



## JINX STILL HOT ON TRAIL OF ONE MAYNARD VENEMA

### Senior Chemical Tries Hand at Mural Decorating

#### REACTION GOES AWRY

Maynard Venema has again revealed those hitherto unsounded depths of technique which won for him the unanimous election to the exalted ranks of Schmier-Chemiker last week.

While it is discouraging to view this concentration of talent in one individual, a man who can repeat that which others can hope to do only once, his cloud is one which has a silver lining. If any doubt existed about Venema's eligibility for last week's award, the sulfonation affair of last Monday has removed any forebodings.

Speaking of clouds, however, at once brings memories of the Industrial Lab ceiling. Painting a cloud is something of an accomplishment for even the most skillful artist; painting a cloud on a ceiling must be harder yet. Venema claims that it takes practically no time and very little effort. Anybody who can point to his achievement with justifiable pride the way he can, is entitled to speak with authority, for his is truly the work of a master.

Of course, this sort of thing can be overdone, especially in view of the high costs of interior decoration, since chemicals, unlike oil paints, have the unhappy faculty of changing color with time. For this, and other reasons, the appearance of more and bigger clouds on laboratory ceilings may be frowned upon by the custodian of the bankroll.

On this account we suggest that future aspirants to the exalted brotherhood refrain from such violent and colorful demonstrations to prove their worth.

After all, a cloud of smoke or a minor blaze is just as full of possibilities for excitement and under the right conditions, easier on the surroundings.

Ratner, who also won the cherished honor last week, seems to be highly exhausted from his efforts and is at present recovering from that tired feeling by seizing judicious and very beneficial naps in Professor Carpenter's metallurgy class.

### Professor Bibb Is Rapidly Recovering

Professor Bibb, of the mathematics department, underwent a thyroid gland operation on Monday, October 26.

He has been absent from school because of illness since the beginning of the semester, but is showing rapid recovery after the operation. Anyone who wishes to see him and cheer him up will find him convalescing at the Woodlawn Hospital, Sixty-first Street and Drexel Boulevard.

It is hoped that he will recover sufficiently to return to school and resume his teaching some time before Christmas.

### Bell Representative To Speak Here Friday

Through the courtesy of the Illinois Bell Telephone company, a representative of the American Telephone and Telegraph company has been obtained to speak at the meeting of the Armour branch of the A. I. E. E. to be held Friday at 10:20 in D-Mission.

The intricacies of the telephoto system will be explained in the talk. The name telephoto applies to the transmission of photographs by wire, and the service includes also the sending and receiving of facsimiles of such things as important documents, checks, fingerprints, and photographs.

## Chemicals Visit New Coke Plant

An inspection trip to the Coke plant of the Youngstown Sheet and Tube Company at East Chicago, Indiana, occupied the afternoon for the senior chemicals last Tuesday, October 27.

In the process of obtaining coke from coal, numerous other industrial products are obtained, such as coal gas, ammonia, benzol, toluol, creosote, and pitch. The coke is manufactured for use in the main plant where iron is obtained from its ores.

The most impressive sight on the trip was the large and powerful elevator, which lifts a car containing 100 tons of coal every three and one-half minutes and dumps the coal into large bins.

This coal is taken to the distilleries where all volatile matter is removed. The four fractions obtained from the first distillation are coke, coal tar, coal gas, and ammonia liquor.

The latter three fractions are broken up into the constituent chemicals. Creosote and pitch are obtained from the coal tar, phenol and ammonia from the ammonia liquor, and phenol and toluol from the coal gas. The waste heat from the ovens is used in the distillation of the coal tar.

A new plant has been installed recently to recover the chemicals present in the ammonia liquor.

## Ogden Avenue Bridge Inspected by Civils

The Ogden Avenue Improvement was the scene of an inspection trip by the Senior, Junior and Sophomore Civil students last Friday.

The students met at Division and Halsted streets at 1:00 P. M. Professors Wells, Ensz, Grafton, and Jacobson were the faculty members that were present.

The Improvement is being constructed by the Ogden Avenue Construction Company. Mr. Langdon C. Hardwicke, who is Superintendent of Construction, graduated in the Civil Department of Armour in 1924.

The portion of the Ogden Avenue Improvement now being constructed forms the last link in the improvement and connects up the two completed portions which extend from Lincoln Park at Clark and Center Streets to Division and Halsted Streets and from Randolph Street to Chicago Avenue. This portion is two-thirds of a mile in length and extends from the right-of-way line of the Chicago and North Western R. R. to the west street line of Rees Street. It will eliminate two street car crossings, the grade crossing of thirteen railroad tracks; separate the traffic on Ogden Avenue from that on North Halsted Street and through-routing Ogden Avenue through one of the busiest industrial sections of the city.

The improvement crosses the North Branch of the Chicago River by means of a two-leaf trunnion bascule bridge. In designing this bridge it was necessary to use three railing height trusses in each leaf, thereby permitting a reduction in the depth of the floor beams. This reduction was necessary in order to

(Continued on page 2)

## Professor Spears Lectures to W. S. E.

A meeting of the Western Society of Engineers was held last Friday at 10:30 a. m., in B. Mission.

Professor Spears delivered the lecture. His topic concerned the building of a hanger for the "Akron," the navy's newest and largest dirigible.

Because of the great size of the dirigible, some interesting problems in the design and construction of the hanger were encountered. The hanger is built up of parabolic arches. In the preliminary construction the three-hinged arch is employed but it is finally built up into an arch of two hinges by the introduction of permanent upper and lower chord members at the top hinge.

## PROFESSOR ROESCH MAKES TESTS ON NEW INSTRUMENT

A new device for determining the completeness of combustion in gas engines is now on exhibition in the Automotive Laboratory and is being tried by Professor Roesch and his senior mechanicals. This indicator, developed in the last two years, is called the Casam-instrument. It has already been put to good use by Captain Hawks in some of his recent record-breaking flights. Its merit lies in its permitting the most economical setting of the carburetor by observing when the combustion efficiency approaches 100 per cent.

Briefly, this efficiency is determined by passing a sample of the exhaust gases, mixed with a considerable amount of air, over the two arms of a Wheatstone Bridge. One of these arms is arranged to act as a catalyst to cause the unburnt gases to burn at a lower temperature. The additional heat produced renders an unbalanced circuit in the Wheatstone Bridge thereby deflecting a galvanometer.

When there is no combustible material in the exhaust gases, the two arms of the bridge are equally heated and the scale of the galvanometer is marked 100 per cent. Most gas engines, however, show some unburnt or partially burnt gases in the exhaust such as CO, CH<sub>4</sub>, and other hydrocarbons unless mixtures are so lean that starting is difficult.

Practical ratings for automobile engines are 85 per cent combustion efficiency as indicated by this instrument. Captain Hawks was able to adjust the carburetor from the pilot seat and so maintain the heat mileage or maximum power from the gasoline.

## See Water Softening and Treating Plant

As one of a series of inspection trips planned by Professor Bentley, the junior chemicals visited the Hinsdale Water Softening Plant last Thursday, October 22, from 2:00 to 4:00 P. M.

