Chapin Hall.

## Honoraries Hold Council Meeting

The Inter-Honorary Fraternity Council held its first meeting of the semester last Tuesday. The meeting was held mainly to determine the best manner in which to unify the various honorary fraternities. As in previous years, this will be done by having social gatherings and by working on subjects of mutual interest. The members of the council discussed the ratification of the Constitution but decided to carry the final ruling over to the next meeting. Another point of interest was the drawing up of tentative plans for a dance and a banquet. A. C. Gunther '30, President of the council, predicts that the next semester will see a more closely knit organization among the honorary fraternities at Armour.

The Third Project of the Class A work has been returned from New York and is now on exhibition at the Art Institute. The problem was the designing of an office building. E. V. Goldsborough, '30, was awarded a Second Medal on his work.

### CALENDAR

March 3-3  
Examinations for Removal of Conditions.

Wednesday, March 5  
2:00 P.M. Inter - Fraternity council meeting in Tau Beta Pi rooms.  
8:00 P.M. Swimming meet with Crane Junior College at University of Chicago.

Thursday, March 6  
7:30 P.M. Boxing meet with West Side Y.M.C.A. at West Side Y.M.C.A.

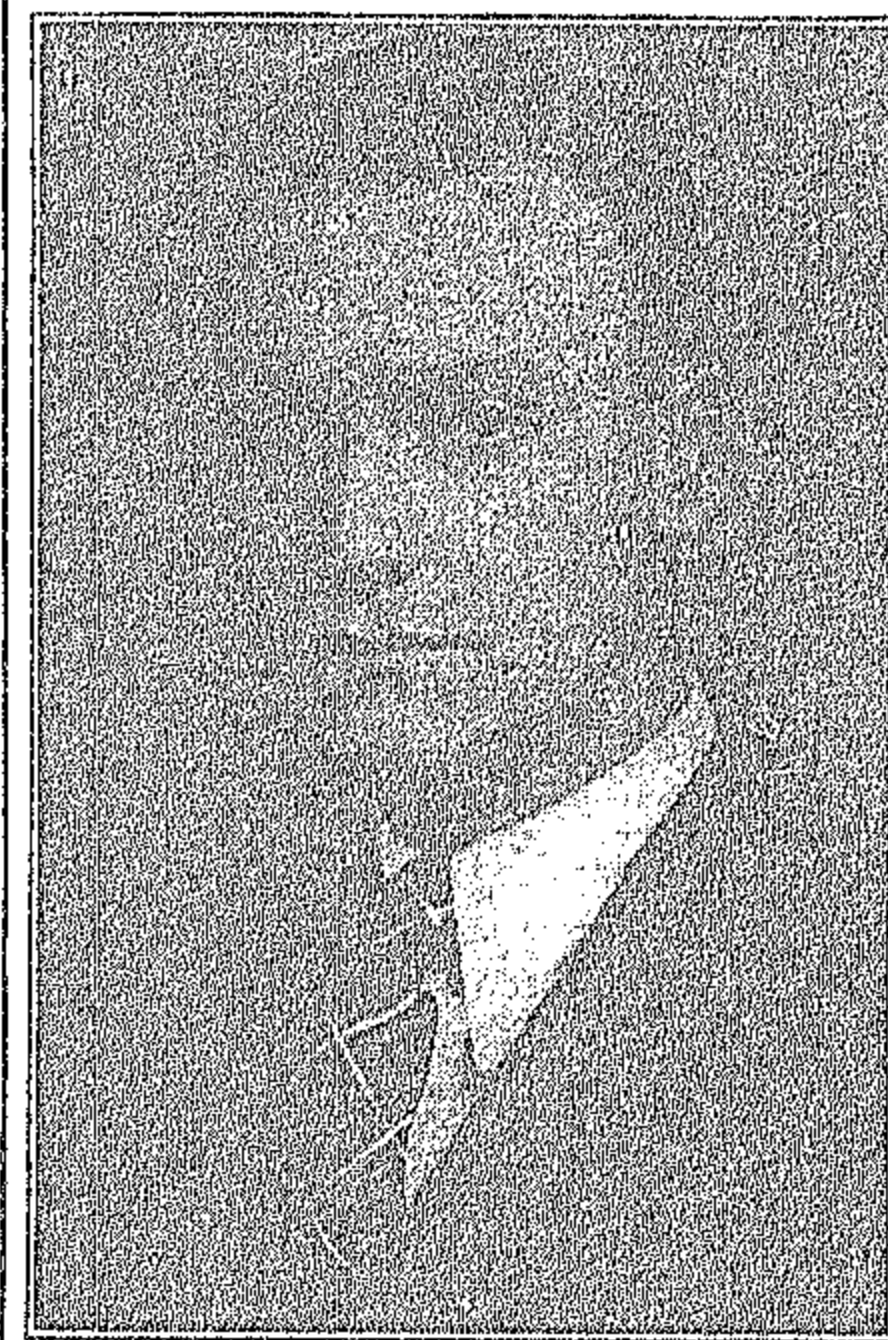
Saturday, March 8  
3:00 P.M. Track meet with Crane Junior College at Bartlett Gym.  
5:00 P.M. Triangular track meet at Bartlett Gym.

## COMMITTEE FORMS PLANS FOR ANNUAL JUNIOR WEEK SCHEDULED FOR MAY 12-17

Junior Formal on May 16, Circus Day, Baseball Games, and Track Meets  
On Program

DANCE IS ONLY FORMAL EVENT OF YEAR

### FRANK JAMES



Frank James, Junior Marshal, has picked the following men from the Class of '31 to act as assistant marshals in managing Junior Week: Arthur H. Jens, Francis S. Austin, Walter E. Schirmer, and Louis L. Hensen.

These men have already held a meeting and have decided to hold Junior Week during the six days ending May 17. This automatically sets the date of the Junior Formal as May 16, and Circus Day for Saturday, May 17. The social committee, of which B. G. McLaughlin is chairman, is co-operating with the marshals in an effort to make this year's Junior Week the biggest and best ever put over.

Two baseball games will take place during this week, and although the tennis schedule is not yet made up, it is expected that several matches will be held. Two track meets will also take place during the eventful six days.

