



By Leroy Beckman

The city council of Chicago is confronted with a resolution for the permanent establishment of an annual fair on the grounds of a Century of Progress Exposition. To resume the gala activities of the truly remarkable exposition would tend to create a favorable outlook toward general progressiveness in the city as a whole. However, would the restoration and permanent establishment of an originally intended brief memorial to local progress be a wise move? Would everybody benefit by it?

In back of the resolution there stand the ideals of Mayor Kelly and R. J. Dunham, president of the Chicago park district. It is their plan to raise \$2,500,000 with which to reopen the World's Fair on a permanent basis next May. According to Mr. Dunham, the \$2,500,000 would serve to open the Fair, and a revenue from the exhibitors and concessionaires would provide funds needed during the early stages. Furthermore, it is explained that to operate on a basis comparable to the 1933 and 1934 exhibitions the Fair would require a daily attendance of 48,000. Considering the past two years during which the Fair existed and the millions of people who have visited here, we feel justified in saying that nearly all who were interested in viewing the exposition, did so, whether they came from far or near. Now, we find some individuals who think Chicago near enough to a "land of milk and honey" that 48,000 people will be enticed daily to pay for something they saw before.

From a member of the city council we have the following: "Chicago needs a permanent world's fair. It would be a crime against the city if an annual summer exposition did not succeed A Century of Progress. It is historic what A Century of Progress did for Chicago business. Those benefits extended to all citizens and taxpayers because of new money put in circulation. Moreover, such a Fair swells employment." Of course, the fact that a great number of people did visit the Fair does not signify that the small merchant in the city did benefit thereby. In fact, many places of amusement are known to have closed because of "keen competition." To say the Fair swells employment is true, but to use it as the full basis for argument is without effectiveness, inasmuch as the same is but temporary and in most cases without proper remuneration.

Perhaps the fair would be of benefit in existence to some. But, consider the backers—the city of Chicago through the park system—or indirectly the mayor himself, yes, even the aldermen in the city council. We suggest the possibility, yes, even the probability, that the city council would benefit as individuals by continuance of the Fair. After all, the Fair would offer ideal advantages for a "tavern" here and there, and inasmuch as our city aldermen have so-called "hidden interests"—we'll leave the rest for your conclusion. On the whole, we doubt very much that the

(Continued on page 5)

Interhonorary Group Plans Banquet Dec. 9

At a meeting of the Interhonorary Fraternity Council held last Tuesday, plans for the annual interhonorary banquet were discussed.

The date was set for Wednesday, December 19, and the other arrangements, which include procuring the place and the main speaker and making a program, were assigned to various members of the council. Within two weeks another meeting will be held and by this time the complete details of the banquet will be ready for announcement.

Plans Completed for Senior Dance

Other Social Committees Hard at Work

First of the coming series of class dances will be the annual Senior Informal, to be held December 7 at the Shoreland Hotel, 55th Street and the lake. It will be followed on January 11 by the Junior Informal, and a little later by a sophomore dance.

According to custom the seniors have the honor of introducing the social season each year. The couples will dance to the music of Bill Paden's ten-piece band, which is well known in Chicago circles. Bids will be \$1.50, available within two weeks.

W. A. Trudelle is chairman of the committee in charge of the dance. On the committee are J. J. Ahern, L. A. Cullen, M. C. Forsythe, F. J. Meyer, J. M. O'Connor, and R. H. Wittekindt.

A poster contest is being run to advertise the dance. The first prize will be one bid. Second and third prizes are half bids.

Junior Dance January 11

At a committee meeting last Friday the juniors formally decided to hold their dance on January 11.

Arrangements for the orchestra and ballroom are now being made. In all probability the dance will be held outside of the loop at either the Medinah Michigan Avenue club or the Lake Shore Athletic club. Two hundred bids will be available at \$2.00 a bid.

There will be a meeting of the committee next Friday to make final arrangements. D. Graham heads the committee, which is composed of D. E. Howell, I. M. Hughes, G. W. Ormsby, R. Paulsen, and F. L. Smith.

Sophomore Dance Later

Plans are being made for the sophomore dance to be held about the middle of February.