This plant, which is one of the most up to date water treating plants in the United States, was finished in 1925. It was completed in a year and one half at a cost of 175,000 dollars.

The region including and surrounding Hinsdale abounds in limestone deposits, and hence the well water is very hard. This water caused trouble in steam generating plants, such as are in most homes, by the precipitation of various dissolved chemicals which clogged up pipes and reduced the efficiency of boilers. These troubles are eliminated by the present water softening plant.

The efficiency of the plant is unquestionably high in the matter of removing undesirable chemicals.

It is properly spoken of throughout the country as the "one man plant." W. P. Case is in charge of all operations, his official titles being Foreman, Chemist, Head of Maintenance Department, etc.

The only operation in the treatment

(Continued on page 3)

## Christmas Concert Program Planned

At the last meeting of the Glee Club the newly elected officers assumed their duties in full force.

As an inspiration to the more or less irregular members, the fact might be mentioned that the director, Dr. Protheroe, has been late for rehearsal only once in his six or seven years of service. This noteworthy event occurred last week, when he was five minutes late for rehearsal.

The probable date of the winter concert is set for about December 17th. Among the numbers sung at this time will be: "The Song of the Jolly Roger", "A Song of Ships", "Jolly Fellows", and "A Little Close Harmony".

## Warther Display of Models Here

Dean John C. Penn has recommended seeing the Warther Collection that is now on exhibition at the Sherman Hotel. The collection consists of every model of locomotive from the very first to the latest type of heavy mountain design. Ebony, ivory, and abalone shell were used in the carving of these unusual models.

Ernest Warther, an American of Swiss descent, made the locomotives from sketches and blueprints that he was able to procure.

Many of the models that are usually seen at exhibits of this nature are merely models from the standpoint of appearance. Those in this collection however, are true in every detail, even down to the tiny bolts and nuts which have actual threads and screwdriver slots.

All movable parts on the originals have been made movable in the models. This results in giving the exhibits a very finished and realistic appearance. Since the parts were made to specifications taken from scale drawings, all proportions have been preserved to a scale of one half inch for one foot.

The range of locomotive models includes about twenty-five units and is in itself an eloquent history of the progress in mechanical engineering which has given us a great modern convenience.

While the early types were built chiefly to satisfy given load conditions without breaking down in service, the most recent developments in engineering have made it possible to get other desirable features. Among these are the high efficiency and speeds characterizing the passenger trains operating on through schedules between distant cities.

To read a history of railroading from the very beginning would take considerable time, more time, perhaps, than we can very well spare. However, the subject is too interesting to pass by and the opportunity offered is one that may not be repeated in the near future.

## A. I. Ch. E. Will Hold Meeting This Friday

Students in the department of chemical engineering will hear a lecture on the crushing and sampling of ores, at a regular meeting of the A. I. Ch. E. to be held this Friday, November 6, at 10:30 in the Physics Lecture Room.

The lecture promises to be an interesting one and is to be given by a representative of the Raymond Brothers Impact Pulverizing Company.

Speakers for meetings, which are held every two weeks, are obtained by correspondence with many industrial organizations. At present an attempt is being made to secure R. B. Harper of the Peoples Gas Light and Coke Company to lecture on the World's Fair Exposition to be held at Chicago in 1933.

Students in other branches of engineering are invited to attend the various meetings.

## CALENDAR

### Tuesday, November 3

5:00 P. M. Orchestra practice, Assembly Hall.  
5:00 P. M. Meeting of candidates for basketball team, Gymnasium.

### Wednesday, November 4

5:00 P. M. Stresses and Strains Practice, Assembly Hall.

### Thursday, November 5

2:00 P. M. Junior Chemical Inspection Trip.

### Friday, November 6

5:00 P. M. Boxing Practice, Gymnasium.  
10:30 A. M. A. I. E. E. Meeting, D Mission.  
10:30 A. M. A. I. Ch. S. Meeting, Physics Lecture Room.

### Monday, November 9

5:00 P. M. Boxing Practice in Gymnasium.

## Honor "A" Plans Annual Banquet

The annual banquet of the Honor "A" Society will be held December 1, after the Varsity-Alumni basketball game. This was decided at a meeting held last Friday, but the place has not been chosen definitely, except that it will be held at one of the campus fraternity houses.

An election of a secretary was held and of the two candidates, E. Sade-man and R. Carlstrom, the latter was elected.

Bids to membership are being extended to a number of upperclassmen who have been active in sports.

H. C. Rossing is president of the society, and F. A. Ustryski is vice president.

### Society Founded in 1914

The Honor "A" Society was founded in the spring of 1914 and is one of the oldest existing organizations at Armour. It was organized originally as the governing body of athletics at Armour, being supplanted in that capacity by the Armour Tech Athletic Association. It now exists as a society to promote athletics and to bind the letter men together. As a mark of distinction on the campus the members wear small gold "A" charms, a star being engraved for each sport award.

## City Papers Await Adorning of Frosh

Interest in freshman hats has now risen to such a point that before long actual specimens may be seen and appreciated on our campus.

The upper classes have been thoroughly canvassed and the majority seem enthusiastic about the plan. The facts at hand indicate that most of the freshmen are not opposed to the idea of wearing skull caps. They realize that such an increase in collegiate atmosphere would be very desirable. Since skull caps are so common at other schools, the adoption of such a distinguishing mark would achieve the desired result without subjecting the freshmen to the ignominy of the more revolutionary Eugenie.

### Dailies Getting Anxious

This venture is attracting almost as much interest outside of school as it is in. Recently a photographer from the Evening American hurried to school to take pictures of the hating event but was disappointed. Last Wednesday, a Herald and Examiner representative telephoned the school officials and asked to be informed of the developments of the idea.

The committee, in charge of this work, consisting of J. R. Jackson, Jr., J. R. Fernbach, and J. L. Lynch of the senior, junior and sophomore classes respectively, is of the opinion that the time honored skull caps are more appropriate for Armour than the recent Eugenie style.

## Freshman Breaks Arm In Gymnasium Mishap

Mitchell Dojnick, '35, fractured his arm last Monday between 10:30 and 11:30 while participating in a basketball game in the school gymnasium.

Playing the position of forward, Dojnick dribbled the ball down the floor with a burst of speed. In some manner he collided with two other players and was hurled toward the wall. In order to check himself, he extended his right arm, but crashed with such impact that the arm was broken.

He was taken to Mercy Hospital by Dean Penn, where Dr. J. F. McNamara, the Institute's medical adviser, administered first aid, and set the fractured arm. It is expected that Dojnick will return to his classes some time this week.

Students taking gym should take notice of this unfortunate injury, and be more careful while playing basketball.

## FOUR COMMITTEES OF SENIOR CLASS COMPLETING WORK

### Jackets on Exhibition in Trophy Case Today

#### PRICES REDUCED

Four of the senior class committees have started the work for which they were formed and will announce the results of their activity in the near future.

The jacket committee has visited seven companies and has finally decided upon the firm of Rexford and Kelder. This firm manufactures senior jackets for Northwestern University, and the Universities of Michigan and Wisconsin. Their price is more reasonable than that paid in former years. Seniors may obtain jackets this year at \$7.50, a saving of one dollar.