According to B. G. McLaughlin, plans for the Junior Formal are rapidly being completed. The affair, which is the only formal dance of the year, is to be a Dinner-Dance with the limit on the number of couples set at one hundred.

## Junior Electricals Visit Goodman Co.

The Junior Electricals spent the afternoon of Thursday, February 27 on an inspection trip conducted by Prof. Moreton and four guides through the armature winding, field winding, and the impregnating departments of the Goodman Manufacturing Company at 48th and Halsted Streets. This company is primarily a manufacturer of mining equipment but because of the unusual requirements, finds it necessary to build its own motors.

The class met at 1:30 p. m. in front of the main building of the company one hundred per cent strong. It was then divided into four groups and each group taken through by a guide. The processes of winding, taping, forming, impregnating, and compressing the armature coils were demonstrated. Plain linen and sometimes empire cloth is used for taping the coils. They are impregnated by dipping into a hot coaltar compound after having been thoroughly dried. The pressing process follows and is done with the aid of steam pressure. The field coils are made in the same manner except that the forming process is eliminated.

The method of building up a commutator of its segments and insulating material was thoroughly explained and followed by an actual operation showing how the finished article is made.

The punch press operation of blanking out the core laminations next consumed the interest of the class. These laminations when stacked up on a shaft, form the armature core. The commutator is placed on one end of the shaft. The armature winder then gets his core. The process of winding the armature, i.e., the placing of the coils was perhaps the greatest attraction.

There were no casualties on the trip, although several members of the party became temporarily sick when told that the nurse in attendance was attractive.

### CORRECTION

In the introduction to the alumni letter published last week, the author's name was incorrectly stated as H. S. Wellington. The letter was from H. S. Ellington, '08, a graduate of the civil engineering department.

## Juniors to Edit Next Engineer

The next issue of the Armour Engineer is to be entirely a junior product from a mechanical standpoint. The feature articles as before are to be selected from material submitted by students and faculty.

Previous to this issue the selection of material and make-up of the magazine has been conducted by the executive heads of the staff. The third issue of the year is promised for March 20, according to U. D. Buchling, editor-in-chief of the Engineer.

## Many Features in New Illumination Course

Professor Doubt announces that the new class in "Light" will meet Thursday at 11:30 in Science Hall. This is a lecture course and comprises a very practical study of the production of light and illumination. In addition, laboratory work will be done by those students able to devote the necessary time. The course is open only to Juniors and Seniors, the prerequisites being credits in Physics and Physics laboratory. To date, about fifteen men have registered, but more are expected to do so shortly.

Professor Doubt says that a detailed practical study of vacuum, neon and special radio tubes and their commercial applications in modern times is planned. This new topic should be particularly interesting to the electricals or anyone interested in radio.

## Kapke '28, To Speak On Senior Positions

E. B. Kapke, M.E., '28, will speak to seniors at 11:30 this morning in Science Hall as the representative of the Harnischfeger Corporation of Milwaukee, Wisconsin. The company builds material handling equipment and wants to get in touch with men interested particularly in sales work.

# Armour Tech News

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Exchanges.....A. J. Aukstaitis, '31

Vol. V MARCH 4, 1930 No. 4

## BOXING

Armour's first boxing exhibition held last Tuesday in our local gym definitely established this branch of sport as the most popular of Tech's athletic activities. Over one hundred and fifty spectators were on hand at this time, about four times the number of rooters who were in attendance at any of the basketball games this year.

In the past the boxing team has labored against great odds, travelling to foreign rings for matches, and having decisions rendered by hostile judges. Add to this the difficulty of battling before a crowd, sometimes numbering over three hundred, of rooters for the opponents and you will have some idea of the odds our boys have been up against.

In spite of these difficulties, a squad has been developed which was able to defeat the Y. M. C. A. State Champions last Tuesday, by a 3 to 2 score. The last time our squad met these men out at South Chicago, Tech lost every bout. This is surely definite proof of the advantages which are to be had by fighting in our own gym.

Let's have more of these matches at Armour, and give our team a chance to develop further the talents which the men have shown to be present!

## THE WEATHER

It seems to be a certainty that when all other forms of conversation languish, the weather is a flourishing topic. This past week the market for weather discussion has risen rapidly, and no one, including the official forecaster seems to be able to answer the riddle of whether or not spring is here.

It might be possible for learned meteorologists to sit back and chuckle at the antics of the weather, but these vagrant actions of Ol' Man Nature are going to bring gray hairs to our heads. The eternal question is here, and with these days of spring and winter intermingled, one hesitates to take the fatal step; shall we wear a topcoat or an overcoat.

Furthermore, this weather is raising havoc with the joys of the week end. These warm Tuesdays might well inspire one to make a date for the ensuing week-end; no sooner is the date made than an arctic wind and torrents of rain serve to dampen one's spirits. As yet, President Hoover has not appointed a committee to investigate this, but various rumors are abroad.

Men give me credit for some genius. All the genius I have lies in this: When I have a subject in hand, I study it profoundly. Day and night it is before me. My mind becomes pervaded with it. Then the effort which I have made is what people are pleased to call the fruit of genius. It is the fruit of labor and thought.—Alexander Hamilton.

## “THE SLIPSTICK”

Cleave to “The Slipstick”; let the Slipstick fly where it may.

### And Toss the Ashes to the Winds, Too

Lives of great men all remind us  
As their pages o'er we turn,  
That de're apt to leave behind us  
Letters that we ought to burn.  
D. C.

If this isn't the acme of something or other we don't know what is—A couple of lads BORROWED our paper last week and then went on to criticize the contents. Of course, this column came in for the most of it, but the only comment we can offer is that they don't appreciate good humor.

And the cry of the maidens of the Nile is:—“Egypt me.”  
Micro Mike

### A Losing Race

Dad: “You're behind with your studies, son.”  
Son: “Well, how could I pursue them if I weren't?”

A knapsack isn't a night gown. J. M.

### Surely Not—Six Months

Judge: “Prisoner, the jury finds you guilty.”  
Prisoner: “That's all right, judge, I know you're too intelligent to be influenced by what they say.”  
Walt

Only the hen can make money by laying around.  
Joe

“Has your brother come home from college yet?”  
“I guess so, or else the car's been stolen.”

