



## IMPROVEMENT OF E. E. ROOMS AND LABS CONTINUES

### Professor D. P. Moreton Directs Equipment Changes

#### INSTALL NEW LIGHTS

Of late the equipment and premises of the electrical engineering department have been undergoing a renovating process which promises to make these the show places of Armour Institute.

A new lease on life was recently granted to the display on the second floor, these having been scrubbed with steel wool and refinished after the necessary repairs had been made, so that now their polished and cheerful appearance is an asset instead of an aesthetic liability.

Under the supervision of Professor D. P. Moreton, a new set of lighting fixtures has been installed in the Electrical Lecture Room, replacing the set of test fixtures which were hitherto in use and which were of rather obsolete design. The new system consists of four semi-indirect, three hundred watt, single lamp units suspended by chains from the ceiling in the same places previously occupied by the combined direct and semi indirect fixtures.

Intensity of illumination on the blackboards has been considerably increased and will no doubt be appreciated by the evening classes.

Provision has also been made for remote control of the system from that corner of the room in which the projection machine is placed, thus centralizing the requisite switching at a point convenient to the operator and obviating the necessity for passing out instructions when a change of light is needed.

Similar lights have been recently installed in Science Hall, six in number to be exact. Each one contains a five hundred watt lamp, a size which was found best suited to this part of the building.

Paint is now being applied in the Electrical Lecture Room with a lavish hand and the decorative scheme will be such that it will harmonize with the laboratory on the second floor, namely a buff ceiling and upper wall, with a brown lower wall. This decoration replaces the calcimine interiors which were previously used on this and other rooms in the main building.

All additions to existing wiring in this room have been such that no conduit is in evidence, a feature which makes improved appearance.

## Initiates Announced By Alpha Chi Sigma

At a banquet held last Wednesday Alpha Chi Sigma initiated the following men:

- L. A. Kramer, '28.
- A. T. Martin, '30.
- A. H. Johannisson, '33.
- S. E. Winegar, '33.
- P. Bestler, '33.
- A. M. Ream, '33.

Professor Tibbals spoke on "The Value of Post-graduate Work." In his talk, he stressed the fact that because of the prevalent employment depression and "hard-times," some of us are given the opportunity to study post-graduate work.

The next speaker of the evening was Mr. R. E. Zinn of the Victor Chemical Works. He told the attendants that it is essential for the young chemical engineer to become acquainted with Control Work, and after a period of time, one has the choice of four fields (1) 'Control,' (2) 'Production,' (3) 'Research and (4) 'Sales'. Alpha Chi Sigma, being a professional chemical fraternity seeks to acquaint its members with the economic view of industrial chemistry.

## Make Plans for Junior Formal

Climaxing a year brilliant with achievements, the social lions of the Junior class will blossom forth Friday, May 22, at the Knickerbocker Hotel to the strains of one of the best dance bands in the country. As a fitting finish to the fun and active competition of Junior week, the one hundred couples will partake in the final social event for the year.

As has always been the case, the class of 1932 has chosen tastefully and it is believed that the Oriental room will please even the most cynical. Chairman Casey has not definitely chosen the band but has narrowed the field down to three choices and the NEWS will soon know and print the name of the selected orchestra.

An excellent menu is promised and will be served at midnight. One of the features of the room is the unique way in which the orchestra stand is built. The walls behind it are curved to successfully disperse the sound.

Bids for the dance are \$8.50 and can be secured from Chairman J. J. Casey or members of the committee who are: J. E. Bryant, J. B. Dirckers, O. G. Linnell, G. W. Schodde.

As the dance will be limited to one hundred couples, men desiring to attend are urged to place a reservation with Chairman Casey or committee members.

## Walter Hallstein '14 Heads Association

News has been received that Walter H. Hallstein, C. E., '14 has recently been elected president of the "Purchasing Agents Association of Chicago." Mr. Hallstein is employed in the capacity of Treasurer, Director and Purchasing Agent by the Ilg Electric Ventilating Company of Chicago.

After graduating from Armour, Mr. Hallstein worked in the Engineering Department of the City of Chicago for two years. In 1916 he became a salesman for the Ilg Company. In 1917 he was placed in charge of the newly organized centralized purchasing department where he was very successful. In 1928 Mr. Hallstein was selected as treasurer of the Ilg Company and now has received the office of President.

## In Which Sophomore Electricals Deprive a Brother of His Pride

The first sign of Armour's participation in the annual "Clean Up" week was seen in the locker room just outside the gymnasium last Thursday morning. But the mere facts of this case will not be sufficient to show the efforts that were put forth by the civic-minded electricals.

As might well be expected, the smartest man in the sophomore class was the instigator of the plan. But this man, Juvinall, was ably supported by Eberth, Dumsler, Clanton, Dufour, and three other men who for various and sundry reasons refused to divulge their identities.

For two months a certain breeding place for all sorts of germs, microbes, and other animals that multiply in privacy was watched by the aforementioned eight good men and true. At first they noticed only an unclean looking atmosphere about the upper lip, later a fuzzy, furry growth, and finally, thirty-one straggling, unkempt hairs.

But Wilson (Donald Gordon, if anyone doubts who is meant) by stretching his imagination from zero to infinity, stroked his forefinger first on one side and then on the other. In fact this stroking became a living source of annoyance and amusement to Professor Bibb. But here comes the clean up.

In the altruistic fashion of noble engineers, the acquaintances of the

## Lives Endangered By Parked Autos

The *Armour Tech News* has recently completed a survey to determine the possibility of bettering the parking conditions in the immediate vicinity of the school. With the coming of warmer weather, the students will be outside much of the time and will be crossing the streets frequently. When cars are parked on one or both sides of the streets, it is impossible for a pedestrian to see oncoming traffic until he is well out into the street.

As everyone knows, both sides of Federal street from Thirty-third street to Chapin Hall and at least one side of Thirty-third street from Mission to the Rock Island tracks are lined with parked cars every day, from morning until afternoon. With such congested parking conditions, it was feared that accidents would occur when students run from one building to another, their view of traffic being cut off by the numerous parked cars.

The worst danger spot of all is on Thirty-third street at the crossing from the main building to Machinery Hall.

The *News* found that all the cars parked in the vicinity of the school could be accommodated in the parking field south of the main building. If this space were used for its assigned purpose all danger to pedestrians would be obviated.

Although as yet nothing has been said by the school authorities, it is quite possible that unless the students themselves correct this fault, the officers of administration may see fit to enforce some such procedure.

## Musical Fraternity Pledges Seven Men

Pi Nu Epsilon, honorary musical fraternity, held a smoker Thursday evening, April 16, for prospective candidates. The pledging ceremony took place Thursday, April 23, at the Tau Beta Pi Rooms.

The list of pledges is headed by Dr. Howard M. Raymond, president of the Institute. The following students were also chosen to wear the pledge ribbon:

- L. J. Ferguson, Ch.E., '31.
- E. W. Carlton, E.E., '32.
- W. H. Hornberger, C.E., '32.
- T. A. McGill, E.E., '32.
- J. E. Walker, M.E., '32.
- A. H. Weston, E.E., '32.

## Purdue Meeting Attended by Two Faculty Members

Last week Professor Moreton and Professor Peebles visited Purdue University, as representatives of the Armour Institute of Technology, for the purpose of attending the Management and Personnel Conference which is held each year under the auspices of the University. The purpose of this conference is to secure a better understanding and closer cooperation between the educational institutions and the industries of the state of Indiana. Although Armour is outside of their state, nevertheless, they extended to us an invitation to have representatives present.

The speakers at the conference were men connected with Purdue University and other educational institutions of Indiana, and representatives of Indiana industry. The speakers who represented the educational institutions told of the work they are doing to train students for industry. In Purdue and other universities of the state much attention is given to personnel studies and vocational direction among the students. Their effort is to have every man preparing for the work which he can do best so as to reduce lost time after graduation. Through a careful study of the personality and aptitude of each student they can often guide him into the work for which he is best suited. Purdue believes strongly in this work as a part of their under-graduate preparation.

