



## ARMOUR AUTO LAB RECEIVES WHIPPET DISPLAY CHASSIS

Presented to Institute By Willys-Overland Company

### ON DISPLAY IN LAB

A Whippet chassis, on display in the Automotive Laboratory, has been the center of attraction around the Institute during the past few days. Although the exhibit has not been officially announced till now, news of its appearance in Automotive Laboratory has created an intense interest among the student engineers.

The Whippet chassis was presented to the Armour Institute by the Willys-Overland Company, Incorporated, through the courtesy of their representatives, Mr. G. V. Orr, regional manager, and Mr. C. W. Geiger, wholesale supervisor.

### Sectioning Novel

The Whippet chassis is of the six-cylinder, 1929 model, which is manufactured by the Willys-Overland Company. It is a novel display in that sections are cut out of the engine, transmission, radiator, brakes and other parts, permitting one to observe the operation. The removal of the various sections is so arranged that the operation of every part of the machine may be seen, and in places electric light bulbs are used to illuminate the interior parts. The engine is arranged with electric bulbs, which indicate the firing order when the pistons are in motion. A self-starter motor, operated from a battery circuit, turns the various parts. Gears may be shifted and the operation observed just as in actual practice.

### Interests All Engineers

The display is interesting to the mechanical engineer from the special structural features which are embodied in it, and to the electrical engineer, whose attention is drawn to the ignition system and the electrical wiring; however, the general features arouse the attention of all auto fans.

A pleasing spectacle is presented to the observer by this chassis, which is finished in gold with chromium and silver-plated parts.

Those who have already witnessed the display have been so inquisitive that it has been necessary to request the observers to refrain from handling the machine. The display has caused a good deal of favorable comment, both by the students and the faculty.

The Whippet chassis will be arranged for inspection in the Automotive Laboratory on Monday, Tuesday and Wednesday of this week, under the direction of Professor Daniel Roesch.

## News Staff Meeting Is Well Attended

The outgoing senior staff members took leave of Armour Tech Men's staff and the junior members assumed their new duties at a meeting in the News office Wednesday afternoon, January 28.

David T. Smith, '30, retiring editor, expressed his regret at having to leave the News staff and wished all possible success to Fred B. Attwood, the new editor, and to the rest of the staff.

Professor Walter Hendricks, faculty adviser of the News, told of the school's appreciation of the work of the outgoing staff and predicted a successful future for the new managing board.

A large number attended the meeting, including quite a few newcomers to the staff.

The orchestra will have a rehearsal today in the Assembly Hall, according to a notice issued on January 30.

## Alumnus Advises Future Engineer

Doctor Raymond recently received a copy of the following letter which was sent by Mr. R. M. Henderson, '02, in answer to a letter written him by a prospective student at Armour. The questions asked Mr. Henderson were (1) Would you again consider Mechanical Engineering your choice of M. E., E. E. or C. E.? (2) Do you think M. E. today has as large or larger future field as has E. E. or C. E.? and (3) What, in your opinion, is the value of an Armour Tech. training and B. S. degree as compared to that of other colleges?

Dear Sir: Replying to your letter of January 25th, it is my view that your own personal leanings would have more influence as to which of the three courses mentioned you should take, than any other factor. They are all sound basic courses.

I believe it is better judgment to complete some one of these three courses than to scatter efforts in some of the novelty courses that have been offered in some of the engineering colleges. In my own case, graduating in Electrical Engineering, the opportunities that have happened to come my way have been less electrical and more mechanical, industrial and civil.

Mechanical engineering is, of course, the foundation of all Aviation engineering; but as that branch is likely to be very much in the public eye for the next generation, it is likely to be a popular course.

Electrical engineering has probably as great opportunities in the next twenty-five years as it has in the past.

Civil Engineering is usually regarded as offering a somewhat broader foundation than either of the other two—especially if the student takes advantage of every opportunity to take both Mechanical and Electrical subjects to further broaden the civil engineering base.

Given any one of the three courses as a foundation, you will have a sufficiently broad foundation on which to build up such specialized knowledge as you will find requisite in the particular

## CHIEF ENGINEER EXPLAINS BREAK-DOWN OF DYNAMO

A fracture of the valve run-way on the big steam engine in the engine room on January 30, was the cause of many technical discussions by amateur mechanical engineers. During the time the run-way was being repaired one of the smaller steam engines was pressed into service.

The cause of the fracture was not definitely determined but Mr. Allen, the chief engineer, gave as his opinion that a slug of water that got into the steam cylinder of the engine was to blame. This opinion was supported by several members of the faculty. The engine is old and apparently the run-way has been gradually weakening for some time and, when overstrained by the increased pressure, it gave way.

## Amsbary Broadcasts Over Station WLW

Wallace Bruce Amsbary, Professorial Lecturer in General Literature, broadcast two eighteen minute programs of recitations over station WLW at Cincinnati on Wednesday, February 5. The program was given under the direction of the Ohio State Board of Education in their "School of the Air" feature. Classes in eight thousand school rooms in and about Cincinnati were suspended in order to tune in on the program.

## RETIRING AND NEW EDITOR



DAVID T. SMITH

David T. Smith, retiring editor of the News, leaves behind him an enviable record of twenty-two issues of the News which were published under his guidance. Dave has been a member of the staff of the News ever since its first epoch making issue of April 9, 1928, and has been instrumental in making the paper what it is today. He served as assistant editor, associate editor, desk editor, and news editor before finally assuming the full responsibilities on the retirement of John Hommes, the first editor of the News, on April 16, 1929.

Fred Attwood, the new editor, has been on the staff practically since the first issue, rising through the ranks of reporter, assistant news editor, and news editor. In addition



FRED B. ATTWOOD

he has had considerable experience in all departments of the paper.