You perhaps read that very excellent and timely editorial by our very good friend Al. (he ran this column last year), concerning humor. After we saw it ourselves we thought, well, that contribution box, (there is one on the main floor), will surely be full tomorrow. Then came the dawn (it always does in the squawkies) and the box contained—one contribution. Success. Congratulations, etc., etc.

### Or Just Give Him the Air

The girl who goes for a ride with a “flat tire” should not forget to take a little “jack” along. R. S. F.

Johnny: “What was your sister angry with you about?”  
Willie: “She sent me to the drug store to get some cold cream, and I got a cone.”  
Dick

No, dear children, a boomerang was not invented by a Scotchman.

### Or a Doorknob

Joe: “Where did you get that black eye?”  
Blow: “That's a birth mark.”  
Joe: “A birth mark? How come?”  
Blow: “Sure, I got in the wrong berth.”  
Charley E.

## QUIZ

Ques: A fellow went into a restaurant and ordered a bowl of soup, apple pie and coffee. How did the waitress know he was a sailor?  
Ans: Next Week. Ted

We might as well make a contest out of this. The best answer for the above will receive an indicator glass for a slide rule (This is chipped only in the corners). Second prize, a well worn sheet of carbon paper. Third, one well erased data sheet (only two holes in it). Get busy now.

“What's the matter over there?”  
“A Boy Scout did so many good turns he got dizzy.”  
Chester

Many a mathematician's daughter has problems of her own.

### Light

Heard in Soph E. E.  
“Define a watt.”  
“A watt is an inquisitive pronoun.”  
B. B.

### A Lifetime Pen

“This pen leaks,” said the convict, as the rain came in through the roof.  
Micro Mike

### No Taet

Playing “It Ain't Gonna Rain No More,” at the Umbrella Manufacturers' Convention.

## OR JOIN THE GLEE CLUB

1): “Where did you get that voice?”  
2): “That's a gift.”  
1): “You better send it back.”  
Charley E.

Joe inquires if a chap takes a correspondence school course in boxing, does he pick a fight with the post-man for his homework.

Idle Pastime—Guessing the insides of chocolates.

Poor Golfer: “Well, how do you like my game?”  
Caddie: “I suppose it's all right, but I still prefer golf.”

All good things must come to an end. K. K.

## Professor Arthur Howe Carpenter

(A Biographical Sketch)  
BY P. EMIL SEIDELMAN

Arthur Howe Carpenter, Associate Professor of Metallurgy, was born at Georgetown, Colorado, October 19, 1877, where his father, the late Dr. Franklin R. Carpenter, was a mining and metallurgical engineer. While still a lad, his father became President of the South Dakota School of Mines at Rapid City and it was there he grew up and had his early schooling. In 1894 he entered Ohio University and from this university obtained his Master's degree in chemistry. He spent two years of his college life at Northwestern University, Evanston, where he was a member of the Delta Tau Delta fraternity. He returned to the Black Hills and was chemist and assistant superintendent of the Deadwood & Delaware Smelting Company. In 1901 he and his father formed a firm of Consulting Mining Engineers, in Denver, Colorado, dissolved ten years later by Dr. Carpenter's death. During these years he had wide experience as a mining and geological expert. This practice covered all of the western mining states. He was with the American Smelting & Refining Company as metallurgist three years and spent seven years in Pittsburgh, Pa., and in Colorado as research metallurgist for the American Vanadium Company, coming to Armour in 1920.

June 5, 1901 he married Margaret Lucile Evans, daughter of David J. Evans, who was for almost 50 years Professor of Latin at Ohio University. There are three children, Franklin D., an alumnus of the

University of Chicago and now a newspaper representative of Small-Spencer & Levings of Chicago, Mrs. Dale M. Dutton, an alumna of Ohio University, of La Grange, and Mary Elizabeth, a student in the La Grange high school.

Besides Delta Tau Delta, Prof. Carpenter is a member of American Institute of Mining & Metallurgical Engineers, American Chemical Society, American Association for the Advancement of Science, Society for the Promotion of Engineering Education, Pi Gamma Mu, Sons of the American Revolution and American Association of Variable Star Observers.

His hobby is astronomy. He discovered a comet at fifteen years of age, and has made two reflecting telescopes, one of them 10 inches in diameter. He proved the presence of platinum in certain meteorites—especially the one at Meteor Crater in Arizona.

## Freshman Receives Peru Scholarship

Joseph A. Luzquinos, M.E., '33, is the first of a number of students to be sent to Armour from the “Escuela de Artes y Oficios,” at Chiclayo, in the department of Lambayeque, in Peru. As its name indicates, the school is what would be called a technical high school in the United States and intends to send its most deserving student to Armour every four years, with all expenses paid.

Luzquinos won the first award and came to the United States a year ago, arriving in February, 1929, to learn English.

Chiclayo is a town of about 25,000 population and is located on the coast of Peru. The “Escuela de Artes y Oficios” is the town's high school, supported by the government, and has about six hundred students.

## Inquiring Reporter

Question:—Would you like to see more boxing matches presented at Armour?

W. H. Larson, Arch. '33—Armour has some scrappy fighters but we need more. The difficulty in seeing the match lies in the place of presentation. The match at the Belmont Y and the one at the South Chicago Y were so distant as to make them difficult to get to. Let's have more matches at Armour.