The men who spoke for Indiana industry stated that they are interested in the preparation for industry which the students get in the universities. They are willing to employ just as many of these graduates as possible and also offer summer employment to faculty members and under-graduates.

(Continued to page 3)

## Juvinall Is Awarded Eta Kappa Nu Prize

James W. Juvinall, with a paper on "Sunspots and Radio," has won the Eta Kappa Nu essay contest. Honorable mention is accorded S. J. Jeffery's "Television in Natural Colors," and "Direct Current Watt-Hour Meters" by M. L. Priban. All three were marked by original treatment and quality of presentation, which, according to the judges, made necessary a thorough consideration.

Every year Eta Kappa Nu sponsors this competition among the sophomore electricals to promote interest in extra-curricular study and investigation of some electrical subject. The prize for the winning essay is a copy of the "Standard Handbook for Electrical Engineers." This will be presented to Juvinall in the near future.

## Promotions Are Made In Tech News Staff

In accordance with the systematic plan for writing copy for the *Armour Tech News*, which was installed at the beginning of the semester, the following promotions have been made:

- L. G. Wilkie, C. E., '32, Copy Editor.
- J. B. Dirckers, F.P.E., '32, Assistant.
- J. W. Juvinall, E.E., '32, Assistant.

## A. I. E. E. Members See Films Friday

Due to a mistake in shipment, the films which were to be shown to the members of the A. I. E. E. last week will be run this Friday at 10:30 in Room D. Mission.

"Single Ridge" is the title of the moving picture which deals with the processes of copper wire manufacture, the drawing of the wire and the application of the insulation. The Okonite Wire Company is furnishing the films.

## Honoraries Hold Dance on Friday

Final arrangements have been made by the representatives of the various organizations sponsoring the Inter-honorary dance, and according to latest rumors its success is very evident.

The dance, which is an annual affair, will be held at the Town club of the Knickerbocker Hotel on Friday, May 1. Bob Woodruff's collegiate orchestra of nine pieces will furnish the music. The bids are \$2.50.

According to F. B. Attwood, a member of the committee, some seventy-five couples are expected to attend the dance. This is a very large number for this event, and in all probability will exceed the attendance of last year.

The honorary organizations active in promoting the dance are: Tau Beta Pi, Chi Epsilon, Pi Nu Epsilon, Pi Tau Sigma, Phi Lambda Upsilon, Eta Kappa Nu, Honor "A", Sphinx, and Salamander.

## Pledge Candidates Chosen by Sphinx

Last Wednesday night, thirteen men were pledged to Sphinx, Honorary Literary fraternity, at a smoker held at the Phi Kappa Sigma House. Each year Sphinx recognizes the men who have done outstanding work for the Armour publications and strives to reward them. The men chosen held various positions on the *News*, *Cycle* and *Engineer* and were eligible. Following the pledging the men played cards, and indulged freely in smokes, sandwiches, and ice cream.

- M. R. Beal, F. P. E.
- E. W. Carlton, E. E.
- J. J. Casey, C. E.
- F. D. Chapman, Arch.
- H. R. Davis, M. E.
- M. Fagen, E. E.
- J. R. Jackson, Jr., F. P. E.
- C. J. Jens, F. P. E.
- J. S. McCall, M. E.
- H. P. Richter, C. E.
- W. H. Rudolf, C. E.
- M. J. Schinke, E. E.
- G. W. Schodde, F. P. E.

## DR. SCHERGER SPEAKS

Dr. Scherger spoke at the Kiwanis Club in Morgan Park last week. He also presented a talk to a women's club in the loop.

## Calendar

<b>Tuesday, April 28</b>	
4:00 P. M.	Track—"Y" College vs. Armour at "Y" College.
4:30 P. M.	Orchestra Practice.
<b>Wednesday, April 29</b>	
5:00 P. M.	Glee Club Rehearsal. (Instead of Thursday)
5:00 P. M.	Interfraternity Baseball; Semi Finals.
<b>Thursday, April 30</b>	
3:00 P. M.	Baseball, Armour at Lake Forest.
5:00 P. M.	Chemical Orchestra practice.
<b>Friday, May 1</b>	
10:30 A. M.	F. P. E. Society; Science Hall.
10:30 A. M.	A. I. E. E. Motion Pictures on Copper Manufacture; D. Mission.
7:30 P. M.	A. C. S. Monthly Meeting. (City Club)
9:00 P. M.	Interhonorary Dance, (Knickerbocker Hotel)
<b>Saturday, May 2</b>	
8:30 A. M.	Golf, Faculty vs. Varsity at Evergreen Golf Course.
2:30 P. M.	Track—Second Annual Armour Outdoor Invitational at Stagg Field.
3:00 P. M.	Tennis—Armour at Lake Forest.
3:00 P. M.	Baseball—Armour at North Central.

## A. I. T. ARCHITECTS AWARDED HIGHEST HONORS IN DESIGN

### Four Armour Men Take First Three Big Prizes

#### 700 WERE ENTERED

Three prizes, two thousand, one thousand and five hundred dollars, were won by Armour men in an international architectural design contest held recently in which 200 European and 500 American architects competed.

Eugene Voita, A. I. T., '25 of 837 North Lorel Avenue won first prize. The second was awarded to Charles M. Goldman, '31 and Dave Chapman, '32 who submitted a drawing which they produced in collaboration. Howard W. Vader, Armour, '16 won the third place.

The contest, in which the problem was the design of an aesthetic water tower, was sponsored by the Chicago Bridge and Iron Works, and the judges were Mr. Cheney, president of that company, and Mr. Zimmerman of Zimmerman, Saxe, and Zimmerman, 430 North Michigan Avenue Avenue, where the drawings are now being exhibited.

Voita, the first prize winner is a night school instructor at the Art Institute and a day instructor at the Burnham Public School. He is a member of Scarab, professional architectural fraternity.

Goldman and Chapman who appropriated the second award, in a final burst of speed to have the exhibit ready for competition, worked seventy-two consecutive hours without sleep in perfecting the design. Chapman recently won a \$100 cash prize in the Passavant Hospital contest. Dave expects to use his \$500 for further study in Europe. Goldman has also won several awards or his work at the Art Institute.

Howard W. Vader, who is now richer by \$500 lives in Ravinia, Illinois. He is associated with Holabird and Root of Chicago. Vader is a member of Scarab, professional architectural fraternity.

## Glee Club Rehearses For Spring Concert

The weekly rehearsal of the Glee Club will be on Wednesday at 5 o'clock this week, instead of on Thursday because Dr. Protheroe will be conducting a concert on Thursday.

Tentative plans for the Annual Spring Concert by the Glee Club have been made. "The Song of the Western Men" by Dr. Daniel Protheroe is the latest addition to the program.

Dr. Protheroe's Welsh Male Choir is giving a concert at Orchestra Hall on May 5. Tickets will be available at the reduced rate of 75c if a sufficient number subscribe. Those interested in the concert should see John Walker, president of the Glee Club for further particulars.

The Chemical Orchestra which usually meets on Wednesday at 5 o'clock will meet on Thursday instead.

## W. W. Meissel, Speaker At F. P. E. S. Meeting

Casualty insurance will be the subject of a talk by Mr. W. W. Meissel at the F. P. E. S. meeting to be held on Friday, May 1, at 10:30, in Science Hall. Mr. Meissel will not only discuss the general character of casualty insurance, but he will also touch briefly on bond insurance, workmen's compensation insurance, and compare the rating methods of casualty to fire insurance. This is in compliance with the program set by the F. P. E. S. to secure able speakers for all branches of insurance.



# Armour Tech News

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"Private sincerity is a public welfare."  
—Byrus A. Bartol,  
Born April 30, 1813.

## Keeping Pace With the Times

Engineering practice is constantly changing to keep pace with mutable physical laws. This change, however, is always in a forward direction; always originating, either directly or indirectly, from an effort to better living conditions.