The freshman committee is planning for a freshman smoker to be held soon.

Chemical Society to Hold Meeting Shortly

Conducting an interrogation of past and present members, the officers of Armour Institute's branch of the American Institute of Chemical Engineers, are seeking to ascertain the type of speaker and the most popular subjects to present at its series of meetings which will begin in the near future.

Membership in this organization, sponsored by Professor McCormack, is open to all students past their freshman year who are interested in chemical engineering.

The present officers are J. Weiland, president; R. Miller, vice-president; J. Humiston, treasurer; and C. Reisz, secretary.

Social Season Begun by Chemicals' Party

The junior chemicals started the social season of the year with a party last Friday. Approximately 25 couples attended the affair, which was held on the West side, at the Chicago Craftsmen's club, Washington Boulevard and Sacramento Avenue.

The price paid for this night of hilarity was three-fourths of a dollar per bid. Although the bids were not as elaborate as some, they identified each of the members adequately. The bid was a silver gray card on which a benzene ring had been impressed.

An orchestra, entertainment, and refreshments were provided. The evening was spent in dancing, clowning, and playing bridge and pinocle.

In holding this party, the chemicals deprived two organizations of the honor of holding the first social event of the season the Arx with their dance, and the *Armour Tech News* with its smoker.

Professor B. B. Freud acted as faculty sponsor of the party.

Alumni Will Hold Winter Banquet

Tuesday, November 20, at 6:30 is the date for the winter banquet of the Armour Alumni Association. The scene is the Medinah Michigan Avenue Club, 505 North Michigan avenue.

Each class is planning to get their gang together to help make the meeting a great success, and to renew old friendships with their classmates, the faculty and the trustees. There will be a musical program, given by the 100 boys of the Armour glee club and orchestra under the leadership of Mr. O. Gordon Erickson.

Report to be Presented

Mr. James D. Cunningham, president of the Board of Trustees, and Dr. Willard E. Hotchkiss, president of Armour, will give addresses. Also, the report of the Public Relations Committee of the Board of Trustees will be given, all of which should be of great interest to the older alumni.

A large turnout is urged in order to help make changes in the constitution of the alumni association, so that it may better serve present day requirements, and to vote on any other motions that may be presented for consideration.

Urge Large Attendance

Professor D. P. Moreton, secretary of the association, is desirous that all Armour alumni and faculty send in \$1.25 with their correct addresses and business connections, and a ticket will be sent to them immediately. Both Professors Moreton and Schommer are working extremely hard to have a large attendance so that everyone will have a bigger and better time.

Camera Club to Meet Tomorrow

The Camera club, the newest organization on campus, will hold its first meeting tomorrow at five o'clock in the electrical lecture room.

The primary decision to be reached at this meeting will be the selection of a suitable hour for future gatherings. It is essential for plans of organization that all the men who have signed up for the club be present. Following the selection of a suitable hour for future meetings, officers will be elected.

Professor Penn to Speak

Professor Snow, of the Electrical Engineering department will act as the faculty sponsor. Professor J. C. Penn will present his experiences and pictures taken while he was in the tropics.

Approximately 40 men have signed the sheet on the bulletin board in the foyer of the Main building. No limiting number of memberships to the club is set, and all students interested are urged to join.

Exhibit Planned for Open House
Some of the students have had valuable professional experience, and a few possess movie cameras. A space in the library has been set aside to exhibit the prints. All of the pictures will be exhibited on Open House night, one of the most interesting events of the annual Junior Week held in May. The movie camera men will bring their projectors and entertain the club members with movies.

Search for Members for Dance Orchestra

Armour is being searched from the south end of Chapin hall to the north side of the Machinery building, and all points in between, for capable men who are interested in joining a dance orchestra.

Those who desire further details should see Bernard Chayes, the budding genius who is the originator of this move for more and better music at Armour. He is especially interested in securing a saxophonist and a drummer.