The purpose in changing staffs in the middle of the year instead of at the beginning of the second semester is to give the Junior members an opportunity to assume the responsibilities of the papers and still have the advantage of an advisory board to whom they may go for advice.

Neither the size of the paper nor the day of distribution will be changed at present, and the subscription price will remain at \$1.00 per semester. An improved system of distribution of papers to student subscribers will be effected in the near future, both to the Engineering and Architectural students.

## Nash, Kelly Represent Armour at Deerfield

The Deerfield-Shields high school held a "College Night" for their undergraduates Saturday, February 1 in an effort to enable their students to learn the requirements of the college that they plan to attend. Fifty colleges were represented, Professor C. A. Nash and Mr. Ernest Kelly being Armour's delegates.

The majority of the delegates were alumni of Deerfield-Shields and their respective colleges. They were assembled in the gymnasium, where the students were able to discuss their problems and questions so as to prepare themselves for entrance. In another gymnasium, a program was presented by various colleges. Illinois, Northwestern, Cornell, and Knox presented a series of motion pictures relative to the colleges, and the Lake Forest male quartette entertained with selections between the showings. The entire program was concluded with a dance.

Mr. Kelly was most enthusiastic over the event, as it gives the high school under-graduates a chance to enter a college with the minimum of deficiencies, the students realizing exactly what is expected of them upon entrance.

## Award Senior Ring and Key Contract

The Senior class jewelry committee has definitely decided on an onyx ring and an onyx key similar in design to last year's, according to Vernon A. Sturm, Ch. E., '30, chairman of the committee. The contract has already been awarded to Spies Brothers, and the prices are to be, \$8.50 for the ring, and \$6.00 for the key.

Orders will be taken beginning Thursday, February 13, for delivery during March. The members of the committee, to whom orders may be given, are: V. A. Sturm, D. T. Smith, F.P.E., E. B. Ross, F.P.E., B. H. Roffee, E.E., and W. K. Simpson, Ch.E.

## Glee Club Asks for New Talent

The Glee Club is contemplating giving a program of their own to the students about the middle of this semester, in addition to taking part in the annual Spring Concert in June. Several new songs have been obtained, and the Club is getting them in fine shape for this event.

This semester, as was the case last semester, the Glee Club will continue meeting in the Mission Assembly Hall every Thursday evening from 5:00 to 6:00 p. m. Practice, under the direction of Dr. Daniel Protheroe, will be resumed for this semester on Thursday, Feb. 20. New men are invited to try-outs on this date.

## Beaux-Arts Medals Now on Exhibition

The Second Medals in the first and second projects of the Beaux-Arts Institute of Design, are now on exhibition in the bulletin case at the Art Institute. The projects consisted of the drawing and rendering of a Horticultural Society Building and of an Arena.

## Lincoln Assembly Tuesday at 10:30

Armour's annual Lincoln's Birthday Assembly will be held at 10:30 Tuesday, February 11, with the Rev. Dr. William H. Boddy, D. D., pastor of the First Presbyterian Church, as the speaker of the day, and the orchestra supplying the musical entertainment. The assembly is being held on February 11, since Wednesday, February 12, is a full holiday for all students. Dr. Boddy's address will be on "Abraham Lincoln."

Dr. Boddy was born in Berkeley, Calif., and was educated in Pacific coast schools and colleges. He attended Reed College, Portland, Ore., and after graduation in 1914, became an instructor in English at the same school, a position which he held for several years. Six years ago he came to Chicago to take over the pastorate of the First Presbyterian Church and has remained in that office since.

## Hold-Up Senior Passing Field

Dave Baldwin, F. P. E. '30, was gently, but not too gently, relieved of his watch and a small sum of money Tuesday night, January 27, when returning home late in the evening.

He was going by Ogden Field when someone came up behind him. He turned just in time to catch a blow in the face. Two negroes grabbed him and demanded money. Because of the closeness of a revolver, Dave says, he could not resist. Just as Baldwin was telling the men that he did not have a watch, his watch fell out of a pocket. The robbers hit him again for this, and angered because they did not find more money, they hit again and left.

## FRESHMEN E. E.'s HEAR ADDRESS BY PROF. FREEMAN

The Freshmen of the Electrical Engineering department were addressed the last Wednesday of school, January 29, by Professor Freeman, the head of their department, in Science Hall on how to get the most out of their course. He advises them to apply themselves in their studies constantly and consistently, so as to obtain a solid foundation for their later school-work and for their life-work. He spoke about the advisability of getting a good program, not neglecting or evading any work, the lack of which might later hinder them. The necessity of obtaining all pre-requisite subjects whose absence might later cause conflict was stressed. In case of such an occurrence, it was suggested that the men lose no time in conferring with the Dean's office.

Professor Freeman also spoke about the development of character.

## Chi Epsilon Holds Formal Initiation

The formal initiation of Chi Epsilon, honorary civil engineering fraternity, was held Wednesday, January 29, at the Phi Kappa Sigma house. In addition to the alumni, actives, and pledges, there were present five of the six members of the civil faculty.

Keys were received by George W. Kohout, Morris O. Nelson, and Russell A. West. Assistant Professor of Civil Engineering, Henry T. Heald, was made an honorary member. A banquet followed the initiation, the after dinner speeches being furnished by alumni and the initiates. Following the banquet was a theater party.