If scientific methods change, then instruction in physical science must also change. Courses, therefore, given in engineering today differ greatly in some respects from the same courses given twenty, thirty, or fifty years ago, illustrating that technical colleges try to keep in accord with the best commercial engineering practice.

The modern trend has had its effect at Armour in changing and improving the course and laboratories in electrical engineering. With these improvements the Institute may be expected to have one of the finest and most extensive electrical courses in the country. These changes are worthy of praise.

E. W. C.

## A Careless Habit

Students who go to the school lunchroom everyday and walk down the running track on the way probably do not realize that they are doing harm to anyone. For that reason they should not be criticized too severely even though their thoughtless habit may cause considerable annoyance and even injury.

The difficulty is this: the cinder track is soft and easily roughened when any considerable number of men walk on it. When the track is thus reduced to a poor condition, running on it becomes really hazardous. A turned or sprained ankle, a strained tendon, or even a broken bone may result if a runner steps in a small hole such as is made by the passage of people wearing heeled shoes.

Such an occurrence would not only be painful to the victim but would be injurious to the track team's chances for success. All such danger can be avoided easily if the students would use the sidewalk and leave the track for trackmen.

W. H. R.

We were born, let us remember, for the common good, society is just like an arch which is supported simply by the reciprocal pressure of the several stones, without which the structure must fall.

Seneca.

# "The Slipstick"

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

## FATIGUE

Left home in the morning,  
Dodged a trolley car,  
Got wet by a sprinkling cart  
Before I'd traveled far,  
Nearly got run over  
By a passing train.  
Had to step from beneath  
A capsized aeroplane.  
Motor came awhopping  
As it turned around a curve;  
Managed to get past it but  
It surely took my nerve.  
I love my work sincerely,  
There isn't any doubt:  
But getting down to do it is  
What wears a fellow out.

## OUR OWN HALF MINUTE DRAMA

Actor: "Where did you get the pink tie?"  
Actor: "How did you know it is a pink tie?"  
Now we ask you, gentle readers, how did the actor know that the actor had a pink tie; who told him that it was a pink tie or where did he develop the power of deduction. Ah-h-h, the shadow,—yes, the shadow,—he alone knows.

"Dat guy soitinly is nuts."  
"Yes, I t'ought he was a wine maker."  
"Sure, he's grape nuts."

Skiff.

Here lies the body of  
Amos Joe Mosher,  
Got out of his airplane  
To fix up a puncture.

"Is this the hosiery department?"  
"Yes," replied the weary saleslady.  
"Have you any flesh colored stockings?"  
"Yes," was the reply, "whadde ya want, pink, yellow, or black?"

—Boom R. Wrang.  
We're not sure, but we think that Boom R. Wrang expected his composition to come flying back. Better luck next time, old man.

Time was when a man "axed" a  
woman to be his wife.

Landlady: "It looks like rain."  
Boarder: "Yes, but it has a faint smell of coffee."  
—Rad.

And if you don't like the architecture of the '33  
World's Fair buildings, try an inspection trip of oil  
stations.

Teacher: "If a number of sheep is called a flock, and  
a number of cattle is called a herd, what would a number  
of camels be called?"  
Little Johnny: "A carton."

## The King Comes to Town

Being as we were on the reception committee when  
King Prajradhipok came to town last week, we were out  
in our best duds and ready to present the keys of the  
city.

As soon as he steps off the train we sez, "Well, well,  
Prajy old kid, how are yuh?" Praj was a real guy and  
answered back; "Just fine, old man, and how's  
yourself?" Well I gives him the key, which he puts  
in his key case (in which there wuz keys to all the im-  
portant cities in U. S.) and puts it back in his pocket.  
Well, I grabs him an' we takes a cab out to our home  
where me an' the king an' queen has dinner.

We gets to talkin' about Alphonso and deposed kings  
'n' such things, after the eats, and then ask Praj (he's  
a real guy), what he thinks about the Spaniards. Well  
he's kinda touchy on the subject 'n' sez, confidential  
like, that he expects to be driven out of Siam in about  
three years and has already started time payments on a  
cozy little chalet up in the Siberian Rockies.

Soon Prajy sez that he has to go. So I calls a cab  
and we get to the station in short order. Then he an'  
the wie gets on the train or N. Y., thanking us for  
the hospitality 'n' such. But we sez that it was a pleas-  
ure and that he should drop in any time he wants to,  
'n' he sez he would.

O' course it was a private visit. None of the press  
knew anything about it, but, say, Praj is a real guy.

Our watchmaker hasn't started his spring cleaning;  
he's been doing it day in and day out every day in the  
year for the last twenty years.

## THERE'S A REASON

As the soprano began to sing, little Johnnie became  
excited over the gesticulations of the conductor of the  
orchestra.

"What's the man shaking his stick at her for?"  
"Sh-sh! He's not shaking his stick at her."  
But Johnnie could not be convinced.  
"Well then what in the deuce is the hollerin' for?"  
—Bloney.

"A good time was had by all" was the unanimous  
verdict of all who went to the Frosh Informal. And  
we hope that they do just as well in the future.

—The Bongineer.

## Frosh Inspect Crane Co. Plant

Due to the influence of Mr. C. L. Larsen of the founding department, all freshmen taking founding this semester were given the privilege of visiting one of three of the largest foundries in the city.

Twenty-four diligent frosh inspected the principal departments of the Crane Co. last Thursday, April 23. After being relieved of their coats and hats, the class was led to a room where dozens of girls were making cores for the various valves and fittings in which the Crane Company specializes. After watching the girls make perfect cores in lightning-like time, some of the frosh felt sick at the thought of the hours of labor put in on about one dozen cores in the founding shop.

The group was also shown the founding room proper, where the pouring is done. This department is divided into a brass and an iron section. The students showed much interest in the way the molds were rammed up, the cores fitted, and in the endless conveyer on which the molds were poured and shaken out.

The machine shops in which the castings are machined to correct size and threaded was the next point of interest. At one machine there were seven different operations done consecutively to a brass casting, after which it came out a finished stem for a valve. There were also machines which would thread nearly a dozen fittings in the time it would take the operator to place twelve more in the machine.

The drop forge proved interesting, but very strenuous on the ear drums. Beside each forge was a double gas-heated furnace in which the stock was heated and kept hot until needed. The operator would reach into the furnace with a long handled shovel and bring out a red hot piece of stock and place it on the forge. Then with ten or twelve deafening impacts of the die the piece was forged, and the edges were trimmed off in another machine while it was still hot.

The class also went through the galvanizing room and the power plant. But due to the short time allowed for the trip everything had to be rushed, and the Armourites were forced to see in two and one half hours what would easily take a week.

## Mechanicals Inspect Inland Tire Company

As one of the series of inspection trips conducted by Professor Roesch, the Senior Mechanicals visited the Inland Tire Company, which is located at 27th and La Salle Sts., on Tuesday, April 17.

The process of manufacturing casings from fabric and rubber was clearly shown by Mr. Le John, who extended every courtesy to make the trip a success.

After the crude rubber is received, it is dried, compounded, and kneaded into massive rolls until the mass is homogeneous. These rolls are steam heated in the morning and the kneading continued. Intense heat is developed as the work progresses and it is necessary to water-cool it.

Our modern tires are of cylindrical type. The casings are built up from hollow cylinders, shaped in the mold, and vulcanized. In this process, the casings with their steel or cast iron molds are placed in a steam heated chamber.

During the vulcanization, a pressure as high as 200 lbs per sq. in. is necessary to force the rubber into every interior of the mold, which is handled by an ingenious conveyor system, designed to simplify operations.

In addition to the various inspection trips there are interesting experiments being performed in the Automotive Laboratory by the senior students. Fox, Borrowdale, Davidson and Johnson are making an electric dynamometer study of the new "Chrysler 8". Measurements are being made of the air, torque, gasoline consumption, exhaust temperatures and horsepower of this engine.