FOUR MEMBERS OF A. I. T. FACULTY IN WHO'S WHO LIST

Hotchkiss, Carpenter, Zettler, Penn Lead Many Fields

LIFE HISTORIES TOLD

Four members of the Armour faculty have been included in this year's Who's Who, being thus distinguished throughout America for their leadership and ability in their respective fields. President Hotchkiss, Professor Carpenter, Professor Penn, and Professor Zettler are the men listed.

President Hotchkiss was born in Amber, New York, on June 20, 1874. He studied at Cornell, later in France and Germany, and received his LL.D. at Northwestern university in 1927. Prior to 1933, he taught at the following universities: Pennsylvania, Northwestern, Minnesota, California, and Stanford. In 1910 President Hotchkiss was supervisor of the Cook County census. At present he is the educational advisor to the American Institute of American Meat Packers.

Carpenter Leads in Many Fields

Professor Carpenter, a metallurgist, was born in Georgetown, Colorado on October 19, 1877. He attended Ohio and Northwestern universities, receiving his master's degree in 1914. From 1898 to 1899 he was assistant superintendent for the Deadwood and Delaware Smelting and Refining company, Deadwood, S. D. In 1900 he was a junior partner of the firm Carpenter and Carpenter in Denver, Colorado. He was research metallurgist for the American Vanadium company from 1912 to 1918. Professor Carpenter is the constructor of the 20 1/2 inch telescope used by the Elgin observatory for the daily Arcturus ceremony at the Century of Progress exposition. Another of his accomplishments was the invention of a method of covering pipe with lead.

Penn Is Armour Graduate

Professor J. C. Penn was born in the Netherlands on November, 1881, and came to the United States in 1890. He graduated from Armour in 1905. From 1905 to 1910 he was assistant city engineer for the city of Chicago and in 1910 he received his C. E. degree from A. I. T. He has devoted his time to the Institute since then, as a teacher in the department of civil engineering and as dean of engineering.

Professor E. R. Zettler, a sculptor, was born in Karlsruhe in Baden, Germany, on March 30, 1878 and came to the United States at the age of four. He was an educator in the Chicago public schools and now teaches in the Art Institute at Chicago. He was awarded the gold medal of the Chicago Society of Artists in 1923. Prof. Zettler is the designer of the official medal for A Century of Progress exposition, 1933.

Chess Club Members to Hold Tournament

A tournament among the members of the chess club has been planned to start next Thursday. All members who wish to enter the tournament are requested to speak to Robert Hella before then.

Soon after the internal competition, the club will hold a number of matches with outside clubs. Final arrangements are being made for a match with the Polnesian Chess club to be held in the near future. As the Armour Chess club is a member of the Illinois Chess association there will be a chance to arrange some good matches.

There are only a limited number of chess sets now available, but if the demand continues more will be obtained. So far, indications are that chess is rapidly becoming a popular pastime at Armour.

W. Setterberg Gives Address

That all Armour graduates shall receive proper employment service was the theme of William Setterberg, the placement officer, in an address last week before an audience of seniors.

Outlining the important characteristics of a sound engineer, he advised them on their search for future employment. He suggested that data of all graduates with respect to their background, capacity, and experience be gathered and published in the form of a booklet. These would be forwarded to all important industrial concerns of the country. With these pamphlets in hand the prospective employers could select just the type of man they want.

This proposal offered a subject of furious argument, opinions being approximately evenly divided. However, an agreement was reached whereby a committee of representatives from each of the engineering departments was to be formed to investigate the effectiveness and the expense of the plan.

Drama at Armour Takes Salty Turn

Friday, November 23, at 10:30 a. m. in the assembly hall of the Mission building will be sailing time for the year's first drama of the Armour Players. Under the guidance of Captain Hendricks a crew of engineer actors will present a maritime drama to the students of Armour.

A marked change has occurred in the cast of characters previously announced. The players now on deck are as follows:

Yank.....	T. F. Jones
Smitty.....	A. Kulpak
Ivan.....	M. Pantone
Scotty.....	R. Weissman
Swanson.....	H. Bauermeister
Driscoll.....	A. Schreiber
Cocky.....	E. C. Hoyer

Captain Hendricks announces that there is a little high wind in the tops'ls this year; the little catch is one thin dime to be devoted by those who appear on the scene. This financial assistance by the students will be used for new scenes and costumes, since the old rigging was deemed unseaworthy.