It is planned to have a sample jacket on exhibition today in the trophy case, on the first floor of the main building. In the near future a man will be sent to the Institute by the company to measure those who wish to order jackets.

The following men compose the committee:

T. A. McGill, chairman.  
V. R. Candberg.  
L. G. Wilkie.  
J. Palma.

R. E. Long.

The photograph committee, working in conjunction with the Cycle editorial staff, has received bids from four studios. The cost of pictures this year will not be more than that in previous years, but may be less. The company to which the contract will be awarded will be decided upon by the end of this week. The committee is headed by Oscar Eskonen.

The decision as to which of two concerns to chose for the job of handling the senior announcements lies with the committee headed by J. R. Jackson Jr.

E. A. Scanlan, Jr. reports that his committee on senior jewelry is at work and will soon show results.

## Dramatic Club Holds First Meeting Nov. 6

There will be a meeting of the Dramatic Club, which is in the process of being formed at Armour, next Friday, Nov. 6, in the Tau Beta Pi rooms from 5 to 6 o'clock.

The rooms are located on the third floor, first entrance of Chapin Hall. To date about twenty-five men have signified their intention of joining the club. The prospective members are equally proportioned between all the departments of engineering, and in view of this fact the drama club should be a success from the technical standpoint.

Among the business to be taken up will be the choosing of an appropriate name for the organization. A mysterious name or one which must be looked up in the dictionary for the meaning is wanted. Anyone with ideas on the subject please express them to the committee in charge. There will also be an election of officers so as to get the club organized and in working order as soon as possible.

The object of the Dramatic Club is to furnish entertainment in the form of one act plays at any of the various smokers or meetings of the student body, where such entertainment is needed.

### SALAMANDER PLEDGES CLANTON

Carl Clanton, F. P. E. '33, has been pledged to Salamander, honorary F. P. E. fraternity. The pledging took place Wednesday, Oct. 28, at 2:00 P. M. Clanton the only man pledged, has the highest scholastic average of the junior fire protection engineering class.

# Armour Tech News

Student Publication of the  
ARMOUR INSTITUTE OF TECHNOLOGY  
CHICAGO, ILLINOIS  
Published Weekly During the College Year



### SUBSCRIPTION RATES

\$2.00 Per Year      Single Copies, 10 Cents Each

### MANAGING BOARD

Editor-in-Chief.....Wilbur H. Rudolf, '32  
Managing Editor.....Max J. Schinke, '32  
News Editor.....Edward W. Carlton, '32  
Business Manager.....James J. Casey, '32  
Faculty Adviser.....Professor Walter Hendricks

### EDITORIAL DEPARTMENT

Feature Editor.....J. R. Jackson, Jr., '32  
Fraternity Assistant.....Harold Bodinson, '33  
Architectural Assistant.....W. W. Davies, '33  
Reviews.....Morton Eagen, '32  
Columnist.....George Bouvallet, '32  
Assistant News Editor.....Orville T. Barnett, '33  
Copy Editor.....L. G. Wilkie, '32

Assistants.....  
J. B. Dirkers, '32  
J. W. Juvinal, '33  
F. W. Paine, '33

### Reporters

E. E. Eberth, '33      N. E. Colburn, '34  
R. F. Rychlik, '33      W. Krol, '34  
H. Fishman, '33      V. Rimsha, '34  
E. G. Avery, '34      J. A. Scheyer, '34

### SPORTS DEPARTMENT

Sports Editor.....H. P. Richter, '32

### Reporters

C. H. Fox, '32      R. A. Fleissner, '34  
H. F. Becker, '33      D. F. Landwer, '34  
H. W. Davidson, '34      S. J. Viktora, '34

### BUSINESS DEPARTMENT

Advertising Manager.....M. A. Collick, '32  
R. E. Nelson, '33      W. L. Bengston, '32  
E. J. Wiltrakis, '32

### Assistants

Circulation Manager.....J. S. McCall, '32  
Assistants  
E. H. Chun, '32      L. Marcus, '34  
R. Dufour, '33      T. C. Peavey, '34  
M. J. Erisman, '33      C. B. Sommer, '33  
E. A. Svoboda, '34

Vol. VIII    NOVEMBER 3, 1931    No. 7

The melancholy days are come, the saddest of the year,  
Of wailing winds and naked woods and meadows brown  
and sear.

William Cullen Bryant  
Born November 3, 1794.

## The One Hour Lunch Period

For the last several weeks the subject of the proposed full hour lunch period has been under discussion in various official and unofficial groups in the student body. The idea was suggested at the Freshman Handshake and has been talked of, more or less, ever since.

Stated in a few words, the proposition is this: that the first morning class start at eight o'clock rather than eight-thirty and the extra time thus gained be added to the lunch period. According to this, the fourth class of the day would be dismissed at eleven-fifty. With such a schedule the fifth class could start either at one-ten, as it does now, or at one o'clock, still leaving one hour and ten minutes for lunch or an increase of twenty minutes over the present allotment. If this latter plan were adopted, the last class of the day could be dismissed at four-fifty instead of five o'clock.

We feel sure that a majority of the students will agree that such an addition to the lunch period would be a distinct benefit. It is probable, however, that many will feel that, with a little more care, the department schedules could be arranged so that students having eleven-thirty classes would not have any at one-ten, and vice versa. This would obviate the necessity of starting the first class at eight o'clock and would still give sufficient time for lunch. We have consulted with the authorities on this point and have been assured that such a plan is impossible. The office of the Deans, in making out the schedules, is already doing all that it can to arrange them in the manner suggested above. Whenever it is possible, the programs are so designed that the eleven-thirty and one-ten classes for any one group meet on different days, but, because of the complications involved in making the programs of students and professors dovetail, it is often impossible to achieve this ideal condition.

It is probable that the only objections to the idea of starting the school day earlier would come from those who commute from a distance and who share in the universal aversion to getting up.

If you who read this have any comments or suggestions to make on this subject, you are cordially invited to write them down and put them in the contribution box of the *Armour Tech News* in the school store. If you do not wish to have your name published, you may add a note to that effect and your wishes will be respected. However, all contributions must be signed with the name of the sender even though the name is not to be published.

Think it over, fellows. What are your opinions on the "lunch hour" subject? Take advantage of this opportunity to express your views to the entire school.

## "The Slipstick"

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

### Tech Band Needs Bass Player

Don't tell me that there is a bass horn player running loose in the Institute! If there is one send him right over to the band. We can't for the life of us see why a person could want to play such a thing as a bass horn. Now take a saxophone, for instance; you can get real music from it, but a bass horn, we just can't see it. We will admit, however, that a bass player does get all wrapped up in his work.

### WHICH ONE SHALL IT BE!!

"There is a movement to bring the theater to Armour" according to last week's News. We thought the Senior Mechanicals had gone out and hog-tied one and dragged it here, until Hal told us about the Dramatics movement. We can't offer our services as a performer but we'll sell popcorn or rent opera glasses if that will help.

And if the freshmen who were nearly hurt in an accident, as reported last week, had been wearing Empress Eugenie hats, they would have wanted to display them, would not have been riding in an auto, and as a result no accident would have occurred.