## STUDENTS ENROLL AND MAKE THEIR PROGRAMS TODAY

All Classes Will Meet for Regular Work Tomorrow

### INSTRUCTIONS GIVEN

Registration of all students for the second semester of the school year will take place today, according to the plans of the Dean's office, in a similar manner to last year. A few changes have been made, however, and students are asked to read the instructions carefully. Monday, February 10, will be devoted entirely to registration, enrollment in classes, making out program cards, and such other preliminaries as are necessary in order to begin the regular school work on Tuesday, February 11. A charge of one dollar is made for registration later than the date mentioned above.

Instructions Freshmen and new students will proceed as follows:

1. Fill out enrollment cards and enroll in the Electric Laboratory on the second floor.
2. Pay fees in the Library and receive a registration receipt.
3. Enroll with their instructors, who will be found in the Library and who will assist them in making out their program cards.

Sophomores, Juniors and Seniors will enroll as follows:

Mechanicals with Professors Huntly and Peebles in the Mechanical Laboratory in the basement of the Main Building.

Electricals with Professors Nash and Richardson in the Electrical Lecture Room, second floor, Main Building.

Chemicals with Professors Freud and Bentley in Room A, fourth floor, Main Building.

Fire Protects with Professor Finnegan and Mr. Holmes in Room H, third floor, Main Building.

Civils and Architects with Professors Stevens and Heald in the Card Drafting Room, on the second floor of Mission Building.

(Continued on Page 3)

## Tau Beta Pi Elects Gunther President

Tau Beta Pi, Honorary Engineering Fraternity, held an election of officers in its rooms on Friday, January 31. The following men were put in office:

Pres.—A. C. Gunther, '30.  
Vice-Pres.—R. M. Spencer, '30.  
Corr. Secty.—F. B. Attwood, '31.  
Recording Secty.—C. F. Vojtech, '30.

Professor Peebles was re-elected Treasurer of the society.

## Scarab Awards Medals to Simon and Braun

The annual Scarab awards, consisting of a silver and a bronze medal given to the two Sophomore architects who submit the best drawings in the final project, were won by Avron L. Simon and Donald G. Braun, respectively. Honorable mentions were received by D. Chapman, J. Palma, and R. Peterson.

The project was a Commemorative Hall dedicated to those who fell in the World War, and donated to a small city by a group of wealthy citizens. The drawings were judged last week by the department heads.

## Campus Club Dines at Great Northern

The annual mid-year banquet of the Campus Club was held last Wednesday at the Great Northern Hotel. Professor Mangold, faculty advisor of the club, attended.

## CALENDAR

- MONDAY**  
Registration of all classes.  
5:00 P. M.  
Orchestra Rehearsal.  
11:30 A. M. Meeting of Baseball Candidates: Room A.
- TUESDAY**  
Classes Begin.  
10:30 A. M.  
Lincoln Day Assembly.
- WEDNESDAY**  
Holiday, Lincoln's Birthday.
- THURSDAY**  
Orders taken for Senior Jewelry.
- FRIDAY**  
4:30. Armour Basketball Game at Armour.

# Armour Tech News

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## PRINTING

Few people realize the extent of the influence of the printing press upon civilization. But as much as any other one factor, the printing press caused the renaissance, and this thing we call our modern civilization.

For men to learn to live, they must first learn to read. The amount of knowledge that can be passed on by word of mouth alone is not great. For men to read, there must be books, and great quantities of books. The more books, the greater number to which we can spread this knowledge. The more people who gain knowledge, the more opportunity for the advancement of the race.

Up to the time of printing from movable type the human tendency to keep things secret, to develop a monopoly on information and surrounding a certain sort of knowledge with mystery, to use it as a tool of tyranny over others, ran on more or less unhindered. Before the invention of movable type, it was physically impossible to produce a great number of books. The printer struck a deathblow at this monopoly of knowledge by the few by what might be termed the mass production of knowledge, or rather mass re-production of knowledge.

With the invention of movable type, books became plentiful and also cheap in price. The vault of knowledge was opened to all, rich and poor alike, and the masses eagerly responded to the invitation. Only four hundred and sixty-two years ago, John Guttenberg, of Mainz, inventor of movable type, died. At that time, the man who could read and write was a great exception; today the man who cannot read and write is looked upon as a curiosity.

After the opening of knowledge to the masses, the control of government changed from the hands of the educated few to the many. With knowledge came equal power, until today all men are ranked free and equal. Besides gaining political liberty, the common man achieved intellectual and religious freedom. To use the words of Doctor Glenn Frank of the University of Wisconsin, "Before the invention of printing from movable type the spread of knowledge was but a thin trickle from individual to individual."

"After the invention of printing from movable type the spread of knowledge became a great flood enriching and fertilizing the minds of the millions."

D. T. S.

This is the first issue of the *Armour Tech News* by the staff for 1930. We present it to you with the hope that it is continuing the high standards set for it by the retiring editor-in-chief, David T. Smith and his colleagues. He has left a glorious record; it is our mission to carry onward to greater goals. We hope every issue will be an improvement over the last, and will work toward that end.

The staff is made up of students, and represents the journalistic talent of the student-body; we are not geniuses, but the paper shall be worthy of *Armour*. We promise to do our best, aiming constantly to improve the editorial policy and the style, and to please our subscribers. Several new innovations are under consideration, which, finances warranting, are to be installed. We are open to sugges-

## THE SLIPSTICK

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

## Those Are Sweet Words

The saddest words of tongue or pen  
May be perhaps, "It might have been."  
The sweetest words we know, by heck,  
Are only these, "Enclosed find check."

H. H.

The semi-annual struggle is over. Ah—h (Sigh of relief).

## WHAT DID YOU EXPECT, A WIG?

"Mom, there's hairs in the soup!"  
"That's all right this is noodle soup!"

O. W.

A line is as strong as its weakest word.