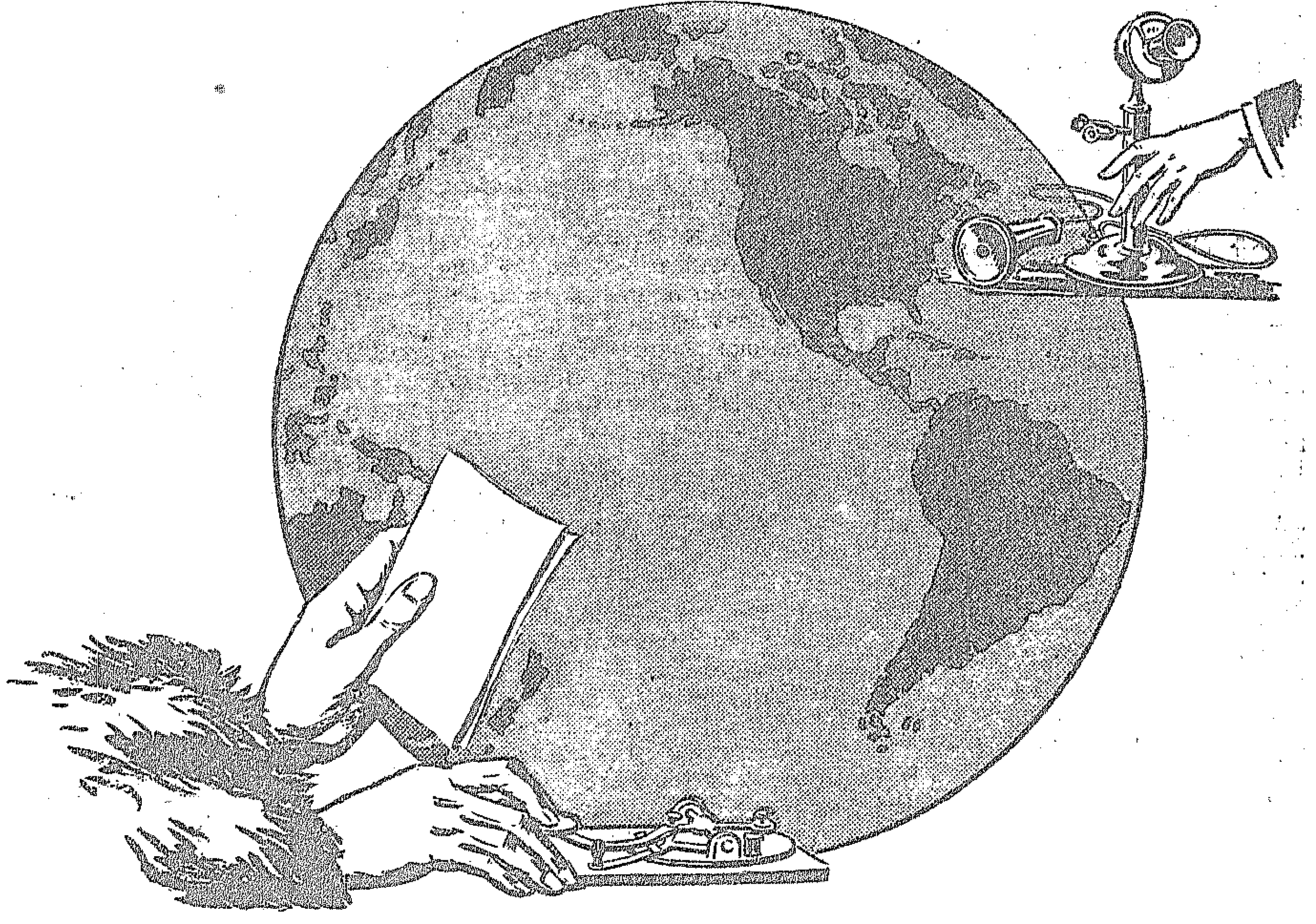
Paul Boestler, Ch.E. '33—There is no other form of competition that causes a greater feeling of good fellowship than boxing. This not only applies to competitors but to the spectators as well. Anyone who has observed the absolute lack of formality at a boxing match will appreciate this. Thus I say—more boxing matches at A. I. T.

Milton Kuetner, C.E. '33—Although boxing is considered a minor sport in the College calendar, I believe it is very interesting. I wish that Armour could and would hold more boxing matches in our gym.

Carl H. Poedtko, C.E. '33—Boxing is one of the highest forms of athletics and should be given its proper place at Armour. The fellow that boxes always has to be fit and has to practice very much to obtain the best results. The fellows should realize this and support the team.

W. R. Trogitz, Ch.E. '30—The last bouts were certainly a success and an indication that we should have more of them.

Before President Coolidge left office he said that when he was out he expected to do a bit of whittling. Perhaps he knew how many pencils those magazine articles would use up.



## “Meinholtz, the Times Wants You - - -”

FRED E. MEINHOLTZ of the New York Times sat in his home on Long Island, listening-in on a radio press dispatch from the Byrd expedition. Someone on the Times staff wanted to reach Meinholtz on his home phone. And quickly! But the receiver there happened to be off the hook.

Radio science was equal to the occasion. The Times radio operator sent a request to the fur-clad operator at the other end of the world. And Meinholtz was quickly made aware of the situation by a radio message from Antarctica saying: “Meinholtz, the Times wants you to hang up your receiver so that they can call you on-the telephone.”

JOIN US IN THE GENERAL ELECTRIC HOUR, BROADCAST EVERY SATURDAY AT 9 P.M., E.S.T. ON A NATION-WIDE N.B.C. NETWORK

# GENERAL ELECTRIC



Radio and research are among the many lines of work in which college-trained men are engaged at General Electric, where they also receive further technical and business training.

GENERAL ELECTRIC COMPANY, SCHENECTADY, NEW YORK

### Engineers Honor Dean M. E. Cooley

The Washington Award, founded by John Watson Alvord, given "for pre-eminent service in advancing human progress," has been presented this year to Mortimer Elwyn Cooley, D. Eng. This is one of the three honors in which all four of the major engineering societies of the United States participate. The Western Society of Engineers administers the award. The presentation of the award was held at a banquet in the Grand Ball Room of the Palmer House last Monday, February 24.

Dean Cooley, as he is affectionately known by the thousands of engineers he has helped, is eminently qualified for the award, which seeks to recognize merit, regardless of previous honors. He built the foundation, broad and strong, on which were based a thousand notable engineering careers. The Committee making the award commended Dr. Cooley for his "vision and constructive leadership in the education of the engineers."

Born of sturdy American pioneer stock and with only a meager education, he gained appointment to the U. S. Naval Academy in 1874 and in 1881 was ordered to the University of Michigan to teach steam engineering. After four years there he was given the honorary degree of Mechanical Engineering and an invitation to resign his naval commission and accept the chair of Mechanical Engineering at the University. He did so and has been there ever since. He was a pioneer in the establishment of engineering laboratories to provide students with a practical knowledge of materials and processes in engineering. His vision and constructive leadership have done much to shape the course of engineering education in America.