Moral: Freshmen, get and wear your Eugenies now!! Prevent accidents.

*Somebody swiped Virge's car!!! Well, we just hope that Virge either gets the old one back right soon or gets a new one. We certainly would hate to ride the street car to the Senior dance.*

They tell us (alho we hate to believe it) that Proprietor Livingston of Ye Armour Booke Stalle has now a supply of graph paper that actually takes ink

This news will be a blow to the freshmen who have been forewarned that they may save money by buying talcum powder and Artgum in carload lots for preliminary graph paper treatment during their next four years at Tech. Personally (this is the only column in the News where one is allowed to get personal) we were getting used to it and might have perfected an automatic grease eradicator had the incentive not been removed.

And if the Frosh had been wearing Eugenies, there would have been a crowd of them in the middle of Federal Street, and those two initiates to the Schmier Chemiker Society would have been at the window throwing chalk at them, and as a result no explosion would have occurred.

Moral: Freshmen, get and wear your Eugenies now! Protect Property.

Jacques Pierre, we are surprised at you. May we state here in public that Jacques wrote us a letter in answer to our request for barnyard poetry, which carried a poem which had the tone of one making love.

We cannot tolerate such trash, but want good barnyard style poetry. Hope we didn't scare you, Jacques, come again.

Another story in last week's News says that "There wasn't enough excitement in the lives of the sophomore chemicals—the result being—a piping hot fire."

Moral: Freshmen, get and wear your Eugenies now! Create excitement and thus prevent fires.

Say, we have a complaint to make. Some goodfor-nothing imp sent in an unsigned contribution with the following joke:

"Jimmy, does your father know any new funny jokes?"  
"No, he's a newspaper columnist."  
This little message has all the earmarks of, well, you know what I mean.

Step-Hen pens us a line saying that (at the Chi-Yale game) "One time the 'mighty Atom' got smeared and they had to delay the game while they picked up the protons and electrons." We wonder if the charge that caused this ionization really did occur on the Grid.

He also recalls that one man got up during the game, and, pointing to the Akron which was flying overhead, exclaimed:

"That's my idea of a good five cent cigar!!"

Crabgoof: "Here, Joe, try one of these cigars my wife gave me for my birthday. They are the best things out."

Joe: "Yeh? How are they when they're lighted?"  
Well, well, well!! He's now a full fledged member, president, and treasurer of Schmier Chemiker, Incorporated. Are congratulations in order?

And if there had been a few freshmen wearing Eugenies on the sidelines of that basketball game, the one freshman would have noticed them and would not have tripped and been hurt.

Moral: Freshmen, get and wear your Eugenies now. Save a life!!

Well, all we can say is that we sure are downcast now that we know that this year the sauerkraut crop is but 30,000,000 pounds as compared to last season's 440,000,000 pounds. Sauerkraut was our favorite fruit.

The Bngineer.

## REVIEWS

### THE THEATER

In writing the first theatrical column to appear in the News this season, the natural way of starting is by trying to add something to the volumes already written about *The Green Pastures*. It is the one new production of the season to merit an unqualified recommendation—and get it. Shows may come and go, but hardly more than once in a lifetime will one come that is more worthy of attention than Marc Connelly's interpretation of the simple faith of the southern Negro in a friendly, personal Deity who wears a swallow tail coat and accepts "ten-cent seagars" from an ebony-hued angel Gabriel.

Have no fear from the above, however, that the play is irrelevant; you will not only have a pleasant evening at the Illinois, but will come away with a better understanding of human nature and of religion. For when Marc Connelly adapted the play from "Ol' Man Adam an' His Chillun", a series of Old Testament sketches by Roark Bradford, he added a spark of sympathetic genius to the original. The Bradford book was good, but it was merely amusing—not irreverent, but somewhat irrelevant.

Richard B Harrison gives a dignified and powerful characterization of de Lawd. Other important members of the cast are Samuel Davis as Gabriel, who appears at the Celestial Fish-fry shouting "Gangway! For de Lawd God Jehovah"; Tutt Whitney as Noah; Daniel Haynes as Adam; and Alonzo Fenderson as Moses. The Heavenly Choir deserves praise for its rendition of Negro spirituals at intervals during the performance.

*Green Pastures* was the first of two September openings. The second was Lou Holtz in the unfortunate two-week flop, *You Said It*. Chicago theatre-goers treated this musical comedy more brutally than it deserved; its failure to draw the crowds is still puzzling our rialto. Holtz, producer and star of the show, was funny, and Lyda Roberti, the "Sweet and Hot," platinum-haired Pole scored a first-night triumph in her Chicago debut. It was, in my opinion, a better show than *Crazy Quilt*, which is selling out almost nightly at the Apollo. This revue, considering its stars—Fanny Brice, Phil Baker

### American Chemical Society Convenes

An interesting lecture on "The Chemical Constitution of Celestial Matter" was given by Professor Lemon, of the University of Chicago, at the regular meeting of the American Chemical Society held on Friday, October 23, at 7:30 P. M. in the City Club of Chicago.

Many new discoveries of the composition of celestial matter were presented which bring the study of its intricacies within our present knowledge. All of his research discoveries were made with the aid of the spectroscope, which has opened up many new lines of research. His development of the spectrophotometer has facilitated research work in astrophysical phenomena.

Lectures on a variety of subjects were given in the committee rooms immediately following that of Dr. Lemon.

The process of obtaining lubricating oils with new properties from paraffin wax was explained and illustrated with the lantern by Vanderveer Voorhees of the Standard Oil Company of Indiana.

J. W. Glatfield, a professor of chemistry at the University of Chicago, explained the composition and reactions of "Saccharose", a new methyl pentose.

The enormous development and importance of the distillation processes in all petroleum industries were recalled by D. J. Bergman of the University Oil Products Company.

An interesting and new bit of research work was revealed when A. B. Hastings, professor of bio-chemistry at the University of Chicago, discoursed on his biological studies of the halides in the blood.

Karl P. Schmidt, an assistant Curator of Reptiles in the Field Museum of Chicago, explained some of the applications of research chemistry in Museum technique.

## ARX NEWS

It was on a dark and dreary night. The portals of the Art Institute were alone in their glory. A lone guard was dozing just inside the massive doors when a hideous shriek rent the artistic atmosphere! Awakened from his slumbers the guard carefully found his way to the room whence the sound had come. A light beamed forth to break the inky blackness. What was here? Could it be vandals? Had some poor creature been lured here to be tortured by gazing at students' water-colors? Cautiously he opened the door that he might peep in. And disappointment! Only the junior architects were there chattering on an archeology. The shriek? Oh well, Sydney Morris does make funny noises anyhow!

And the graduates do come back. Last Saturday was esquisse day for the seniors on their first project. And some of the boys from '31 put in their appearance. Henry Sevenhouse and Ray Nelson walked in closely followed by Tom Carter, Boris Stamm, and Tom Doane. Along about 8 o'clock who should put in his appearance but Louie Costanzo. (Incidentally don't ask the boys what they're doing).