Teacher: "If I had nine children and eight apples how would I make the apples go round?"  
Modern Youngster: "Aw, applesauce!"

Chuck.

A pessimist is a fellow who says he doesn't expect to live the rest of his life.

While you are registering, fixing programs, and getting rid of the dough, it is time for concentration: Seniors graduation in June; Juniors wondering what this thing called Hydro is all about; (you probably won't know six months from now); Sophs, no thoughts at all, just a blank look; and finally the dear freshmen, only seven more semesters (if you are lucky).

## ONE FOR LITTLE WILLIE

Mother (on street car)—"If you are not a good boy, I shall slap you."  
Little Willie—"You slap me and I'll tell the conductor my real age."

R. G. K.

Bigamy is its own punishment.

## VERILY, IT'S TRUE

The most reliable lads in the world are college men—there never seems to be a bit of change about them.

Bud

"What was the joke about, that the prof told in class?"  
"I don't know. He didn't say."

Phil. J.

Undertakers thrive on the bier racket.

Fair One: "Is football your favorite game?"  
Not So Fair: "No, quail on toast is mine; what's yours?"

Walt.

Joe started to tell us a joke about a rooster, or was it ducks, anyway either he forgot the best part of it, or it wasn't a joke.

## Limit of Politeness

He: "Pardon me, my dear madam, but you're punching your umbrella into my eye."  
She: "Oh, I'm so sorry."  
He: "Oh, don't mention it. I have another eye."

R. F. S.

She's a toe dancer, he mused as he massaged his bruised toes.

Walt.

## \$1.00 PER SEMESTER

Don't forget to subscribe to the *Armour Tech News* (this is no joke, we are serious now). It is a school activity, why not partake in and of it.

They say that a little bit of vinegar knows its own mother, but it's a wise cork that knows its own pop.

R. S. F.

## A Good Idea

"Shall we buy the janitor a tie for his birthday?"  
"No, he has a necktie; let's buy him a new broom."

## No. 36: Study of the Spectroscope

Temperamentally she was like a rainbow. She'd get green with envy; white with fear and purple with rage. Some things tickled her pink, and some happenings made her see red, while in between times she felt blue.

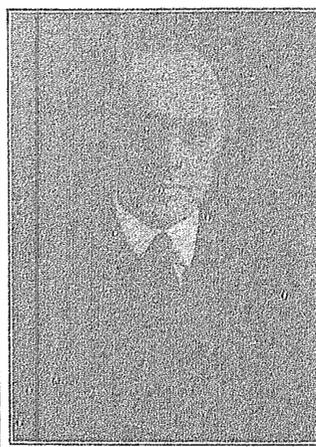
Dick.

This time of year brings some satisfaction. At least you are not behind in problems and reports now. (This doesn't count if you got an I.)

K. K.

tions and are willing to consider any new improvement suggested by a member of the student-body, providing it is practical, for we realize, and we want you to realize, that this is just as much your newspaper as ours.

Your approval is reflected in the number of subscriptions the *News* receives. We hope that it will be one-hundred per cent.



## Professor William Charles Krathwohl

(A Biographical Sketch)

BY P. EMIL SEIDELMAN, 31

William Charles Krathwohl, Associate Professor of Mathematics, was born in Buffalo, New York on October 10, 1882. He attended the public schools of this city and graduated from Masten Park High School in 1901. The next three years he spent designing lens with the Spencer Lens Co., of Buffalo.

He entered Harvard College in 1903 and graduated in 1906, as of 1907, receiving an A.B. degree in Mathematics. During his second year at College Professor Krathwohl received Second Year Honors in Mathematics. He, like all other good alumni, prides himself in being a graduate of Harvard College. This is the old part of the University and was founded not so long after the Pilgrims located in this country.

After graduation he again spent one year at lens designing, this time with Bausch and Lomb. However the lure of Mathematics could not be denied, so he entered the teaching profession, in which he has remained since joining the staff of Barnard College, which is the girls' section of Columbia, in 1907. He received his Master's Degree at Columbia University in 1910.

The following year Professor Krathwohl taught mathematics at Washington University in St. Louis, Mo. He received his Ph. D. degree at the University of Chicago in 1913. During the next year, he was Professor of Mathematics at Ripon College.

Professor Krathwohl came to the Institute in 1914 as an Assistant Professor, being promoted to Associate Professor in 1918.

He married Miss Marie Reinold of South Bend, Ind., and they have one son David, with whom the Professor spends many an enjoyable hour skating during the winter months.

Professor Krathwohl is a member of the American Mathematical Society, The Mathematical Association of America, The Society for the Promotion of Engineering Education, The Harvard Club, and the University of Chicago Alumni Association. He is co-author with Professor Palmer of one book entitled "Analytical Geometry." This book enjoys a very large circulation, being the text used in that course in many of the leading Colleges throughout the country.

Skating and golf offer him his necessary outside interest but he admitted that the juggling of identities give him as much pleasure.

Prof. Jens P. Jensen, in speaking to his Wesley Foundation Sunday School class explained thus: "The snow falls on the just and the unjust; the just shovel it away and the unjust leave it lay."

## Sear Constructs Aid for the Deaf

Professor Sear, of the Mechanical Engineering department, has just completed the construction of a device which he believes will enable people that are hard of hearing to enjoy conversations and entertainment to a greater extent than is now possible with ordinary types of ear-phones.