A representative from each of the four societies delivered greetings from their members. Dean Palmer, who had been invited to attend, was pleasantly surprised to find that the representative from the American Institute of Mining and Metallurgical Engineers was an old friend of his, Mr. Kelly, whom he had not seen since he taught school in Northern Michigan 31 years ago. Mr. Kelly is a past president of the American Institute of Mining and Metallurgical Engineers and is known by his friends as the "Dean of Mining Engineers."

The principal address of the evening was delivered by Dr. Howard McClenahan, secretary of the Franklin Institute, Philadelphia, Pa., which has been a great promoter of invention, research, and scientific education for the last one-hundred years. His theme was based on the contributions of engineers to the advancement of civilization, which proved an eye opener to many engineers who had not appreciated the far-reaching effects of their own works.

The recipients of the award in past years are: 1919, Hon. Herbert C. Hoover; 1922, Robert W. Hunt; 1923, Dr. Arthur N. Talbot; 1925, Jonas Waldo Smith; 1926, John Watson Alvord; 1927, Dr. Orville Wright; 1928, Dr. Michael Pupin; 1929, Bion Joseph Arnold.

Mr. Robert B. Harper, '03, has been made a Vice-President in charge of research and testing at a meeting of the Board of Directors of the People's Gas Light and Coke Company. Mr. George F. Mitchell, who had been Vice-President was made President. He was graduated from the Armour Scientific Academy.

Consult the man who travels on a pass if you would know the defects of a railroad.

**ANNOUNCING THE OPENING OF RALPH'S BILLIARD PARLOR IN CONNECTION WITH RALPH'S BARBER SHOP 117 East 35th St.**

### Ypsilanti Wins Last Cage Game

Ypsilanti teachers overcame an 11-point lead to win from Tech 31-26, in the last basketball game of the season, played at the Armory, last Thursday afternoon. The Kraffmen were leading 21-10 at the half but in the final period were unable to find the hoop to maintain their advantage.

The first half opened when Rutkowski made a free throw and Ott sank a field goal for Tech's first points. Armour outplayed and outmaneuvered the visitors throughout the first half; field goals and free throws alike were sunk with unusual accuracy.

A large number of baskets were made as the result of fine teamwork and accurate passing. Ypsilanti started their scoring toward the end of the half, making three baskets in succession.

The second half was another story. Armour managed to maintain their lead for the first ten minutes, then a sudden spurt by the visitors brought them on more even terms. The Kraffmen were unable to stop Michigan States' offensive, therefore four field goals in succession gave the visitors the lead. With three minutes left to play the Teachers stalled and, although Armour fought hard, they were unable to overcome the five-point lead. Final score: Armour 26, Ypsilanti 31.

Armour, 26			
	F.G.	F.T.	P.
Simpson, r.f.	2	2	2
Tell, r.f.	0	0	0
Ott, l.f.	3	0	0
Rossing, c.	3	1	3
Rowley, r.g.	0	0	0
Miran, r.g.	2	2	4
Rutkowski, l.g.	0	1	4
	10	6	13

Ypsilanti, 31			
	F.G.	F.T.	P.
Cabel, l.f.	2	0	4
Giles, r.f.	3	4	1
Whitney, c.	4	1	3
Rice, c.	1	0	0
Muellich, r.g.	0	1	1
Arnold, r.g.	0	1	0
Leach, l.g.	1	1	1
Chafer, l.g.	0	1	1
	11	9	11

An English company is about to produce talkies in six languages. Added to his many other accomplishments, it looks as though the talkie-actor of the future must be a linguist as well.

### Rare Books in Armour Library

Among the 35,000 volumes in the Armour Institute Library there are many rare and valuable books. Some of these have been obtained during the years of the World War through the efforts of Dean Palmer.

The Dean is a great lover of books and knows the worth of the rare volumes. Consequently, when the opportunity presented itself during the war, he purchased a number of rare books for the library. The great world conflict had thrown many English and German library collections on the market, and the Dean, who receives foreign book catalogs, was thus able to buy at a low price.

One of the constituents of the Armour library is a book known as the Blerens de Haan Integral Tables. In it is contained the most complete table of integrals yet compiled. The compilation of the tables occupied most of Blerens de Haan's life, and the author became famous in the mathematical world because of it.

French is the language in which the text is written although de Haan was a native of Holland. The list of integrals was published in two volumes during the 1850's. The contents of the first volume consisted of integral derivations discovered by de Haan, while the second volume, which Armour has, presented the table of integrals. One of the features of de Haan's book is the methodical way in which he has classified the integrals. Any function which one may care to integrate can easily be found by the system employed.

As far as is known, there are but two of the tables in Chicago. Armour has one and the other is at the University of Chicago. This fact illustrates the scarcity of the book which Armour is so fortunate to possess.

### RICH HELIUM GAS DEPOSIT IS DISCOVERED

Discovery in southeastern Colorado of a supply of helium gas, believed to be the richest in existence, was announced here last week by Professor F. F. Hintze, Utah geologist. Helium, a noninflammable gas, is used in dirigibles.

The old traditional carrying of canes by the senior law students has been taken up again at Indiana university.

### FRATERNITY NOTES

**THETA XI**  
Last Saturday, March 1, formal initiation was held for the nine men who have just finished a week of probation. Those initiated were: G. R. Belton, R. W. Carlstrom, W. D. Jackson, T. Leavitt, W. R. Mulroney, C. A. Nelson, J. R. Pechman, J. T. Sorenson, and W. W. Taylor. Don Cleghorn of Omega chapter at Washington State College, Pullman, Washington, was a visitor at the chapter here last week.

**DELTA TAU DELTA**  
The Annual Delt Prom. given each year by the three Chicago Chapters, Armour, Northwestern, and Chicago, will be held in the Eal Taberin of the Sherman Hotel on March 7th, 1930.

T. R. Schueler brings back good reports from the Western Division Conference, which convened at Lawrence, Kansas February 28 and March 1.