Don't forget fellows! There's a smoker on the 23rd! The tax is two bits. See your massier at once.

And the Smoker was a great success! Last Friday, October twenty-third, the Armour Architectural Society gave a Smoker in the Club Room of the Art Institute. Despite the rain and parking troubles, over eighty were there. Mr. William Jones Smith, of Childs and Smith, Archs., was the speaker. He gave a talk on "The Architect in Relation to Business." The points that he brought out were excellent and furnished material for further study. A "mock" judgment, that is, a take-off on a real one was given and seemed to be the main show of the evening. Roy Phlak, George Terp, Walter Andersen, Julius Sandstedt, and Frank Dubsy were the gentlemen in the cast. They certainly deserve credit for the way they put it over. Music was furnished by Ralph Scafuri, a friend of his, Charley Sommer, and Bill Janssen. Refreshments were served and all left the Club at ten o'clock not at all reluctant to admit they had a wonderful time.

The best individual dancing is that of Floria West, in the "Barbary Coast" number, but the chorus really steals the terpsichorean honors. Benny Rubin, known to you for his work in pictures, takes care of the humor, and nearly stops the show early in the second act. Gershwin, great master of modernism, conducted the overture at the opening, and received a thunderous ovation.

This production was put out by a Chicagoan, Gregory Ratoff, and is said to have been backed by Dick Morris of this city, owner of the good three year old Spanish Play. The orchestra was provided by the Windy City's Old Maestro, Ben Bernie.

—Robert B. Tague.

### THE GREAT ASTRONOMERS

By Henry Smith Williams

SEVEN MILLION MILLION—No, not the war debt, but merely the astronomer's yardstick for measuring distances in this universe of ours. Distances so great that they are measured in light-years, with light traveling at the rate of 186,000 miles per second, are common in this cosmos, of which we are such a minute part.

In "The Great Astronomers" appear all of the things about which you have wondered: the multitude of stars seen in the skies every night, how far away they are, how big they really are, what they are composed of, and how they affect this world of ours. It comprehensively covers the development of astronomy from its primitive beginnings during the time of the Alexandrian astronomers to the most recent theory advanced by Einstein. Though there are many books on this subject, the reason that this book is outstanding is that even the most technical researches have been translated into untechnical and interesting prose.

Here is a chance to understand all of the strange and unique features about the world in which we live and its relation to other worlds. Through the pages of this book, you may become acquainted with the romantic figures of those famous men whose active minds were ever searching farther and farther into space for other worlds to investigate.

A narrative of achievement telling the story of what astronomers have contributed toward a true conception of the universe is worthy of the attention of all.

Raul H. Frye.

The Seniors have just finished a problem and the results of the local judgment have been made known. Three second medals were given, Tonsager, Petersen, and Palma. Petersen received a first medal—Beaux-Arts this summer and it looks like he's headed for more honors. Congrats and good luck to all three of you.

### Civil Upperclassmen On Joint Inspection

(Continued from page 1)

give the clearance under the span which was required by the United States Government Engineers.

The portion extending across Goose Island from the River Bridge to the Bridge across the North Branch Canal consists of a reinforced concrete viaduct with a 78 foot roadway and two fifteen foot sidewalks.

The improvement crosses the Canal on a two leaf trunnion bascule bridge, with two trusses in each leaf. At this point the structure is so high that the clearances could be neglected. The roadway is 60 ft. wide between curbs with two sidewalks 12 ft. wide, making the overall width of the bridge 84 ft.

The improvement will cost around five and one half millions of dollars and will require 31,000 cubic yards of excavation, 17,500 cubic yards of sand fill, 108,000 cubic yards of concrete, 14,360,000 pounds of structural steel, 4,600,000 pounds of reinforcing steel, 8,750 square yards of pavement, 30,000 square feet of sidewalk, 308,500 board feet of lumber, 4,062 lineal feet of sewer, and 38,640 feet of conduit.

During elections, the students of the University of Aberdeen in Scotland, still clinging to old traditions, formed two teams and waged a royal battle with "ripe" eggs, tomatoes, and paper bags filled with flour.

### RIFLEMEN SWAMP FAIRPORT TEAM IN FIRST MATCH

Exceptional shooting for so early in the season gave the Tech sharpshooters a victory by 166 points over the Fairport Rifle Club in the first indoor postal match of the season. The individual scores show how the men stack up against other riflemen:

ARMOUR	
Helmick	378
Wilson	376
Hackley	370
Patla	370
Hollmann	365
Total	1859
Sachs	358
Dickey	343
FAIRPORT R. C.	
Smith	377
Evarts	367
Knittel	347
Brewster	339
Robinson	263
Total	1693

The Fairport team had a small turnout for the match, and for that reason they have asked for a return match. A challenge has been received from the New York Stock Exchange as well, and these two matches will be held soon.

The New York Stock Exchange had one of the strongest teams in the country last year, and Armour expects to arrange a series of three matches to be shot two weeks apart in order to avenge the defeat received during the last encounters.

### Chemicals See Model Plant at Hinsdale

(Continued from page 1)

ment of the water which is connected with human hands is that in which treating chemicals are dumped into various hoppers. The treating chemicals, which are soda ash, hydrated lime, and sodium aluminate, are mixed in the right proportions by a machine and placed in the water.

A large and powerful centrifugal pump draws water from a well 272 feet deep and pumps it to the main plant at a rate of 1600 gallons per minute. The water is stirred with treating chemicals in two huge tanks and is then removed to settling basins where 80 per cent of the precipitated chemicals settle to the bottom. Practically all chemicals producing hardness which remain dissolved in the water are removed by bubbling carbon dioxide through it in the carbonizer. The water is then filtered through a 42 inch gravel and sand bed to remove any material suspended in it.

An analysis is made of the treated water every hour to determine the acidity and alkalinity. The entire process removes 80 per cent of the chemicals producing water hardness.

The cost of operating the plant is about seven and one half cents per 1000 gallons for chemicals and eleven cents per 1000 gallons considering all expenses.

After the treatment, the water is sparkling and crystal clear, and is an excellent drinking water.

The plant operates nine hours a day and maintains a reservoir of 1,065,000 gallons. The estimated water consumption per capita is 70 gallons per day.

### Illustrated Lecture At A. S. M. E. Meeting

Mr. John A. Maloney, the assistant director of the Museum of Science and Industry, spoke at the last meeting of the A. S. M. E. held in Science Hall.

At the present time the greatest technical museum in the world is the Deutsches Museum in Munich, Germany. The museum at Chicago will be patterned to a large extent after the one in Munich.

Mr. Julius Rosenwald, the donor, obtained a bond issue from the South Park Board of \$5,000,000, and in addition donated \$3,000,000 of his own to the cause.

The purpose of the museum is to give the layman an insight into the progress of science and industry up through the ages.

### FRATERNITY NOTES

#### PHI KAPPA SIGMA

A Hallowe'en party was held at the chapter house last Friday evening. In spite of the inclement weather, the party was a huge success.

Brother Schweitzer, Arch. '25, and Brother Pettingill, Upsilon chapter, were guests at the house for lunch last week.