Messrs Kuehn and Trae of the Laboratory have recently put the finishing touches on a five foot "meter-prover", the steel work of which was fashioned in Forge Shop. This instrument is of the hydraulic displacement type, and is used to calibrate orifices.

## Many Schools Offer Graduate Fellowships

Fellowships ranging in value from \$2500.00 to \$110.00 per year are offered annually by leading American universities and colleges to those who are qualified for post-graduate research work. The fellowships are offered in practically every field of educational endeavor. Some are restricted to graduates of that particular institution though the majority of the awards are open to graduates of all schools of recognized standing.

Massachusetts Institute of Technology lists a traveling fellowship in architecture with a stipend of \$1500.00, and fellowships in chemical, electrical, civil and mechanical engineering with stipends ranging from \$1250.00 to \$110.00. Many of the scholarships specify that the work be carried on at the Institute, while others do not restrict the choice of the school.

The University of Illinois offers Research Graduate Assistantships at the Engineering Experiment Station at Urbana, Illinois. The appointments are for a term of two years of ten months each. One-half of the time of the assistant for this period is to be devoted to assigned duties in the Engineering Experiment Station and the other half to graduate study.

Some of the institutions excuse the recipients of fellowships from tuition fees but require the payment of the registration and all incidental fees.

Among those offering scholarships to graduate students are:

- Yale University Graduate School.
- Iowa State College.
- The University of Wisconsin.
- University of Oklahoma.
- The American and Scandinavian Foundations.
- Columbia University.
- New York University.
- Rutgers University.
- California Institute of Technology.
- Kansas State Agricultural College.
- University of Cincinnati.
- University of Alabama.
- University of Washington.
- The Ohio State University.
- Carnegie Institute of Technology.
- Charles A. Coffin Foundation.
- The Boeing School of Aeronautics.
- The Harvard Club of Chicago.
- Michigan College of Mining and Technology.

Applicants are required to submit an official transcript of academic records, letters of recommendation, a recent photograph and a statement of the nature of the proposed investigation.

These fellowships and scholarships should particularly interest this year's graduates because of the scarcity of jobs now available.

## Mechanicals Attend Lecture on Stokers

"Stokers on Boilers Less Than 200 Horsepower" was the topic of a lecture delivered to the members of the Armour Chapter of the A. S. M. E. last Friday morning, by Mr. C. T. Marsh of the Peabody Coal Company.

Mr. Marsh, who was formerly an engineer for the Combustion Engineering Corporation, illustrated the practicability of coal stokers on apartment sized heating plants. For the past thirty years, a great deal of research has been accomplished on the design of stokers for large and high-powered boilers. As a result one finds that the majority of plants are equipped with stokers.

But where the research proved successful in one respect, it failed in another. Only in post-war years has an attempt been made to design stokers for small heating plants, especially those under 200 horsepower. Recent experiments with this type have been conducted with very favorable results.

Continuing, Mr. Marsh said that the majority of these boilers use coal costing from \$7.50 to \$9.00 per ton. The stoker will enable the use of cheaper coal costing about \$5.00 per ton. Moreover, through increased efficiency the stoker would pay for itself in a short time; dirt and hand labor will be eliminated.

Mr. Marsh's lecture was illustrated.

## DIRKERS EXPRESSES THANKS

Jerome Dirkers, F.P.E., '32 wishes to express his sincere thanks for the kindness and sympathy received from his fellow students during his recent bereavement.

## ARX NEWS

Extra! Extra! The prisoners are out! Warden Beersman is having an awful time quelling this riot, but he is gradually pressing in with his posse. The lofty seniors are indulging in a Beaux-Art problem which has for the subject, "An Island Prison." As is the customary thing, an architect is supposed to get into the spirit of the problem which he is taking. Consequently, all the senior archs are "convicts," having numbers assigned to them and going under assumed names. As yet they have not gone so far as to wear black and white stripes, but I wouldn't be surprised to find them in that condition, any day now. (Don't take this literally). With the aid of Warden Beersman and Joe Wagner, the guard, I'm sure this prison will prove to be a success.

The sophomores played the seniors in a baseball game the other day, but did not get a chance to finish it. Ray Nelson, a senior, playing left field ran for a high fly and collided with Henry Sevenhouse. At first it did not seem serious, but closer examination revealed that Ray had broken a collar bone. (We will not attempt to spell nor even pronounce the medical definition).

Nelson was taken immediately to the hospital by Roy Phlac where the bone was set and braced. Ray is back in school now. Incidentally, don't ask for the baseball score from any sophomore.

## Lumber Talk Heard By W. S. E. Members

An illustrated talk on lumber and its various uses was given before the Armour branch of the W. S. E. last Wednesday at 10:30 by Mr. C. H. Brewster. Mr. Brewster spoke as a representative of the National Lumber Dealers Association which is a composite of all the local lumber dealers organizations.

A list of eight worthwhile text books on the uses of lumber for construction and decorative purposes was recommended by the speaker. Many interesting facts and figures were also disclosed during the course of the lecture, some of them not generally known.

That there are two hundred and sixteen varieties of lumber in this country was probably news to many of the listeners. Some varieties are used more than others and a chart showing this relation illustrated that soft woods, pine in particular placed first from the consumption standpoint.

Not only lumber but buildings were also classified by the association, for the information of finance and mortgage loan companies.

Mr. Brewster strongly recommended the use of stamped and graded woods explaining that the quality of such material is more dependable and the final cost is less.

At the end of the lecture those present were asked to choose from a list of fourteen pamphlets which are to be sent to them by the association at an early date.

## Chemicals Plans For Open House Exhibit

A short business meeting of the Armour Branch of the American Institute of Chemical Engineers, was held 10:30, Friday morning, April 24 in Room C, Main building.

A discussion was in order concerning the operation of the laboratories on "Open House" night. H. J. Latham, '31 and G. J. Stockman '32, were the members of the Senior and Junior Classes, respectively, elected to cooperate with Professor McCormack in supervising the exhibitions.

Plans for a smoker were formulated. At the present time, the smoker is scheduled to take place at the Sigma Kappa Delta Fraternity House on the evening of May 18th. The speaker of the evening will be Mr. C. D. Lowry, of the Universal Oil Products Corporation.

Mr. Lowry will present a talk on "Alchemy," which is a very interesting subject and has been presented several times to various renowned organizations.



**CHEMICALS SEE  
THREE REELS ON  
NITROCELLULOSE**

Nitro-cellulose proved to be a fascinating topic to those who attended the A. I. Ch. E. Meeting last Wednesday at 11:30 in Science Hall.

Three reels of film showing the manufacture of nitrated cotton from its growth to its final use, were shown. Mr. Mayfield of the Hercules Powder Company ran the film and talked informally pointing out things which needed explanation, and adding information here and there.

The cotton lint as it comes from the cotton gin must be subjected to a thorough cleaning and drying process. The cotton is shipped to the nitrating plant in bales as a snowy white, short fibered material. At the nitrating plant still more purification is necessary.

The cotton is nitrated, that is treated with nitric and sulfuric acid, and it is then dried; a very hazardous operation. The finished product is packed in steel drums with thirty percent denatured alcohol.

The various valuable uses of nitro-cellulose were illustrated by animated drawings. Its film forming character, its solubility, its toughness, strength, and durability were all illustrated. Celluloid, brushing laquers photographic films, and plastic materials are some of the products made from nitro-cellulose.

The films were furnished through the courtesy of the Brevolite Lacquer Company of North Chicago, Illinois. Comments from the students showed they were highly pleased with the discussion.

**Allen Helmick  
Held up Friday**

Three unofficial revenue agents of the dusky set picked up Allen Helmick, '33, last Tuesday evening, and in the lingo of the trade "went through him," making off with one hundred percent of the findings before Al quite realized what had happened.