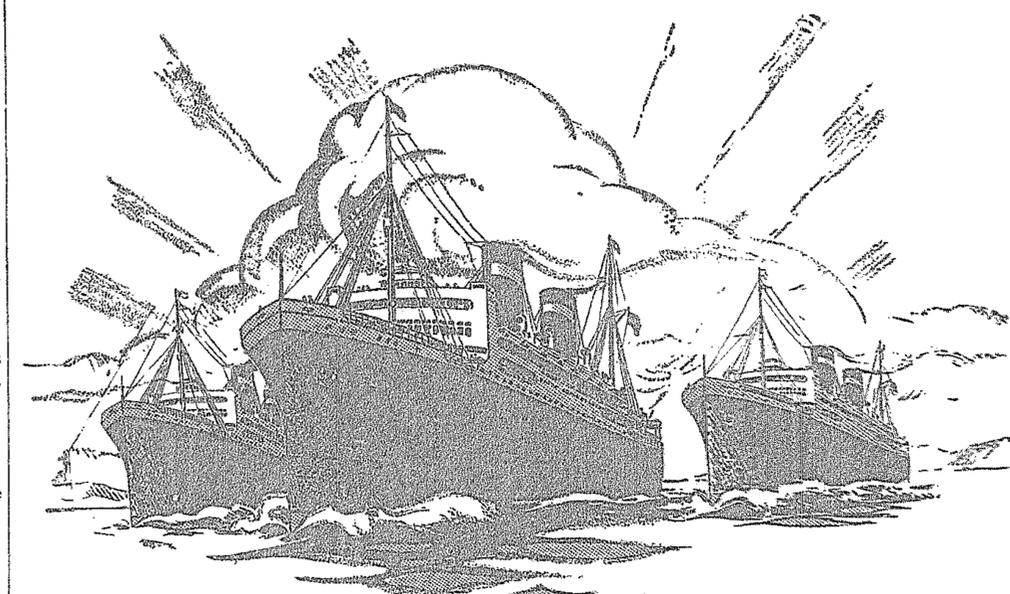
It is a two stage audio-frequency amplifier using an A and a B battery, two audio-frequency transformers, two tubes, and a microphone, a headphone, and a rheostat, the rheostat is used to control the volume. This is all enclosed in a small carrying case except the microphone which is on the coat and the headphone.

This instrument will enable deaf persons to enjoy talking pictures as well as the legitimate stage. It is also especially adapted for ordinary conversations which can be carried on as well as if the person were not deaf.

This is not intended to be carried around all the time as the weight and bulk would not permit that, but for the home and such places as the shows this should be indispensable.

Morris Culp placed a small oil stove beneath the motor of his automobile to make starting easier. While the stove was warming the motor, Culp went to the barn to milk. As he passed his garage later with a bucket of milk, he saw smoke and found the motor of the automobile in flames. Culp dashed his pailful of milk on the fire and extinguished it.

Several rural school houses in Menard county, Texas, have been built by volunteer workmen.



## Over the Horizon

HERE they come—the nucleus of an all-electric merchant marine. Yesterday, they were a dream. To-day, they are well over the horizon, linking the ports of the east and west coasts with fortnightly service. The goal of the Panama Pacific Line is to build three more turbine-electric ships, thus enabling weekly New York-Frisco sailings.

Even now, the three liners, *California*, *Virginia*, and *Pennsylvania*, constitute the largest fleet of turbine-electric commercial ships in the world.

Besides propelling these ships, electricity hoists freight, raises anchors, mans pumps, turns rudders, drives winches, and warps the vessels into their berths. It lights lamps, spins fans, operates elevators, cools and cooks food. Its magic touch is apparent on every deck.

All electric equipment, above and below deck, is a product of General Electric.

The planning, production, and distribution of such equipment has been largely the responsibility of college-trained men who are working with General Electric and who have aided in bringing these ships over the horizon.

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

GENERAL ELECTRIC COMPANY, SCHENECTADY, NEW YORK

ALUMNI NEWS

Among the recent visitors was Clarence Vander Molen, '23, who is now living in Hinsdale, Illinois.

Fred Payne, '28, dropped us a line from Milwaukee, Wisconsin, where he is busily engaged in "fire protecting."

Speaking of track men, Johnny Yount, '29, dropped around the other day to say hello. Johnny used to be one of our star shot-putters.

Sidney S. Pulaski, E. E., '29, was married to Wanda Janiszewski, a sister of Stephen Janiszewski, E. E., '30, on Saturday, January 25.

Fred Tayama, E. E., '30, is a radio dealer in San Francisco. He writes that he likes California and has no intentions of coming back east.

A letter was recently received from George Kloefer, '29, telling of his experiences and courses down at the Naval Aviation Station, Pensacola, Fla.

Alumni who were active in publication work, as well as those who partook in athletics, keep the good word going. Kent Parker, '28, ex-Editor-in-Chief of the Cycle, drops a line from Louisville, Kentucky.

"Mac" Horn, '28, who used to be President of the Musical Clubs, also writes from Kentucky, stating that he is an ardent "News" reader.

Otto Marek and H. E. Scheideman-tel, both "chemicals" of the class of '29, are now connected with the Brunswick Balke Colendar Company.

Make Drive for More Members

The A. I. E. E., student branch of the American Institute of Electrical Engineers, is making a drive, beginning with the first of this semester, to get the sophomore electricals to become associate members.

REVIEWS

THE FIELD GOD

Paul Green Goodman Theater

The current presentation at the Goodman theater, "The Field God", by Paul Green, is a play that is making a marked impression upon the playgoers.

The play is laid in a rural community of North Carolina, and the characterizations themselves make the play well worth seeing.

Every effort has been made by Paul Green to make the play true to life; such homely incidents that might tempt a less courageous author to omit are portrayed.

The dialogue throughout the evening is worthy of the author; Harry Mervis as the farmer-atheist is constantly foremost in making remarks that develop the issue.