**TRIANGLE**  
Probation period over, the formal initiation was held at the house Sunday, March 2, at 2:30 o'clock, with a banquet following at the Illinois Women's Athletic Club. The following men were initiated: Bodinson, Bergland, Dufour, Kenner, and Oberbeck.

**KAPPA DELTA TAU**  
Plans for initiation, which will be held March 15 or 16, are being completed, while those for a spring dance are just being started.

**IT PAYS TO LOOK WELL WHITE SANITARY BARBER SHOP**  
N. E. CORNER 51ST & INDIANA AVE. Basement

**SIGMA KAPPA DELTA**  
An Alumni Smoker was held at the Chapter house last Wednesday, February 26.

It has been noted that several professors are wearing relieved expressions after discovering that the suspicious looking characters in their classes were not members of the House of David, but simply S. K. D. pledges on probation. The following men are again worrying about school work: Joseph Kennedy, Charles Jens, Diamond Dicky, Paul Drebes, Bradford Larson, Frank Strassenberg, and Robert Krause.

**SIGMA ALPHA MU**  
Sigma Epsilon of Sigma Alpha Mu announces the pledging of Morten Silfen, C.E., '33.

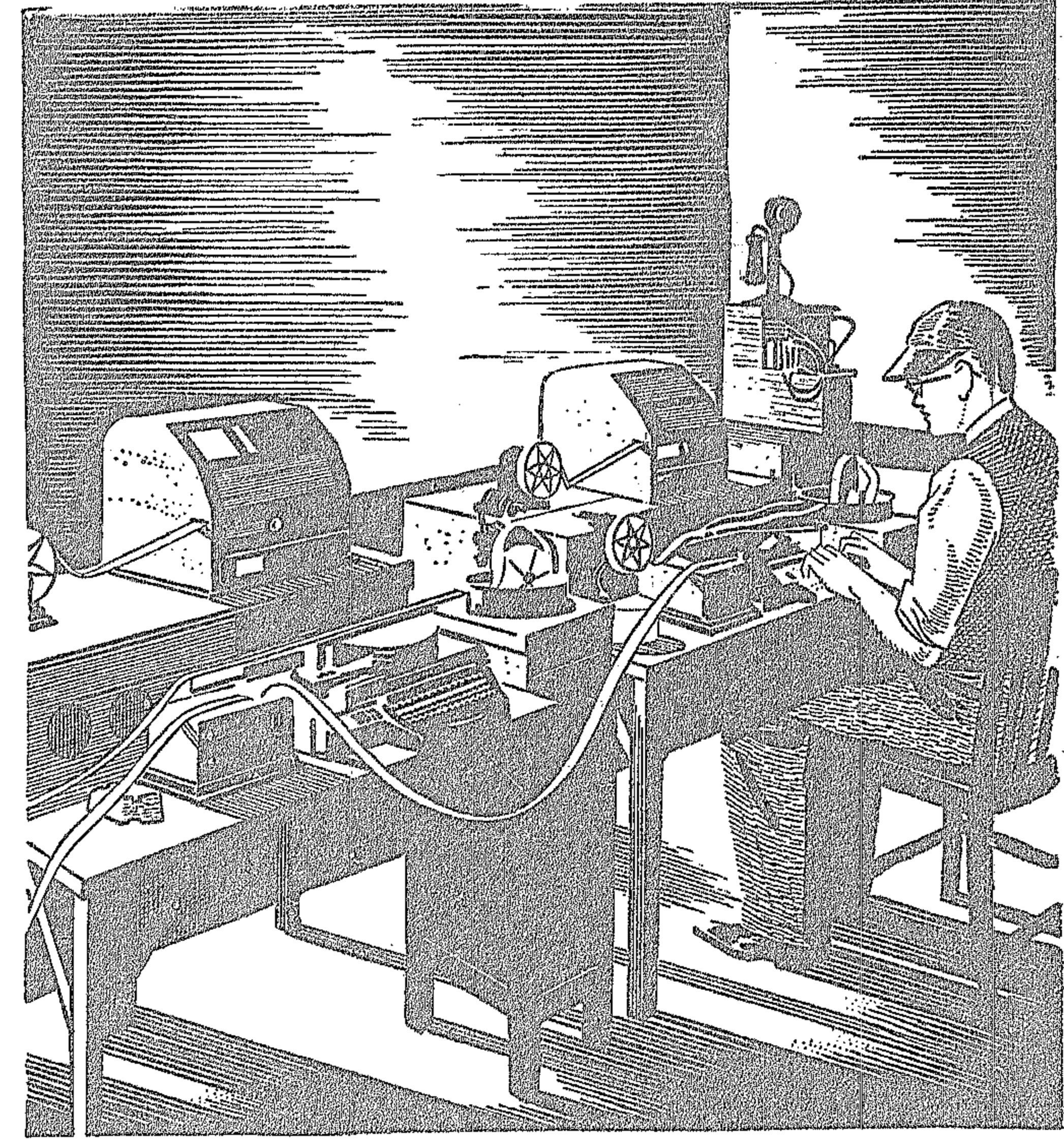
Nicholas Longworth, speaker of the house of representatives, is in possession of the revolver used by the notorious bandit, Jesse James.

**ALUMNI NEWS**  
Mr. William Robert Wilson, '06, has recently been made Vice-President, General Manager, and director of Reo Motor Corporation of Lansing, Michigan. In the past he has held the following positions: President of Maxwell Chalmers Auto Company; Vice-President of Irving Trust Company of New York; Receiver for Murray Bed Corporation; President of Copeland Products Company; President of the Allied Motors Incorporated; and Chairman of the Board of Great Lakes Aircraft. He has also held an executive position with Dodge Brothers and been connected with the Studebaker Corp. and the Westinghouse Elec. Mfg. Co.

Dean Palmer spoke on "The Parents, the College, and the Student," last Thursday afternoon at a meeting of the Chicago Council of Senior and Junior High Schools, Parent Teachers' Association of Chicago at the Womens' City Club.