Word has been received that "Mac" Larkin, Arch. '31, has regained consciousness and is expected to recover from injuries sustained in an automobile accident of last week.

#### RHO DELTA RHO

Rho Delta Rho announces the pledging of Alfred J. Rosen, Arch. '35, and Charles Handler, E. E. '35. Preliminary preparations are being made for a pledge dance to inaugurate the social season. The dance will be held November 21 at the chapter house.

On Wednesday night, October 28, the Alumni organization of Rho Delta Rho held the second meeting of the current year at the chapter house. A "Get-together-a-Month" was decided upon. The Alumni will act in conjunction with the active chapter in putting over the pledge dance.

#### THETA XI

Open house was held for the members of the Purdue Chapter who visited Chicago for the Purdue-Chicago football game. Not only were there Purdue members present at the open house, but there were many parents of the boys.

The Unicorn, Theta XI's national quarterly has just been received. This publication contains full details of the Sixty-seventh National Convention which was held at Columbus, Ohio, last September.

Brothers Schroeder and Murphy, '31 are now living at the house while working in the city.

#### BETA PSI

We are pleased to announce the pledging of Howard Zibble, F. P. E. '35.

A dance sponsored by the pledges, was held at the chapter house last Friday evening. It was well attended by pledges, actives, and alumni members.

#### SIGMA KAPPA DELTA

Sigma Kappa Delta is pleased to announce the pledging of Paul Troemper, C. E. '35.

A Hallowe'en party was held at the chapter house last Saturday evening. Several alumni along with the members and their friends enjoyed the evening's entertainment to a large degree.

### Dean Heald Attends Bridge Prize Banquet

Engineers of the Bridge department of the city of Chicago were honored by the American Institute of Steel Construction last Wednesday, when a bronze plaque was placed on the new Wabash Avenue bridge in recognition of the Institute's choice of the span as the most beautiful one built in America in 1930.

Mr. W. W. Wood, president of the Mississippi Valley Steel Construction Company, and former president of the A. I. S. C. presented the award in behalf of the Institute, and it was accepted by Mayor Cermak.

After the unveiling ceremonies, the Chicago Association of Commerce entertained the A. I. S. C. at a luncheon in the Hotel LaSalle, a large number of engineers and business men attending. Among them was Dean Heald of Armour Institute.

Some of the speakers were Mr. Wood, Mayor Cermak, Albert A. Sprague, commissioner of public works, and Col. Robert Isham Randolph.

The Chicago representative of the A. I. S. C. jury was Mr. Henry Penn, a former professor at Armour. Several Armour graduates are among the city engineers who have developed the Chicago Type bascule bridge, of which the Wabash Avenue span is a beautiful example.

### Students Will Visit Chlorination Plant

As one of a series of inspection trips planned by Professor Bentley, the junior chemists will visit the Sixty-ninth Street chlorination plant at Sixty-ninth Street and South Shore Drive this Thursday, October 5th.

This plant has, in addition to its regular chlorinating and pumping machinery, an experimental filtration plant. In this station experiments are carried on with different types of filters. The principal items to be considered are the life of the filter, the capacity of the equipment, and the method of packing the sand and gravel.

The City of Chicago, in accordance with the Chicago Plan, is contemplating the building of a string of artificial islands in the lake. These islands will be equipped with filtration plants. These plants will be designed by the engineers who are now operating the experimental station.

The purity of the filtered water has a widespread reputation in the neighborhood of the chlorination plant. When the refuse from the Calumet River pollutes the water served this region (the taste, not the healthfulness of the water, is affected), it is not unusual to see long queues of householders filling jugs at the experimental plant.

### Architects' Informal Gets Well Under Way

Due to the signal success of the Architects' informal last year, plans have been made for another one to be held Saturday evening, November 21.

The Club Room of the Art Institute will be the scene of the dance. In contrast to the informal last year, this one will be sponsored by the entire architectural class instead of by the freshmen alone. By having members of each class on the committee it is hoped to have a greater degree of enthusiasm displayed by the students.

One plan devised by the committee was to have a petition signed by all who desired to attend, and only those who have signed will be able to obtain bids. The size of the club room naturally limits the size of the crowd. This week will be the last opportunity to sign the petition. Bids sell for \$1.50, and none will be sold at the door.

As in the previous year, a competition for a bid design was held. Louis Smerz, a freshman architect won with points to his credit for economy, character, uniqueness, and interest. That a freshman won out in the contest was a source of surprise and some chagrin to the upperclassmen.

The members of the committee for the dance are: Krol, '33, Andersen, '33, Zikowski, '34, and Forsyth, '35.

At the next meeting the patrons and patronesses will be chosen.

### Campus Club Seeks Enlarged Quarters

In order to accommodate the unusually large membership of the Armour Tech Campus Club, an application for additional rooms has been presented to the Dean's office.

At present there is an enrollment of 47 members, and there are a number of men who have been enrolled provisionally pending the granting of more space. If the hopes of Art Viel are realized, these men and more can become members.

Formative plans for the holding of the annual event, the chess tournament, are being made. This tournament is open to all students at Armour, and in the future, as in the past, the Campus Club rooms will be available for all matches. Chess men will be supplied by the club as well.

This tournament is held, not for a prize, but for a title, and all players—good, bad and indifferent—are invited to register with Dan I. White. The purpose of the tournament is mainly to keep alive the keen interest which exists at Armour for a really brainy game.

### NEW BOOKS

The Great Astronomers  
H. S. Williams

Our New Ways of Thinking  
George Boras

The Stars in Their Courses  
J. H. Jeans

Humanism and Science  
C. J. Keyser

Science and First Principles  
F. S. Northrop

The Logic of Science  
H. R. Smart

Modern Science  
J. A. Thomson

Henry Frank's  
Barber Shop  
200 East 31st Street  
Haircuts 40c

**ALICE RESTAURANT**  
3117 Wentworth Avenue  
ENLARGED . . . . . IMPROVED  
WHERE QUALITY AND SERVICE REIGN SUPREME  
Home Cooking

"It's a Truly Modern Cigarette"

"I'm certainly grateful for Lucky Strike. It's a truly modern cigarette for it gives me modern throat protection. And your improved Cellophane wrapper is wonderfully modern, too. It opens without any coaxing—a flip of the little tab and there are my Luckies."

*Loretta Young*

A famous and beloved picture star while still in her 'teens—blessed with breathtaking girlish beauty—could fate have been kinder to Loretta Young? She's the very incarnation of young loveliness. If you have not seen her in First National's "Ruling Voice," do so.