Most of the players have sailed the seven seas in dramatics before, either at Armour or at a preparatory school, so an hour of fine entertainment is in the hold for everyone.

Transportation Will Be Subject of Movie

"Trails to Rails," is the title of a motion picture to be presented before members of the Armour branch of W. S. E. next Friday, November 16, in the assembly hall.

There will be two reels portraying the development of American transportation. The picture will show the important part that transportation has played in the growth of the nation. Transportation has played an important part in the development of Chicago and the metropolitan area as will be shown.

Several speakers have been obtained for future meetings. Among them are a representative of the Chicago Plan Commission, and a man from the war department who will give an illustrated talk on Illinois Waterways. "The Building of a Modern Street Car" is the title of a moving picture to be held in the near future.

Alumnus Is Elected County Commissioner

William N. Erickson, M.E. '20, was elected county commissioner on the Republican ticket in the election last Tuesday. He was active during his days at Armour, having been a member of the basketball team, A.S. M.E., Delta Tau Delta, Sphinx, and Honor A.

LE BAL AUTOMNE TO BE PRESENTED BY ARMOUR ARX

Friday Evening to Bring Realization of Well Planned Affair

BIDS ARE \$1.25

Once again the architects of Armour Institute make to the student body their annual offering of an evening of real entertainment—Le Bal Automne, to be presented by the Armour Arx atop the Steuben club on Friday, Nov. 16.

Cost of Bids Is Low

Bids to the affair cost one dollar and a quarter and may be bought from any architect and many engineers. Tickets are also on sale in the lobby of the main building.

Wilson Barnett will conduct his well known orchestra to furnish music for the dance. Barnett's orchestra has been coached by Hal Kemp, the famous orchestrator who is now on tour, and promises to offer to the crowd many new, delightful arrangements of the modern melodies.

Chaperoning the affair will be Dean H. T. Heald, Prof. W. Hendricks, and Prof. J. F. Mangold, all of whom will, of course, be accompanied by their wives.

Urge Large Turnout

The architects have expressed the desire that many engineering students will attend the affair because it is felt that closer association of the two groups will be of mutual advantage.

The fact that all the junior and senior architects will have, by next week, completed their projects will help to make the dance a happy one.

Cooling Processes Topic at Meeting

Professor Edwin S. Libby of the Mechanical Engineering department, has just returned from the annual conference of the National Association of Practical Refrigerating Engineers held last week in Springfield, Illinois. The meeting lasted four days, from November 1 to 4; its object being "to further the education and elevation of the members in the art and science of refrigerating engineering."

Among the important features were the presentation of technical papers on the subject of refrigeration, with direct reference to its application in dairy, brewing, ice making, and air conditioning. There were also discussions on special refrigerants, heat transfer surfaces, and automatic valves.

Being chairman of the Educational and Examining Board, Mr. Libby conducts the association's publications, the bulletin, the lectures, and the future programs. In addition, he conducts the "Question Box" of the association's magazine, answering any and all of the complex questions of the practical engineers. In this capacity he assisted Professor Motz in the preparation and revision of the text, "Principles of Refrigeration," which originally consisted of a series of lectures delivered at and published by the association.

News Staff Smoker Scheduled Tomorrow

A smoker for the members of the *Armour Tech News* staff will be held tomorrow evening at 7:30 p. m. at the Beta Psi fraternity house, 3337 South Michigan Avenue. All members of the staff have been invited to attend the affair.

The evening is to be a social gathering with cards, ping pong, and billiards the sources of entertainment. Refreshments will be an added attraction.