The entire play tends to work on the emotions of the audience, and the climax may be considered to be in the revival scene, in which the "God-fearing" people try to convert the farmer.

This play is one that can hardly be missed by those who enjoy the presentation of such a subject. The question is timely and eternal; and while your personal views may differ from those presented in the play.

ter and the opportunities present for doing so at the Institute. Mention was made about the requirements of the employment agencies of large companies concerned with electrical work.

Frosh Electricals Hear Prof. Freeman

(Continued from Page 1)

The requisite qualities of good engineers were, said Professor Freeman, integrity, honesty, initiative, good judgment, technique, and knowledge of work.

Character ..... 24.0% Judgment ..... 19.5% Efficiency ..... 16.5% Understanding of men ..... 15.0% Knowledge of work ..... 15.0% Technique of practice ..... 10.0%

The lecture well repaid the time spent on it by men in all courses. Every man present felt the weight of Professor Freeman's message and the points he made were driven home to all the listeners.

De Kalb Defeats Armour Quintet

Armour Tech was defeated by De Kalb Teachers College basketball team at the 8th Regiment Armory last week 33-26.

Coach Kraft started his regular line-up consisting of Captain Simpson and Robin as forwards, Rossing as center, and Rutkowski and Miran in the guard positions.

De Kalb, after testing the Tech defense finally broke through and scored two field goals. Armour started their scoring by making a free throw.

The visitors collected four points at the start of the second half. Rowley took Miran's place as Ott replaced Captain Simpson.

Stalling Helps The visitors collected four points at the start of the second half. Rowley took Miran's place as Ott replaced Captain Simpson.

Every effort has been made by Paul Green to make the play true to life; such homely incidents that might tempt a less courageous author to omit are portrayed.

Engineer Receives Advice of Alumnus

(Continued from Page 1)

work to which you turn after graduation. I would suggest, however, that the greatest financial rewards come in the business side of engineering and that you take advantage of any spare time to study the business subjects and not overlook the fundamental value of English.

The training at Armour is, in my opinion, equal to that of any of the schools in the country—particularly if your leaning is in the direction of a normal engineering and business career.

The Institute has not been able to accommodate more than one-third of the applicants for admission for a considerable number of years. If you find that you cannot secure admission there and if you care to write me further at that time, I shall be glad to do what I can to assist you in selecting another institution.

Very truly yours, R. M. HENDERSON.

The Second Exhibition of the Architects' and Craftsmen's Work will be held from February 11 to March 11 at the Architects' Club of Chicago, 1301 Prairie avenue.

Professor J. E. Peterson's final Paris Prize drawings will be on exhibition and also drawings from each one of the architectural classes and departments. The rooms will be open daily and the admission will be free.

Professor Seager, of the Rockefeller Institute, has found that the West Indies negroes are old men and women at the age of thirty because of the hardships they have to undergo to eke out a living.

They are building airplanes so big now that you can break your neck by falling out of one that's sitting on the ground.

Notice Bill's No-Tip Barber Shop HAIRCUT 50c SHAVE 25c We Reserve Chairs by Appointment OPEN 8 A. M. TO 6 P. M. Labrador Bldg. Room 204 59 E. Adams Wabash 3377

FRATERNITY NOTES

Phi Kappa Sigma Phi Kappa Sigma announces the pledging of Henry Regnery, '33, on January 20.

Phi Kap pledges are planning an informal theatre party sometime during the next week to celebrate the successful termination of their first semester at the Institute.

Delta Tau Delta The Armour chapter is entertaining the Northwestern and Chicago chapters at a formal dance to be given February 15, 1930.

Phi Pi Phi Phi Pi Phi held an Alumni Smoker at the Chapter House on Monday, February 3, 1930, in honor of the 12th consecutive winning of the Inter-Fraternity Basketball Championship.

Beta Psi The Beta Chapter was host to its members last Saturday night. Music being furnished by the De Seipe Syncopators while a delightful assortment of refreshments were served.

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Registration and Enrollment Today

(Continued from Page 1)

After enrollment the Sophomores will pay their fees in the Library while the Juniors and Seniors pay theirs in the Cashier's office on the second floor.

Fire Protection Scholarship students will first see Mr. Allison in the Comptroller's office on the first floor and then get their receipts in the Dynamo Laboratory.

Upon enrollment with the instructors the registration receipt must be shown. No student will be allowed to enroll in a class without this receipt.

After February 10, all fees and deposits for teachers, keys, tools, laboratories, drawing boards, etc., are to be paid in the Cashier's office, at the northwest corner, second floor, Main Building.

Holabird and Root Win Gold Medal

The firm of Holabird and Root, Chicago, won the annual gold medal of honor given by the Architectural League of New York at their exhibition in the Fine Arts Society building.

The exhibits of Holabird & Root embraced the Palmolive, Daily News, and Michigan Square buildings, the Russell residence in Chicago, and the Rand Tower in Minneapolis.