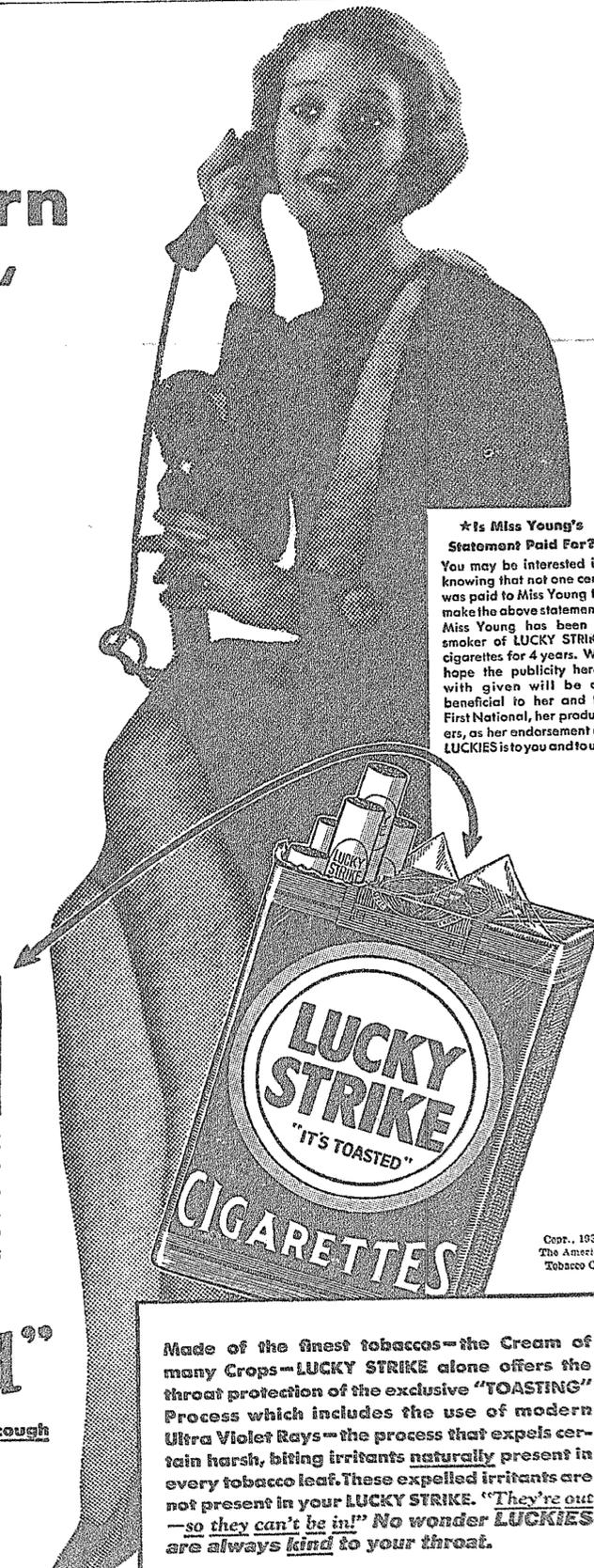
That LUCKY tab! Moisture-Proof Cellophane. Sealed tight—Ever right. The Unique Humidor Package. Zip—And it's open! See the new notched tab on the top of the package. Hold down one half with your thumb. Tear off the other half. Simple. Quick. Zip! That's all. Unique! Wrapped in dust-proof, moisture-proof, germ-proof Cellophane. Clean, protected, neat, FRESH!—what could be more modern than LUCKIES' improved Humidor package—so easy to open! Ladies—the LUCKY TAB is—your finger nail protection.

"It's toasted"

Your Throat Protection—against irritation—against cough

And Moisture-Proof Cellophane Keeps that "Toasted" Flavor Ever Fresh

TUNE IN—The Lucky Strike Dance Hour, every Tuesday, Thursday and Saturday evening over N.B.C. networks.



\*Is Miss Young's Statement Paid For? You may be interested in knowing that not one cent was paid to Miss Young to make the above statement. Miss Young has been a smoker of LUCKY STRIKE cigarettes for 4 years. We hope the publicity herewith given will be as beneficial to her and to First National, her producers, as her endorsement of LUCKIES is to you and to us.

Made of the finest tobaccos—the Cream of many Crops—LUCKY STRIKE alone offers the throat protection of the exclusive "TOASTING" Process which includes the use of modern Ultra Violet Rays—the process that expels certain harsh, biting irritants naturally present in every tobacco leaf. These expelled irritants are not present in your LUCKY STRIKE. "They're out—so they can't be in!" No wonder LUCKIES are always kind to your throat.

## BASKETEERS TAKE FLOOR TONIGHT IN INITIAL PRACTICE

### Prospects For One of Best Teams in History

#### BOOK TWO MORE TEAMS

The first basketball practice of the season will be held tonight in the Armour gym. New men are urged to try out for the team, several positions being open.

Coach Krafft will have to develop several guards this season because Rummel is the only one back from last year's squad. One or two of the forwards may have their talents turned to the task of guarding Armour's basket. Several freshmen show promise of developing into consistent guards.

Captain H. C. Rossing will lead one of the strongest basketball squads that Armour has ever had. He will be assisted by five regulars from last year's team who are: ex-Capt. Robin who will be back for the first semester, Lind, and Setterberg who are all forwards, Beemsterboer at center, and Rummel who is a guard.

Two more games have been added to the tentative 1931-32 schedule since last week. The additions are: Chicago Normal College at Armour, December 3; and Michigan Normal College at Armour, February 25. The team will probably journey to Michigan for a game February 8. The complete schedule will probably contain fifteen games, the Alumni game opening the season on Tuesday, December 1.

### Boxing and Wrestling Progressing Rapidly

Tech boxers will be aided this year by the advantages of new equipment. The Athletic Association has given its approval to the buying of punching bags, mats, ropes, and the other necessities for training good "pugs." A systematic conditioning will begin when the new equipment arrives.

Manager Ustryski states that a large number of meets will be scheduled this year. The first will probably be held with Loyola sometime before the holidays. Other meets will be arranged with Valparaiso University, St. Viator College, Culver Military Academy, and De Paul.

Heavyweights and men for the 112-pound class are still needed to fill the gaps in the squad. Only five regulars from last year have returned to the ring this season.

Wrestling will be managed separately from boxing. Although this sport is not officially recognized, a large number of men are practicing regularly in Armour's gym. A coach has not been appointed, and Professor Schommer has not stated that letters will be given for participation.

It will be possible to schedule many wrestling matches because more colleges have wrestling than have boxing.

### Tennis Tournament Approaching Finals

Given another week of fair weather, the tennis tournament will in all probability be completed. A. J. Cohrs is in the semi-final round, defeating Gunderson in the quarter finals in two straight sets, 6-4, 6-3.

In the quarter finals are Graham, who defeated Beal by a score of 6-1, 6-0. Paine defeated Lukas in two sets by virtue of a 6-1, 6-3 victory. Juvinal met H. P. Richter and defeated him in a three-set match by a score of 6-4, 1-6, 6-1. Esbensen defeated Hirsch by a score of 6-2, 8-6 to enter the quarter finals also.

Lind and Curran, and Armsbury and Hendricks, have not yet played off to determine who will enter the quarter finals.

In the doubles tournament Cohrs and Graham defeated Hirsch and Nelson by a score of 6-4 and 7-5. Davidson and Richter finally defeated Collatz and Trudelle after three long sets by a score of 6-4, 5-7, 6-4. Graham and Lukas defeated Monger and Bollinger. Lyford and Messinger have not yet met Magnussen and Schultz.

## TECH SHORTS

### Krafft's Basketeers

Tech's varsity basketball team will start its 35th annual season tonight when practice will begin in the Armour gymnasium. A record turnout is expected, and according to the latest reports the 1931-32 team will be one of the best in the history of the school.