Thirty-fifth street seemed the safest route from the west side to Chapin Hall, where Helmick was due at the Alpha Chi Sigma meeting. As fate would have it, a gang of negroes thought it a good place for a collection party. Equipped with razors, they attacked their man at the entrance of the alley near Federal street and carried the struggling gentleman into the alley, not without considerable protest, however. They proceeded to remove from his personage \$13.50 in cash, one Illinois Central Ticket, 2 pens, 2 pencils, and a wallet containing various necessities of a chemical, such as ten dollar breakage cards, etc.

Al testified that he felt his strength slightly inadequate to cope with the efforts of three strong men. He tried to yell, but was stopped by one of the assailants; he tried to escape as soon as his feet touched the ground, but the odds were against him.

Since this was his first experience, he was perhaps a bit nonplussed as to the future ambitious hoodlums may find a surprise in store. Al is reputed to be a shining light of the Armour Tech Rifle club and will nonchalantly turn the tables.

**Armour Represented  
at Purdue Meeting**

(Continued from page 1)

In a further effort to promote this relationship with industry, Purdue University expects all its faculty members to make as many such contacts as possible. These faculty members undertake commercial research problems for the industries and also serve them in consulting capacities. Professor Moreton and Professor Peebles found that practically all of the faculty members in the College of Engineering at Purdue are making these contacts with industry at every opportunity. The university authorities not only encourage it but even require it.

Perhaps the keynote of the entire conference was expressed by Dr. Edward C. Elliott, President of the University, who stated very concisely what Purdue is trying to do. He said, "We are trying to industrialize education and educate industry."

**REVIEWS**

**NUMBER**

**The Language of Science  
By Tobias Dantzig**

As students in a technical institution, we are exposed to a number of courses in mathematics. Our impressions are probably something like the following: it is a systematic application of fixed rules, dependent for success on our ability to recognize forms; it is free from the human element and none of its laws are subject to discrepancy; it is a well-ordered logical continuity, unfolded step by step to fortunate discoverers.

In "Number" there is quite forceful evidence to alter these impressions. You will find that the story of mathematics is thrillingly vibrant, a tale of human stumblings and gropings and failings; of chance discoveries, of bitter disappointments, of exalting conquests. Nothing makes more absorbing reading than the history of man's attempt to grasp the nature of the universe. In "Number" you will find it in really fascinating form.

Can you conceive of romance in the arithmetical operations? Dantzig tells us that not so long ago, days of elaborate work were required for the simplest of calculations; those that today can be performed in a few minutes. In the interim came the discovery of the principle of position, quite simple and like so many things, obvious after explained. But preceding this and making it possible, came the invention of the symbol "zero", conceived in India as an empty column on a counting board. The author calls it one of the greatest single achievements of the human race.

Has an algebraic expression conveyed anything of life to you? Then learn of the algebra of the Greeks which necessarily had to be expressed as words because they had no symbols! Read of the discovery of the use of letters "just yesterday" in the 16th century, a discovery which was the turning point in the history of a science thousands of years old. General relations comprehensible to only a few thus became understandable to vast numbers and an immeasurable step forward was made.

And the irrational number? Its advent undermined a religion and ruined a philosophy! The Pythagoreans had built up an elaborate system of number worship that to them was beautiful and infallible. Then, like a lightning bolt came the discovery that the diagonal of a square was incommensurable with its side, that the number expressing it was not an integer. Fearing the wrath of God at the uncovering of this imperfection in Nature, those aware of it formed an order, the Alagon, under solemn oath to keep their existence undivulged. However, the Pythagoreans were lost.

Who cooked up this infinity idea and why? Where did that familiar "lay eight" come from? The story is a wonderful one: beginning with the realization of a "last number" belonging to the gods. This was the keynote of most ancient religions. The thread is dropped, to be taken up in the 17th century by Cantor, Gauss, and Galileo, who attempted its anatomy and precipitated an argument which raged for years, becoming the fundamental issue of the science of number.

"Number" presents the science of mathematics in what to most of us is an entirely new setting; a background of humanism. The greater portion of the text is easily understandable but some sections will require study. These are few, however and may be handled with no special difficulty. I strongly recommend reading this book. Its cultural attributes are enhanced by unusual treatment which makes an intensely interesting entity.

Morton Fagen.

**ALUMNI NOTES**

J. E. Tarman Ch. E. '30, visited Armour Institute recently. He is employed in the research department of Armour and Company along with C. E. Morris Ch. E. '30.

C. Kley Miller '25, has a daughter 4 months old. He is selling insurance for Miller, Castle and Freiberg.

**Swimming Team  
Elects Captain**

Congregating for the last official time this year, the 1931 swimming team elected Andrew Weston to captain the 1932 squad. Weston shaded out Cavanagh in an exceedingly close race. Andy was high point man this season and has always been a consistent point winner. He specializes in the 220-yard-free-style and the 100-yard backstroke events. Incidentally he is the holder of two school records. The captain-elect has been a member of the squad for three seasons, winning a letter for each season.

On recommendation from Coach McGillivray, the following men were accepted by the Athletic Board as being eligible to receive letters. The customary minor letters will be given A. Weston, J. Cavanagh, and E. Byanskas. Giovan will be awarded a sweater.

Because of his stellar performances during his stay on the squad, ex-Capt. Knox will be awarded a major letter. Knox is graduating this year and was recommended by Coach McGillivray as being worthy of the major award.

With the exception of Knox, the team's roster will remain intact next season and therefore will be expected to display its usual winning qualities.

**Rifle Club Competes  
With State Experts**

Last Saturday night the Armour Tech Rifle Club met its hardest competition of the season in the team shoot of the Illinois Rifle Association. This shoot was held at the Outdoor Meet at the Palmer House.

It is considered a very important meet and as some excellent teams are entered every year, a team has to be above average to win a place. A trophy is awarded to the team that has the highest score and medals are given to the members of the first, second, and third teams. The results of this meet were not at hand at the time of this writing but the Armour boys should have a set of medals and have a good chance to win the trophy.

Last Thursday night, the individual shoot was held. Donald G. Wilson was the entrant from the Armour Club, but was beaten out of third place by two points.

On the 30th of this month the Rifle Club will shoot against the Humboldt Park Gun Club at their range. The Armour boys are expected to win this easily.

**Fire Protects Visit  
Large Can Factory**

America's largest can manufacturing plant was inspected by the Senior Fire Protects on their inspection trip last Friday.

Large cans, small cans, thin cans, fat cans, tall cans, short cans are all made in this plant located at Klyburn and Willow.

The tin and sheet steel is introduced into the factory and is cut to size for the cans. It is then pressed into a cylindrical shape and put together by a pressing machine. The top is made but not put on the can until they are filled at the cannery.

A special part of the plant is devoted to the plating of the insides of the cans to permit their use as containers of food. This is necessary because canned food eats away the iron and forms a very poisonous substance.

The seeds of some fruits sometime sprout in the can and form a gas which reacts with the can if not coated with tin or some other metal. Therefore, it is vitally important to the canning industry that the cans be coated. This is accomplished by running the cans through an electroplating machine or by coating by means of an acid reaction. Sometimes it is necessary to coat the cans with some special alloy in order to preserve the contents of the can.

The American Can Company have an extensive chemical laboratory where they are constantly testing their cans for acidic reaction and to make sure they are safe for food, as well as various other products.

About twenty Fire Protects went on the trip, led by Professor Holmes.

**New Books**

**NON-TECHNICAL**  
This Thing Called Broadcasting  
Alfred Goldsmith

The Engineer  
J. H. Hammond

Education of a Princess  
Marie. Grandduchess of Russia

**TECHNICAL**  
Our Mobile Earth  
R. A. Daly

Principles of Engineering  
Thermodynamics  
Kiefer & Stuart

Internal Combustion Engines  
J. A. Polson

Structure of Line Spectra  
Pauling & Goudsmit

**Doctor Freudenberg  
Will Address Chemists**

The subject of the regular monthly meeting of the American Chemical Society to be held Friday, May 1 at the City Club is one which will be of unusual interest to chemists because they have studied it in considerable detail in organic chemistry. "Optical Activity and Configuration" is the title of the lecture to be given by Karl Johann Freudenberg, Ph.D., Professor of Chemistry at the University of Heidelberg.