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## Typing by wire—an adventure in communication

The telephone typewriter, a new Bell System service, has commercial possibilities as yet barely realized. For example, a business house can type-write a message over telephone wires, and this is retyped instantaneously and simultaneously in any number of branch offices. The advantage is obvious — in knitting together far-flung organizations and in quickening the pace of business. Here is still another extension of telephone service which has already proved its value. The telephone typewriter promises even greater things as industry discovers new uses for this instrument of convenient communication.

### BELL SYSTEM

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# ARMOUR BOXERS DEFEAT Y. M. C. A. CHAMPS BY WINNING THREE BOUTS

### Students Show Big Surprise By Showing School Spirit; Over 150 Attend

## USTRYSKI STARS IN MAIN BOUT

School spirit and sport interest, with an overflow of enthusiasm suddenly gripped the Armour student body last Tuesday night at the Armour-South Chicago Y. M. C. A. boxing match, held in the gymnasium.

Armour won the contest, punching their way ahead of the State Y. M. C. A. champions in three of the five bouts. The attraction was witnessed by a gathering of over 150 fans, composed of students and faculty members. Yelling and cheering predominated throughout the one hour session.

The three outstanding fights were those between Ustrycki and J. Pekar of the "Y," Schwartz of Armour and Stewart, Montesano of Armour and Lipinski. The Ustrycki-Pekar battle headlined the evening's proceedings. It was a grudge battle that took root in South Chicago on February 18. In the bout of that date, Ustrycki lost to Pekar by a close margin after he floored his opponent on two occasions.

### The Main Bout

Both fighters were well matched. They were fast, had good stance, and exchanged blows frequently, but the outcome was decisive. Ustrycki sought to avenge that first defeat and never faltered at any opportunity that would allow him to redeem himself. His right and left arms were so well packed with brawn that he sent Pekar to the canvas four times in the three-round affair. At one time his left arm swing dazed Pekar for a nine-second count.

The Schwartz-Stewart fight did not feature as much heavy punching as did the Ustrycki-Pekar match. Both fighters hammered each other repeatedly but Schwartz managed to come out ahead of each entanglement with a straight-arm jolt into Stewart's face. The first two rounds of this fight were closely contested, while the third favored Schwartz more decidedly. Schwartz climaxed the fight with four healthy blows to Stewart's chin and cheeks.

### A Defensive Match

The second bout on the card was between Whitfield and P. Pecar. Whitfield was declared the winner. Armour's representative displayed his wares from the defensive angle of the match. Pecar was the more aggressive man, always plugging into Whitfield. The teachings of Coach Weissman, however, enabled Whitfield to manage himself into winning even if he had to refrain from making a single forward move.

Pecar's method of advancing towards Whitfield only made him an easy target for the opponent. Every time Pecar became too bold with his aggressiveness, Whitfield would send him back against the ropes with a boxing glove imprint on his jaws.

### An Extra Round Required

Montesano and Lipinski provided the action in the third bout. Montesano opened the fight with a terrific blow to Lipinski's face that sent him completely out of the ring. Lipinski retaliated and scored the greater number of blows in that round. The fight was declared a draw at the end of the three rounds and was extended to the fourth round. Montesano again opened up with hard body and face blows in this round but weakened in the final minute thus losing the decision.

Hoekenson's straight arm jolt opened a deep gash in Morowitz's nose in the first round of their battle, causing both fighters to mix amid a splatter of blood. Referee Garbett, likewise, had to contend with the red drippings that settled on his arms and shirt sleeves. Hoekenson had but a slight edge over Morowitz in the first round

## Armour Swamps Morton Trackmen

Armour ran away from Morton Junior College in the first indoor dual track meet of the season last Wednesday by the decisive score of 55 to 16 at Bartlett Gym. The team copped seven first places to Morton's one and also won all three places in the quarter and half mile runs.

After the first two events the meet was very lop-sided for Morton was very poor in the distance and field events.

The most outstanding feat was when Sademan, a freshman, broke the school record in the two mile run held by Fred Payne, '28. He ran it in 10:29 4/5 without any decided competition. Ireland, also a freshman, finished second.

The mile run was the most exciting event because James and Iverson were neck and neck most of the time. James finally won the run beating his time of last Saturday by one second.

Sturm and Fox had their usual struggle in the 440 yard run, but Sturm galloped in first.

Captain Paul and Sturm each took two first places, and are again starting their rivalry of last season for having the highest number of points in all of the meets.

Timmermans copped first in the 880-yard run with Sorenson and McKinney, Freshmen, running second and third, respectively.

### Summaries

50-yard dash—1st, Strum, A.; 2nd, Turdik, M.; 3rd, Jirka, M. Time :05 7/10.

50-yard high hurdles—1st, Turdik, M.; 2nd, Kara, A.; 3rd, Walton, M. Time :07 2/10.

440-yard run—1st, Sturm, A.; 2nd, H. Fox, A.; 3rd, Hirsch, A. Time :54 4/10.

### Summaries

100 Yard Free Style:—Won by Knox, Armour; Carlstrom, Armour, second; La Force, Normal, third. Time, 1:03.1.

40 Yard Breast Stroke:—Won by Trognitz, Armour; Cavanaugh, Armour, second; Freeberg, Normal, third. Time, 0:26.3.

60 Yard Backstroke:—Won by Weston, Armour; La Force, Armour, second; Simon, Normal, third. Time, 0:43.1.

40 Yard Freestyle:—Won by Byanskas, Armour; Carlstrom, Armour, second; La Force, Normal, third. Time, 0:21.1.

Fancy Diving:—Won by Strauch, Armour; Thomson, Armour, second; Goodheart, Normal, third. 220 Yard Freestyle:—Won by Davidson, Armour; L. Davidson, Armour, second; La Force, Normal, third. Time, 2:49.2.

160 Yard Relay:—Won by Armour team (Davidson, La Force, Carlstrom, Byanskas); Normal team (Goodheart, Simon, Herman, La Force) second. Time, 1:24.4.

### Tough Luck for Payne

To break a record is one thing, but to break one by one half of a minute is quite another. Sademan, the freshman fire protect, in the meet with Morton, did just this in the two mile race.

The best time ever to be recorded in a two mile race at Armour prior to last Wednesday was by F. D. Payne, '29. Fred galloped the distance in about eleven minutes flat, which is very good time.

but he put up a more impressive fight in the two other rounds.