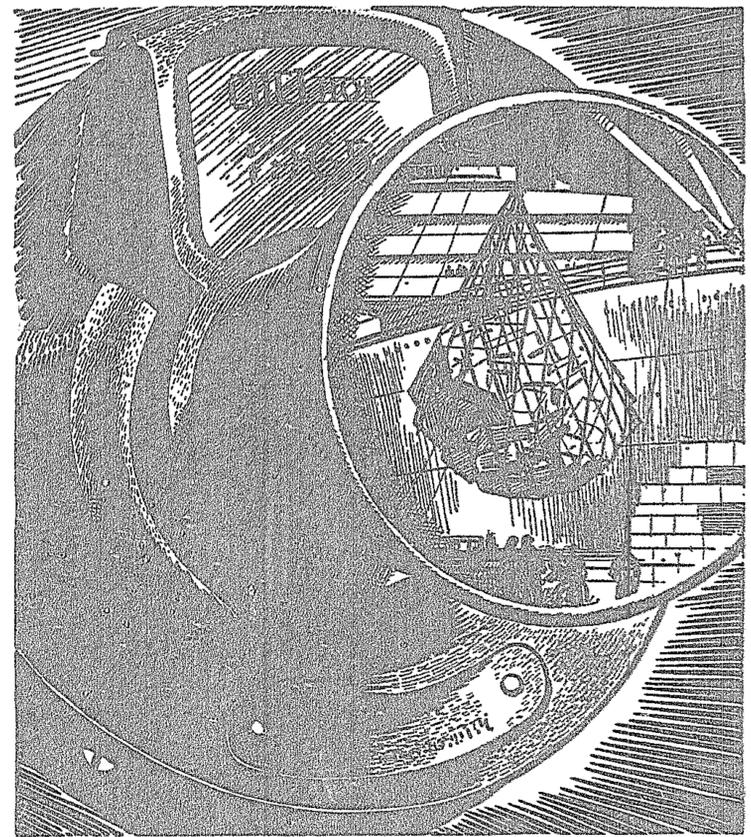
Forty students were excused from the final examination in precision of measurements last week.

NOTICE!

Will the student who has in his possession Vernon A. Sturm's Economics report on "The Paper Industry" please return same to the News Office? This report is of value only to its author.

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"OUR PIONEERING WORK HAS JUST BEGUN"

### ARMOUR LOSES TO DE KALB TEACHERS BY SINGLE POINT

#### Tech Leads 14-13 at Half; Rough Play Feature of the Game

#### ROBIN HIGH SCORER

Armour Tech lost a heart-breaker to the De Kalb red jackets last Thursday at De Kalb, 24-23. A rough and tumble basketball game began with the opening whistle and did not subside until the final gun.

Close guarding and constant driving for the ball resulted in many spills. Late in the first half Miran crashed into the wall after a wild dash for the elusive ball. Rutkowski was dumped several times, once alighting on his chin.

A crowd of 200 spectators watched Tech gather 14 points to De Kalb's 13 in the first half. The single point difference was a signal for the rough play that followed. Rossing plunked in a free shot. Ott with a single basket and Robin with two increased Tech's score to 21 markers. Then Jeff Rowley sunk a short push up basket for Armour's last score. Six and one half minutes from the final gun De Kalb hooped a long shot for the last point of the game; the score stood, Armour 23, De Kalb 24. The final minutes saw frequent jump ups, long basket shooting and more fouling. In the last second of play, Miran was fouled. His charity shot hit the hoop, rolled around several times, then decided to fall outside the hoop, thus preventing a tie game with the subsequent overtime period of play.

### Armour Tech to Meet Augustana

The Armour Tech basketball team will meet the Augustana team on the Armory floor next Friday at 3:30 p. m. The Eighth Regiment Armory, 35th and Giles Ave., is to be the scene of this important battle.

Augustana, which is conceded to be one of the strongest basketball teams in the Little Nineteen, will travel to Chicago from Rock Island on Friday to engage Armour for the second time this year. In the last encounter the Rock Islanders collected a large portion of the Tech scalp by virtue of a 40-29 victory.

With nearly a week's rest, Coach Krafft expects his team to present the best performance of the year. The list of casualties has been reduced to the lowest that it has been at any time this season.

Probable lineups:

Armour

- Robin, r. f.
- Simpson, l. f.
- Rossing, c.
- Miran, g.
- Rowley, g.
- Rutkowski, g.

Augustana

- Thomas, r. f.
- Chelstrom, l. f.
- Corry, c.
- Jones, g.
- Lindberg, g.

When Tech traveled to Rock Island in January a victory was insured until Robin was removed from the game with an injured shoulder. At half time the score stood 22-11 in favor of Augustana. A wild scoring orgy in the second half in which both teams scored 18 points gave the Rock Islanders the game by 11 pointers.

### PHI PI PHI WIN CAGE TITLE FOR TWELFTH TIME

#### Defeat Delta Tau Delta in Overtime Thriller 19-18

#### DELTS LEAD AT HALF

Phi Pi Phi fraternity won the interfraternity basketball championship for 1930 last week in the Armour gymnasium by defeating Delta Tau Delta in the championship game 19-18. The victor of the contest was not determined until an overtime period of five minutes had been played. The score at the end of the regulation time stood at 16 all. The Delts were able to score a single basket while the more fortunate Phi Pi's rung up a basket and a free toss in the overtime period to give them the game and the championship.

This is the twelfth time in succession that Phi Pi Phi has won the interfraternity basketball trophy. The traveling cup which is awarded to the victor each year will remain in the permanent possession of the Phi Pi's because they have already won two legs on the trophy.

Delts Lead 11-6

Confident of an easy victory, the unsuspecting Phi Pi's met an eager, fighting Delt team. The opening minutes indicated an overwhelming Delt superiority but the fast breaking Phi Pi attack could not be denied. At half time the score stood 11-6 in favor of the Delts. The final period opened with a fast and furious rushing attack. Frequent fouling and subsequent free

### Baseball Announcement

Coach Krafft announces that all pitchers and catchers who intend to try out for the 1930 Tech Varsity Baseball team are to report to Room A, 4th floor of the main building today at 11:30 a. m. Infielders and outfielders are to report at this time also.

basket shooting ultimately determined the winner of the game. As the time approached for the conclusion of the game the score was knotted at 16-16. Using offensive plays only, both teams attempted to make the score that would win the game. The final gun found the score tied, necessitating an overtime period of five minutes. A basket and a successful charity shot scored by the Phi Pi's overshadowed their opponents single basket by one point. The final score was Phi Pi Phi 19, Delta Tau Delta 18.