In addition to the main lecture which begins at 7:30, there will be the usual group meetings at 8:45. Among them are "Glass Blowing Technique", a film to be shown to the Physico-Chemical Group, and "The Structure of Gelatinous Precipitates" to be spoken on by J. R. Bayliss to the Inorganic and Analytical Group.

**FRATERNITY NOTES**

**PHI KAPPA SIGMA**

The annual Father and Son banquet that is to be held May 8, will be conducted on a somewhat different plan this year. It will include an inspection of the lighting display of the Chicago Lighting Institute in the Civic Opera building preceding a buffet supper. The Northwestern and Chicago chapters are included with the local chapter.

**DELTA TAU DELTA**

Frank Davis and L. Packer Brown visited us and extended congratulations on the approaching thirtieth birthday of the chapter.

**TRIANGLE**

Brothers Windbigler and Venema were elected to represent us at the Twenty-Second Annual National Convention which is to be held this Thursday, Friday, and Saturday, at the Edgewater Beach Hotel.

The chapter as a body attended the funeral of our honorary Brother Alfred E. Phillips, whose death was a blow to our fraternity as well as to the Institute.

Marsh Whitfield '30, has been awarded his chemical engineering degree from Columbia University within a year after graduation from Armour.

S. K. D. has been challenged to a ping pong match which will be played within a week. The Truss Club was defeated by a score of 4 to 1 in a baseball game with the Triangles.

**SIGMA KAPPA DELTA**

Hard Times showed its effect at the annual Sigma Kappa Delta Hard Time party held Saturday, April 18. This year the other fraternities at Armour were invited to attend, nearly every one being represented. The music was furnished by Bob Woodruff and his snappy orchestra. These fellows as well as the other merry-makers, were dressed to suit the occasion. The costumes ranged from doll to housekeeper's outfits for the ladies, while the men represented themselves in varying fashions—from farmers to milkmen.

Eugene Voita, an alumnus architect, has received first honor in the international contest sponsored by the Chicago Bridge and Iron Works Company.

Phil Deiwert '28, is back with us again after a brief visit to Indianapolis.

**Faculty and Varsity  
To Compete in Golf**

The faculty will engage the Armour Varsity golf team in a match next Saturday. This is an annual affair in which the Professors usually display a great deal of skill.

Last year's contest shows a defeat for the Varsity which they will be out to avenge. Evergreen Country Club will be the host.

Advance information shows that the following men will represent the faculty: Bibb, Huntley, Ensz, Allison, Heald, Sear, Leigh, and Grafton. Varsity honors will be upheld by Captain Weis, Johannisson, Pearson, Ollison, Wyant, and Weldon.

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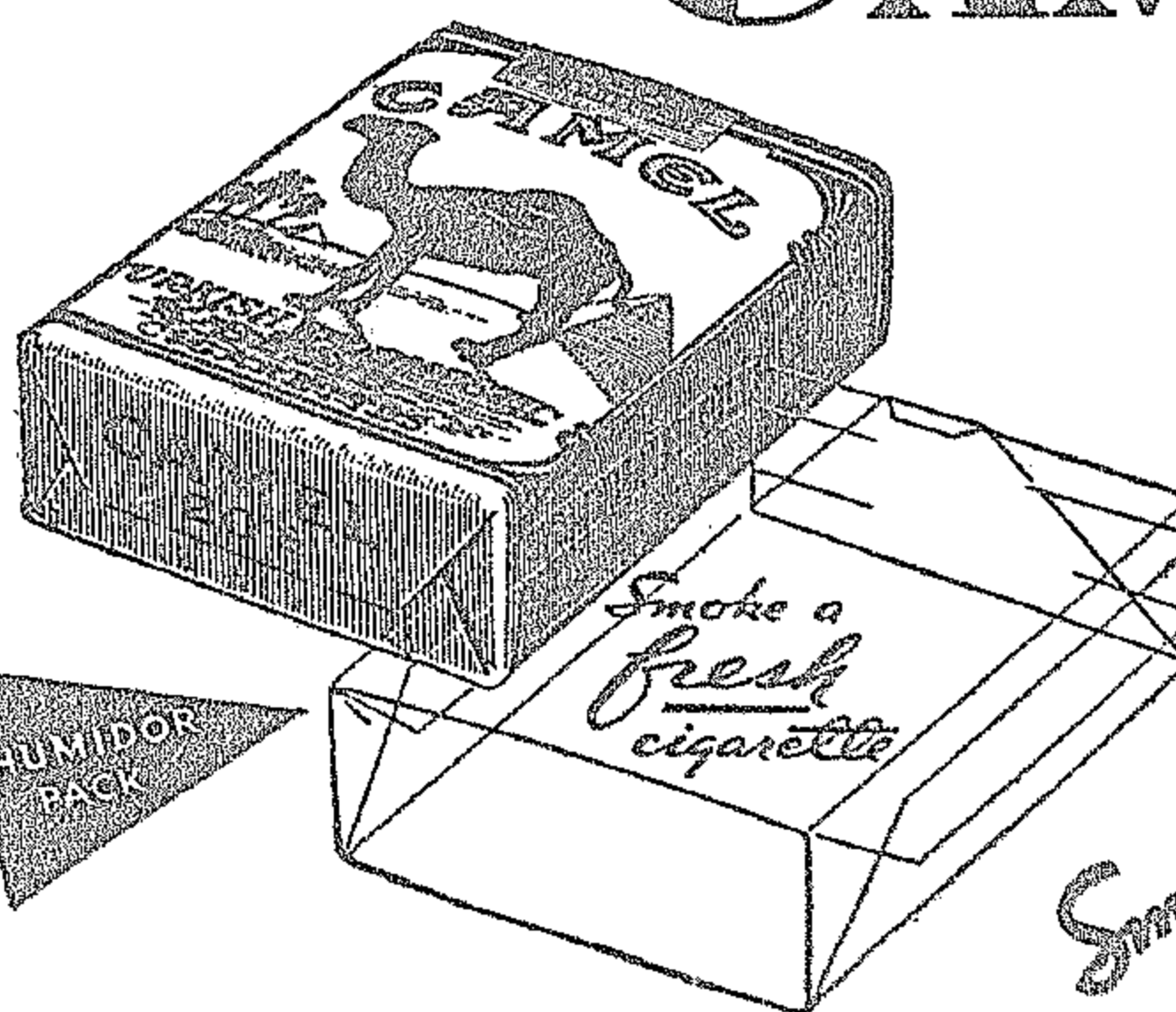
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burn the throat. Thanks to our patented vacuum cleaning apparatus and the new Humidor Pack everybody, everywhere, can enjoy the Camel blend of fine Turkish and mellow Domestic tobaccos in prime, fresh condition.

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**CAMELS**



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# MANY SCHOOLS TO COMPETE IN ARMOUR'S SECOND ANNUAL TRACK MEET AT STAGG FIELD

### Teams From Universities Throughout Middle West Will be Represented

#### OLD RECORDS MAY BE BROKEN

On Saturday, May 2, at 2:30 P. M., Stagg Field will be the scene of the Second Annual Armour Outdoor Invitational Track Meet.

This meet will bring together some 300 rampant young men from various colleges and universities throughout the Middle West who will run, jump and throw things for the glory of their several Alma Maters. At least 20 institutions of higher learning are expected to be represented.

The University of Chicago, Loyola, Crane, Chicago Normal, Lake Forest, Mooseheart, Wheaton, Marquette, Beloit, "Y" College, North Central, Concordia, Knox, and Elmhurst have already signified their intentions of competing and several more schools will, no doubt, be on hand when the starter's gun booms for the first race. Invitations have also been sent to Butler, De Paul, North Park, Wisconsin State Teachers, Illinois State Teachers, Morton, and James Milliken.