### Larkin and Buehling Out

Coach Weissman alone stands out as the big factor in paving Armour's way to victory. Weissman's teachings coupled with demonstrations and sparring bouts enabled the team members to develop the desired amount of skill that put them on the winning side.

Larkin and Captain Buehling were declared ineligible by the doctor, as both had developed high temperatures. Taylor and Mitchell were also on the sick list but their cases were more serious than those of Larkin and Buehling. Sandstrom could not be furnished with an opponent by the "Y" team.

The Armour team will meet the West Side Y. M. C. A. this Thursday at the latter's gym, at 7:30 p.m.

## TECH SHORTS

Three Bouts Won by Tech Last Tuesday night Armour for the first time in local history entertained a visiting boxing team. The enthusiastic support of the students indicates that they are interested in the ancient art of self defense.

It seems that on such occasions as this that something must always go wrong. When one of the South Chicago pugs attempted to scrape his feet in the resin the super structure of the ring collapsed. Hence the match continued without the ring.

### We Also Have a Water Polo Team

Another very new insertion into the sport calendar last week was the water polo contest between Tech and the University of Chicago. As would be expected Tech was beaten 6-2. However, with a little more practice the team should be able to play a better offensive game than was shown against U. of C.

### Paging Mr. Allison

Last week Tech received an invitation to send a representative track team to the University of

880-yard run—1st, Timmermans, A.; 2nd, Sorenson, A.; 3rd, McKinney, A. Time 2:11.

One mile run—1st, James, A.; 2nd, Iverson, A.; 3rd, Meyers, M. Time 4:50.

Two mile run—1st, Sademan, A.; 2nd, Ireland, A. Time 10:29 4/5 (School record).

Shot put—1st, Paul, A.; 2nd, Kara, A.; 3rd, Thompson, M. Distance 45 feet 3 inches.

High Jump—1st, Paul, A.; 2nd and 3rd, Turdik and Jirka, M. (tied). Height 5 feet 2 inches.

Armour, 50 1/2  
Loyola, 35 1/2

Armour Tech track team decisively defeated Loyola University at Bartlett Gym last Saturday, 50 1/2 to 35 1/2

Sademan, the freshman flash of Tech, won both the mile and the two mile races. His time in the latter event was 15 seconds faster than his record breaking run of last Wednesday.

Pennsylvania's Thirty-sixth Annual Relay Carnival. This meet, which is better known as the Penn relays, is to be held April 25th and 26th at Franklin Field, Philadelphia.

Should Armour take part in this meet the team would compete in the college group. The college group includes the following schools: Case School of Applied Science, Stevens Institute, Worcester Polytech, Virginia Polytech, Rensselaer Polytech, Colorado School of Mines, Alabama Polytech, South Dakota School of Mines, Northeastern, Brooklyn Polytech and Rose Polytech.

Stagg would certainly like to send a team east but the expense incurred prohibits such action. Also on the same day the Drake Relays are held in the west.

A. H. J.

## Few Candidates for Tech Nine Infield

Despite the fact that a cold snap has pushed thoughts of outdoor baseball practice into the background, the enthusiasm of Coach Krafft's aggregation is as keen as it was when spring seemed to beckon. At that time, it was easy to picture the fans sitting in the bleachers on the east side of the field urging the lads to victory with numerous cries of encouragement. With such a pleasant prospect, the first call for men was given a generous response, and those who signed up are already practicing in earnest.

The new pitching and catching material looks rather promising, but its true worth is an unknown quantity until its initial baptism under fire.

The infield is noticeably poor in regard to the number of men that have been signed up. Robin, Reichle and Mago, veterans of last season, have appeared and it is possible that Weldon will also play in this combination.

Approximately 8,000 gallons of gasoline are used every week by the Western Air Express at Los Angeles.



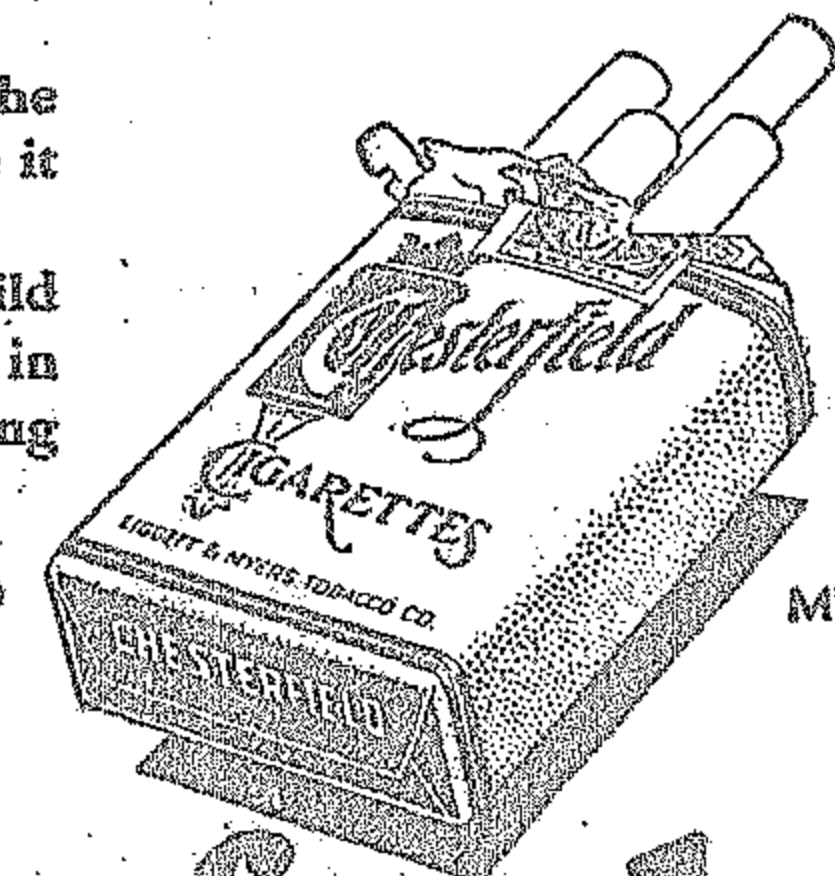
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