About forty-five men answered Coach Stagg's call for track candidates at the meeting held last Wednesday afternoon. Indoor practice will be held this fall in the new University of Chicago fieldhouse, which will be one of the leading indoor tracks in the country.

### Do You Know That?

Professor J. J. Schommer entered Armour in the spring of 1913 as coach of Tech's track, baseball, and basketball teams? Previous to this he had graduated from the University in Chicago in 1909, and from Armour as a Chemical Engineer in 1912.

While at the University of Chicago, he had won national fame in basketball, baseball, track, and football, being the winner of twelve major C's in these four sports. He was All-Western center in basketball for three consecutive years, All-Western end in football in his senior year, held four individual records in track, and was captain of the basketball team which won the World's Olympic Y. M. C. A. championship at St. Louis in 1905.

### Beat Phi Pi Phi

Phi Pi Phi ably represented by Carlson, Gisske, Leichtenberg, and MacLennan, of last year's team will be out gunning for their fourteenth consecutive interfraternity basketball championship this year. All of the other nine teams' slogan is "Beat Phi Pi Phi!"

Armour's annual fall tennis-tournament is slowly but surely furnishing its schedule. If weather permits, the championship ought to be decided within the next week or two.

H. P. R.

## TRACK MEN BEGIN INDOOR PRACTICE AT BARTLETT GYM

Although the track season does not open officially until the Christmas holidays, a meeting which took place last Wednesday gave the track aspirants an early start.

Coach A. A. Stagg, Jr., addressed the old members and new candidates, and ordered light practice for all immediately. Captain C. Jens also gave the squad pointers on training. Equipment was given out, first to last year's letter men, then to the experienced candidates and to the new men. Everyone will be furnished with suits, etc., as new equipment is expected in the near future.

Coach Stagg announced that the Bartlett Gymnasium and the U. of C. field-house will be available to Armour track men and lockers can be obtained there by candidates who intend to stick it out.

The manager for the 1932 season is Colcord and his assistant is Erisman. With a majority of the veterans returning for competition, Coach Stagg sees a bright outlook for the 1932 season but will not express himself as to the caliber of the new material, as he has not seen them in action yet. However, the fact that the squad is becoming larger every year indicates increasing efficiency with a mentor like Coach Stagg at the helm.

Major letter men returning to keep up the track standards at Armour are: Capt. C. Jens, G. Nelson, Hirsch, Sademan and Oberbeck, but Nelson is out for a few weeks with a broken collar bone. Other veterans who won minor A's in track last semester and who are returning for competition, are: Richter, Barnett, Setterberg, Helmick, and Manson.

Other candidates are: Krause, Probeck, Kulpack, Freitag, Van Dyke, Roberts, Hendricks, Scanian, Tiensuu, Holland, Babeck, Tilt, Finnegan, Mueller and Freer.

## Inter-Fraternity Tournament Soon

With the opening games of the 1931 tournament approaching rapidly, basketball again looms up as the favorite inter-fraternity sport. The teams have been organized and practice is in full swing.

Whether the momentum gathered by the Phi Pi Phi team in the last 13 years, during which that team hung up a record of 13 straight victories, is greater than the determination of each of the other fraternity teams to be the one to snap this winning streak, will be decided in the next few weeks. The games should be full of action.

The backbone of the Phi Pi Phi team which defeated the Sigma Kappa Delta team in the final game of last year's tournament, will return to stretch the victory string to 14 straight wins. If the Phi Pi's win again, the victory will be the second of three needed to obtain permanent possession of a cup, of which they have four already, representing 12 of their victories.

None of the fraternities have announced their line-ups as yet. The playing schedule has not been arranged, but the preliminary games will be played during the week of Dec. 2nd to 11th, and the semi-final and final games the following week.

## Gridiron Queries

By Professor John J. Schommer

Editor's Note: Professor John J. Schommer, star player, conference umpire, and leading football authority, will answer through this column any questions on football which are puzzling our readers. Questions may be submitted to the Sports Editor, H. P. Richter, or they may be placed in the Armour Tech News box, which is located in the main building adjacent to the elevator on the first floor.

**Question 9.** A player catches a punt behind his own goal line. Is he allowed to run with the ball, or what is the ruling?

**Answer.** When a punt crosses the goal line, either on the ground or in the air, it automatically results in a touchback, and the receiving team puts the ball anywhere on their twenty-yard line.

**Question 10.** On the kickoff the ball is kicked past the end zone. A player on the kicking team recovers. Is the touchdown allowed?

**Answer.** No. The receiving team puts the ball in play on the twenty-

yard line, for the above is a touchback.

**Question 11.** A man kicks from in the end zone. The punt is blocked and downed behind the goal line by the blocking team. Is this a touchdown? What happens if one of the defending team falls on the ball?

**Answer.** When the ball is downed by the blocking team it is a touch-down, but when downed by the defending team or if out of bounds in end zone it counts a safety for blocking team.

**Question 12.** May a ball carrier as he is tackled toss the ball back to a teammate?

**Answer.** Yes, but not forward.

**Question 13.** May a ball carrier hurdle or jump a man about to tackle him?

**Answer.** Yes, if the tackler is on his knees and the ball carrier does not hurdle with both feet or both knees foremost at a distance of 5 yards on either side of where the ball was put into play

**Question 14.** Is a player permitted to re-enter a game in the same half?

**Answer.** No.

## Swimmers Continue Training for Meets

The activities of the mermen are as yet just confined to practice at the Chicago "U" pool. Practice and tryouts are still continuing and will probably continue until the first of the year. It is still too early in the season to have a complete schedule made up. The manager has not as yet been selected.

The Armour tanksters have the privilege of using the Chicago "U" pool any school day in the afternoon for practice. Aspirants for the team are urgently requested to turn out for practice.

Application for the position as manager of the swimming team should be turned in to Professor Schommer as soon as possible. Manager's award and sweaters are given to managers appointed for the various teams.

The swimming prospects are bright for the coming season. With Capt. Weston, Cavanagh, Byanskas, Carlstrom, Thompson, Giovan, Kolve, Davison, Davidson, and Pfeiler back and with the expected new material an even better season than the last may be expected.

Eat at the  
**BOULEVARD CAFETERIA**  
31st and Michigan

"We'd rather have a Chesterfield and now we'll tell you why..."

Three Stars of  
"Ziegfeld Follies of 1931"

Helen Morgan (on piano)  
Ruth Etting (at right)  
and  
Harry Richman



Three mighty good reasons!

"Milder"—smoke as many as you like! That's what every Chesterfield smoker knows . . . and it's not hard to prove, either. Just try this blend of milder, riper tobaccos!

"TASTE BETTER"—you'll like as many as you smoke! That's what more smokers are learning every day. Not over-sweetened, but just sweet enough for constant enjoyment. The mild, rich flavor of the finest Turkish and Domestic tobaccos.

"THEY SATISFY"—in every way! The tobacco, the paper, the package . . . everything about Chesterfield is the best that money can buy or that science knows about!

GOOD... they've got to be good!