#### Records Will Be Broken

Judging from past performances many fast times should be turned in and it would not be at all surprising if many old records were broken and discarded.

And while we're on the subject of records let's consider some of the present records and their holders. The most interesting record, to Armour students, is Don Paul's mark of 46 feet 10 1/2 inches in the shot. While not the most outstanding of the records created last year, perhaps, this mark should stand for some time.

#### Taylor Expected to Compete

Then there is the record of 9.7 seconds hung up last year by Taylor of Knox College in the 100 yard dash. He will be back this year to look after his record and to better it if possible.

Dale Letts of Chicago University last year stepped a quarter mile in 49.4 seconds. Letts probably will not compete this year.

So with only one of last year's three outstanding champions back to defend their laurels the meet this year should develop a lot of hard competition.

Armour at the present time has no record holders in school but with the team flashing real form and strength since the opening of the outdoor season three weeks ago Armour should be able to give any team a strong run for points.

#### Men In Good Condition

Cap't. James, Sademan, Nelson, and Iversen make up as good a quartet of distance runners as is usually found on one team. These men are all in excellent condition at the present time.

Cap't. Fox, A. Jens, and Hirsch will hold up Armour's prestige in the shorter dashes and Nelson will give a good account of himself in the hurdle race.

C. Jens, Manson, Cordes, and Hendricks will take good care of the weights and the javelin.

Armour finished seventh in the team standings last year but with all the old men in good form and assisted by Nelson and Manson they should do much better this year.

#### SENIOR CHEMICALS WIN

Two clashes between the Junior and Senior Chemicals last week proved the Seniors to be the better indoor baseball players. The challengers (Juniors) were defeated 24 to 6 and 11 to 4.

Four pitchers for the Juniors were unable to compete with L. V. Melcarek who pitched both games for the Seniors. A good display of teamwork, made by the Seniors who were handicapped by never having played as a group before, enabled them to defeat the Junior Schmiers easily.

## Phi Pi Phi and Kappa Delta Tau Win Ball Games

The Phi Pi Phi's opened the interfraternity season by defeating Rho Delta Rho, 9 to 2. It was a bad day for baseball because of the cold weather. The game was featured by snappy playing, the pitchers allowing few hits, and the infields backing them. Ott held his opponents to two runs, repeating his victory of last year when he held the Triangles to the same score. D'Alba, of the losers, made a freak double play unassisted.

**Phi Pi Phi—9**  
Meade, l.f.  
Owens, ss.  
Grundstrom, 1b.  
Finerud, 2b.  
Leichtenberg, 3b.  
Lynch, c.f.  
Simpson, r.f.  
Hartbauer, ss.  
Ott, p.  
Carlson, c.

**Rho Delta Rho—2**  
D'Alba, ss.  
Fishman, 1b.  
Cohen, 2b.  
Morowitz, 3b.  
Anders, c.f.  
Cannell, l.f.  
Goldstein, r.f.  
Feinberg, ss.  
Melevsky, p.  
Meyer, c.

Kappa Delta Tau vanquished Sigma Alpha Mu by the score of 11 to 7, with Tuchinsky pitching for the victors. They took the lead in the first inning, and kept adding two and three runs in every inning but the third. Sigma Alpha Mu strove valiantly to keep up, but the absence of one player handicapped them considerably. The pitchers were hit freely because of poor support, but by tightening up in the pinches, the score was kept down.

**Kappa Delta Tau—11**  
Krause, ss.  
Field, 2b.  
Rosenfeld, 3b.  
Goldman, 3b.  
Berger, r.f.  
Glazer, c.f.  
Wise, l.f.  
Tuchinsky, p.  
Rosenthal, c.

**Sigma Alpha Mu—7**  
Stahn, 1b.  
Wingrand, 2b.  
Edelman, 3b.  
Auerbach, l.f.  
Barnett, c.f.  
Poriss, r.f.  
Hoffberg, p.  
Morris, c.

## Fraternities to Meet In Tennis Tournament

The opening day for the interfraternity tennis has been set for May 6. On that date two games will be played. Each team will play three matches, two singles and one double. The winner of two out of the three is to be considered the victor.

On the days of contest play: May 6, 7, 12, 18, and 28, the Armour courts will be reserved from 3:00 P. M. on for the sole use of scheduled tournament games. The games must be played on the above dates according to the schedule, for these are the only times the courts can be reserved. In the event of bad weather, the contestants will be obliged to see Professor Colvert and arrange for new dates.

#### Inter-fraternity Tennis

**May 6**  
1. Kappa Delta Tau vs. Phi Kappa Sigma.  
2. Sigma Kappa Delta vs. Delta Tau Delta.

**May 7**  
3. Rho Delta Rho vs. Theta Xi.  
4. Beta Psi vs. Phi Pi Phi.

**May 12**  
5. Triangle vs. winner of match 1.  
6. Sigma Alpha Mu vs. winner of match 2.

**May 18**  
Semi-finals  
7. Winner of match 5 vs. winner of match 3.  
8. Winner of match 6 vs. winner of match 4.

**May 28**  
Finals  
9. Winner of match 7 vs. winner of match 8.

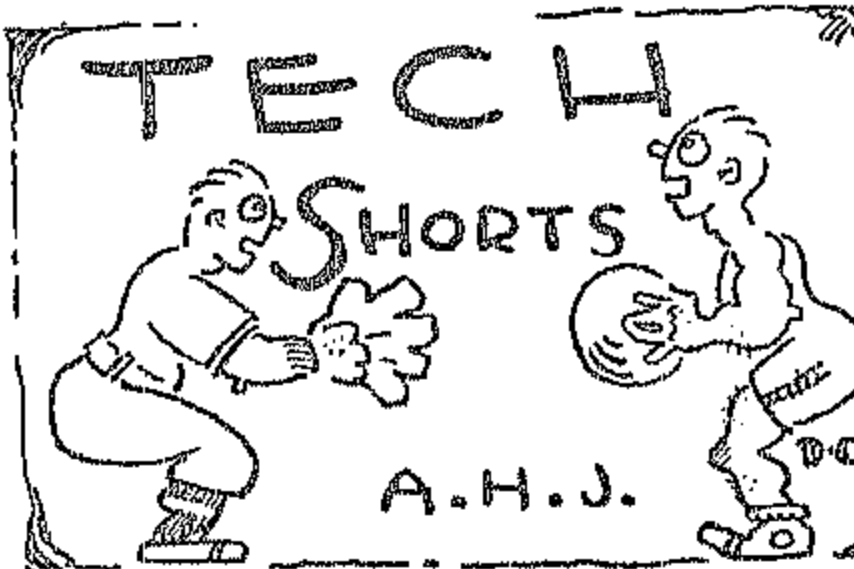
against Lake Forest while Lynch may face Naperville.

Moskowitz, Sommers, Mago and Omiecinski have added some punch to Armour's offensive power and are looked on to continue their effectiveness. Massier is again the probable choice for North Central's mound duties. His work against Armour in the last game was quite baffling and is sure to stimulate considerable trouble in the coming game. Orth, has been announced as the logical pitcher against Armour in the Lake Forest game.

By use of green mohair with unusual sheen, a Chicago movies palace has made its seats "visible in the dark."

Log rafts on the west coast of Alaska contains up to 1,100,000 feet of logs each.

The University of Southern California, a Methodist institution, was founded by a Catholic, a Jew, and an Episcopalian.



#### Big Week of Wins

Tech enjoyed a rather successful week in sport when the varsity baseballers won two games and the track team won two meets.

In the track meets the varsity scored a total of 160 points while the opponents gathered 86. Although Armour scored slams in several events a general team strength was shown in all events. Chicago Normal was showered with 12 firsts out of a possible 14. Crane came next and were swamped by a 71-50 score. In the latter meet, where the competition was more severe, better times were made in most of the running events. The Ogden Field track is anything but helpful for record breaking performances. However, as the season advances, the track will be put in better condition.