Barber and Pearson were the individual stars of the Delt team while Carlson with his 3 points was the high point artist of the Phi Pi's.

Phi Pi Phi—19	B.	F.T.	P.
Leichtenberg	1	0	1
Carlson	3	2	2
Stabovitz	2	2	3
Cassidy	0	0	0
Mead	0	1	2
Erland	1	0	3
	7	5	11

Delta Tau Delta—18	B.	F.T.	P.
Barber	2	0	3
Pearson	2	1	0
Cone	1	2	4
Griffin	1	2	3
Jackson	0	1	1
Beal	0	0	1
	6	6	12

### Stagg Plans Inter-Class Track Meet

The first track meet of the season, the Annual Interclass Track Meet, will be held two weeks from tomorrow at the University of Chicago. Coach A. A. Stagg, Jr., hopes to test the ability of the new men in this meet.

The Interclass Meet last year was won by the Sophomores, Class of '31, with a total of 32 points. The Juniors trailed with 17 points, the Frosh and Seniors gathered 7 and 6 points respectively.

Although the Juniors this year, will have practically all of last year's team back, they will not be able to walk away with the meet because the other classes have developed considerably. The Freshmen, the dark horses of interclass athletics, have several star performers from high school who will give the upper classmen stiff competition.

In the past the victorious class team has been awarded some special prize such as sweaters with class numerals. This year, according to Coach Stagg, the awards will

consist of medals, to be awarded to the three place winners in each event. The Interclass Championship will be determined by the places won by each class. Places scored will have the following values: first place, five points; second place, three points; third place, one point. The team which has totaled the greatest number of points according to the above grading will be declared victor of the meet with the title, Interclass Track Champions.

Coach Stagg urges track men in all events, especially the new men, to practice at least two or three times each week from now on.

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### TECH SHORTS

#### Hardest is Over Now

Happy days are here again. The finals are over. The reports are all in. Just think, nothing to worry about until next June. Well, maybe?

#### Only Four to Be Played

Since our last issue Tech has engaged in three basketball games. Two of these were with De Kalb while the other was played with Y College. The first De Kalb game was played at the Armory during the week preceding the finals. The two other games were played last week.

Next Friday Armour will play the second game with Augustana at our home floor. This contest is scheduled to begin promptly at 3:30 p. m. Give your team just a wee bit of support and our chances for victory are increased considerably.

Casualties played havoc with the Tech first squad during the last few weeks. Sickness and injuries kept the players from their best efforts. In spite of this our boys have won more games than they have lost.

#### Busy Month for Athletes

Lots of things in the athletic line are slated to occur in February. Besides Lincoln's birthday which is a holiday, Tech will finish the basketball season with a pair of home games and a pair of traveling games. The interclass track meet will blow the cover off the indoor track season on February 25. The swimmers will attempt to drown the Chicago Normal team on February 21. Tech pugs will scrap with South Chicago Y twice during the month, February 15th and 25th. Basketball has its first call today. Indoor practice for battery men will continue throughout the month.

#### Twelve in a Row

Now that the Phi Pi's have won the interfraternity basketball championship for the twelfth time things will remain quiet along the eastern front until the fraternities play their annual indoor baseball tournament early in May.

#### Wanta Play Baseball?

Today Coach W. C. Krafft, mentor of the 1929 Championship Tech Baseball team, will meet all candidates for the 1930 Armour baseball

### Boxers to Meet South Chicago 'Y'

Armour's boxing team will engage in two of the season's outstanding fights when they meet the South Chicago Y. M. C. A. team on February 15, and February 25.

The first match, scheduled for this Saturday, will be held at the South Chicago ring at 8 p. m. The match of February 25, will take place at our school gymnasium at 4:50 p. m.

This is the first time in Armour's history that the boxing team has scheduled a fight at the school. In one respect, the improvement in the boxing equipment and ring made possible such arrangement.

It may be recalled that our pugs experienced a 6-4 defeat in the hands of the South Chicago outfit last year. The outcome, although not entirely satisfactory, was considered successful. South Chicago had just defeated Bloomington Y. M. C. A., champions of the State, in a previous match. They, naturally, had not anticipated anything less than a clean cut victory. As the results indicated, they narrowly escaped defeat.

Coach Weissman is endeavoring to schedule 10 fights for this season. Among the probable contestants are Captain Buehling, Larkin, Taylor, Schlossberg, Mitchell, Donnelly, Ustryski, Whitfield, Morowitz and Sommers.

team in Room A of the main building at 11:30 a. m. If you have aspirations to play on the Armour team this is your chance to meet the coach and the players who made such a great record last year.

After four banner years as first string pitcher of the yellow and black baseball team King Simpson will finish his collegiate career as captain of the team.

#### Oh To Be Famous

In the near future we will again present an exclusive article on intercollegiate athletics by John J. Schommer. Last time John wrote for us he received quite a razzing from some of the big time column conductors in the Chicago newspapers.

A. H. J.

In the Lost and Found department this week we find eight textbooks, two pairs of gloves, and, believe it or not, a pair of pants.

# ...on the table it's SKILL!

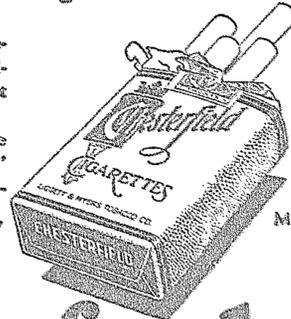


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