#### "Y" College Today

This afternoon varsity trackmen meet "Y" College at "Y" field. Last year "Y" nosed out Tech by the slim margin of seven points. What the physical ed. boys have this year we wonder?

On May 2nd the Second Annual Outdoor Invitational Track Meet is to be held at Stagg Field.

Old man cold weather caused the baseball game with Lake Forest to be postponed until later in the season. The game was scheduled to be played at Lake Forest last Wednesday.

Western State played at Ogden Field on Friday, and yesterday, the postponed Morton game was played. The outcome of these games was not known at the time of this writing.

#### Awards to H<sub>2</sub>O Men

Awards have been recommended for the 1931 swimming team. According to inside dope one man has been awarded a major letter.

The tennis tournament has been advancing rapidly. Several men have already reached the third bracket.

Varsity tennis will open the season with the Lake Forest match on May 2.

Weather conditions have allowed golf to complete the spring tournament in several weeks and has permitted the playing of several dual matches. The schedule calls for a dual meet with the faculty within the next few weeks. This should prove interesting for it is the one time when the students might become one up on the faculty.

#### Sing, Song, Sang

Interfraternity sports always create interest on the Armour campus. The rivalry is intense and often the cry is down with so and so. Perhaps the most unusual of these competitions is the interfraternity sing which is held in conjunction with the Spring Concert. At that time the boys attempt to work as one unit. Some are successful, while others come very close.

Indoor baseball, golf, and tennis championship cups are trying to find places to rest for the coming year. These tournaments have not advanced far enough to predict to whom each of the above will be given.

#### FRESHMEN PLAY INDOOR

The crucial baseball game between the Freshman Civil and Chemical students was won by the latter 20-18, in a game crowded with spectacular catches and comical errors. If Coach Krafft needs to sign up any "two-base" men, it is only necessary to see the respective managers for a couple of their players. These hefties belted home runs over the fence with a soft indoor.

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## ARMOUR BASEBALL NINE LOSES TO WESTERN STATE

### Eighth Inning Rally Fatal to Home Team

#### FIRST DEFEAT

An eighth inning rally, netting Western State Normal three runs, spelled defeat for Armour in the 6-3 conflict staged last Friday. Up until that devastating inning Armour and the visitors were knotted 3-3. Each team had collected six hits and each featured with timely hitting and good pitching.

That eighth inning rally incidentally resulted in the first defeat that Armour has suffered this season and the only defeat that Stehno has received in the last three years.

Captain Robin's collection of three hits, one a double, together with Omiecinski's home run over the deep center field fence served as an important factor in Armour's struggle for victory. Although Stehno allowed eleven hits, his collection of eight strikeouts in the crucial moments helped to prevent many of these hits from becoming runs. His two successive strikeouts in the seventh inning while bases were full showed that his pitching was up to standard.

#### First Inning

Woods popped to Moskowitz. Decker followed with a pop fly to Mago and Denner retired via the strikeout route. NO RUNS, NO HITS.

Moskowitz flied to short. Pepe received a free pass to first but was caught between second and third after Robin singled. Mago followed Robin and hammered the ball over the right field fence, scoring Robin with the first run. Stehno grounded out to first base for the third out. ONE RUN, TWO HITS.

#### Second Inning

Stehno struck out Thomas, walked Cooper, and then struck out Bailey for the second out. A double to Federal Street by Johnson scored Cooper. Phelps was retired with a strikeout to end the inning. ONE RUN, ONE HIT.

Michalski fanned, Omiecinski pounded the sphere for a home run while Sommers grounded out to third base. Link took three cuts at the atmosphere to retire the side. ONE RUN, ONE HIT.

#### Third Inning

Black doubled. Woods grounded to Robin. Decker singled, then advanced to second on a fielder's choice and scored on Thomas' smashing double to Machinery Hall. Cooper popped to Pepe. THREE HITS, TWO RUNS.

Moskowitz struck out. Pepe popped to third. Robin singled. Mago was retired-shortstop to second. ONE HIT, NO RUNS.

#### Fourth Inning

Bailey popped to Mago. Johnson grounded to Omiecinski and was followed by Phelps who struck out. NO RUNS, NO HITS.

Stehno sent a fly ball to Johnson. Michalski fanned for the second time. Omiecinski fouled to Denner. NO RUNS, NO HITS.

#### Fifth Inning

Woods and Black grounded out, while Decker flied to Pepe. NO RUNS, NO HITS.

Moskowitz hit to short, Sommers struck out while Link flied to third. NO RUNS, NO HITS.

#### Sixth Inning

Denner and Thomas singled. Cooper hit to Stehno, who in turn figured in a double play which put out Denner and Cooper. Bailey was retired on a ground ball to short. TWO HITS, NO RUNS.

## Armour to Meet Y.M.C.A. College

This afternoon the Chicago Y. M. C. A. College will furnish the opposition to the Armour Tech track team. If our men can win this meet they will have downed all opposition so far.

In the previous meets they have met Crane College and Chicago Normal and easily defeated them by running up scores of 71-50 and 89-36.

Last year when Armour and Chicago "Y" met, the "Y" team came out victorious after a hotly contested meet, winning by a score of 62-55. But with our team burning up the cinders as they have done lately, Armour should avenge its defeat of last year.

Art Jens, Fox and James are back to repeat their victories against the "Y" team this year, in their respective specialties, the dashes and the half mile, the mile and the 2 mile runs. Then with the addition of Nelson, a freshman, and incidentally the high point man, to take care of the hurdles, the broad jump, and the high jump, and with C. Jens throwing the shot put, Cunningham pole vaulting, Manson throwing the discus and Cordes the javelin, Armour will furnish a team hard to beat.

It may be interesting to note that in the previous meets, out of a possible 28 first places, Armour has taken 21. If they will only keep this up there will certainly be a championship track team around these parts.

Pepe led off with a strikeout. Robin received his third hit by clouting a double. Mago flied to right field. Stehno doubled to score Robin. The inning ended when Grundstrom, batting for Michalski, grounded to Bailey. TWO HITS, ONE RUN.

#### Seventh Inning

Johnson grounded out. Phelps and Black each received hits. Mago fumbled Wood's pop fly causing bases to be filled. Stehno then struck out the next two batsmen. TWO HITS, NO RUNS.

Omiecinski and Link flied out while Sommers went out with three strikes. NO RUNS, NO HITS.

#### Eighth Inning

Thomas doubled. Cooper grounded out. Bailey was sent to first on a wild pitch. Johnson and Phelps collected hits. THREE RUNS, THREE HITS.

Moskowitz struck out. Pepe hit a single. Robin and Mago were retired on ground balls. ONE HIT, NO RUNS.

#### Ninth Inning

Woods struck out. Decker and Denner grounded out. NO RUNS, NO HITS.

Stehno and O'Connor each grounded out to the second baseman while Omiecinski flied to left field to end the ball game.

#### Armour—3

	ab	r	h	p	a
Moskowitz, s.s.	4	0	2	5	
Pepe, rf	3	0	1	2	0
Robin, 1b	4	2	3	9	2
Mago, 3b	4	0	1	3	0
Stehno, p	4	0	1	3	3
Michalski, lf	2	0	0	0	0
Grundstrom, cf	1	0	0	0	0
O'Connor, lf	1	0	0	0	0
Omiecinski, 2b	4	1	1	0	3
Sommers, cf	3	0	0	0	0
Link, c	3	0	0	8	0

#### Western State—6

	ab	r	h	p	a
Woods, 2b	5	0	0	2	2
Decker, cf	5	1	1	0	0
Denner, 3b	5	0	1	4	1
Thomas, c	4	1	2	6	0
Cooper, 1b	3	1	0	9	0
Bailey, ss	3	1	0	2	4
Johnson, lf	4	1	2	2	0
Phelps, rf	4	0	2	1	0
Black, p	4	1	2	1	0

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