Armour Tech News

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



Per Year Single Copies, 10 Cents Each

MANAGING BOARD

Editor-in-Chief.....Edwin N. Searl
Managing Editor.....Richard D. Armsbury
Sports Editor.....William B. Ahern
Business Manager.....Robert J. White
Faculty Advisor.....Walter Hendricks

EDITORIAL DEPARTMENT

News Editor.....L. J. Beckman
Assistants.....F. D. Cotterman,
R. R. Johnson, R. S. Kercher
Copy Editor.....O. P. Frellinger
Assistants.....V. J. Kropf,
H. S. Nachman, G. A. Zwissler
Proof Editor.....J. F. Humiston
Feature Editors.....C. R. Bristol, H. Levin
Assistants.....A. J. Rosen, J. K. Morrison
Editorial Writer.....G. W. Ormsby
Columnist.....Robert Hella
Staff Photographer.....J. M. Bard
News Reporters.....N. Balai, B. Chase,
J. J. Doudera, S. L. Ender, E. W. Engstrom, J. Gal-
andak, A. M. Galler, W. G. Gartz, W. S. Hamlin,
F. D. Hoffert, R. H. Knabe, J. Laskiewicz, F. Leason,
R. A. Peterson, M. B. Stevens.
Cub Reporters.....R. T. Duffy, G. B. Eng,
S. E. Evanoff, B. Gamson, O. Hampton, F. B. Har-
man, M. J. Hodes, L. Lange, J. Morozoff, N. Gerber,
L. Parker, A. Schreiber, P. R. Schultz, J. Sheehan,
B. Sills, R. T. Smith, T. Speer, R. Weissman.
Assistant Sports Editor.....J. O. Larson
Sports Reporters.....G. H. Bergquist,
J. M. Kubert, E. J. Pleva, R. Worchester.

BUSINESS DEPARTMENT

Circulation Manager.....R. M. Lundberg
Circulation Assistant.....E. C. Hoyer
Advertising Manager.....C. L. DuSelle
Business Assistants.....N. Disenman, R. H. Hedin,
W. A. Hotzfeld, W. F. Lisenhan, E. J. Simek, R.
W. Straus, D. C. Timberlake, F. A. Wertzler.

Vol. XIV. NOVEMBER 13, 1934 No. 8

A Plan To Be Considered

In the senior class meeting, held last Wednesday morning, there was brought before the senior class a proposition which in our opinion deserves further, serious consideration and finally adoption in some form or other by the class of 1935.

The plan was presented in a tentative form by Mr. William N. Setterberg, Personnel Officer of the Institute, and in brief has the following general outline: In order to reach the market for engineering college graduates in a more thorough manner, the senior class should print a booklet for each engineering department, in which would be a single sheet for each graduating man of the department, containing certain important information about the man. These booklets would be sent to various industries of the country and especially in the Chicago area who hire or should hire engineers. The plan in a sense is a publicity and advertising campaign for the graduating engineer.

The booklets would bring to the attention of the proper official in each industry the graduating class of Armour and serve as an introduction to the men who might consider hiring engineers.

When the booklet is published there would be published also extra sheets for each man, which could be used very conveniently in any letters of application a senior would write.

Of course, there are many details which will have to be planned to make certain the success of the enterprise. Some of these are: the exact make-up of each individual sheet, the method of acquiring this information, the cost of printing the booklet, and the apportioning to each student the cost of printing and mailing.

This last item raises the problems: Who shall pay for the booklets and should every senior be required to be a part of the plan? Obviously, there will be some few seniors who will not need this service, such as the senior fire protection engineering students, who are under contract to work for the three years after they graduate, and other lucky individuals who already have a position promised them upon their graduation. It seems only logical that these men should not be required to be a part of the plan.

We have heard a number of objections to the added expense of publishing the booklet, but it seems to us the expenditure would be a good investment since it would be an attempt to secure employment upon graduation from school and if the booklets were well designed and well presented the whole project could do nothing else than reflect credit on Armour Institute and its present senior class.

We hope the committee, which is now being formed will consider the matter carefully, since it seems that the project would give a majority of this year's graduating class a necessary service.

"The Slipstick"

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

The Tale of Maurice Alexander

I
*A freshman whose name was M'rice
Had his trousers pulled off of his
knees,
The sophs answered his pleas,
With a "No, you big cheese!"
So his kneecaps proceeded to freeze.*

II
*But Alexander is always prepared
So into the school store he fared.
Of pants, he found there,
A superfluous pair
Altho white, and quite tight, he didn't
care.*

III
*Alexander said later that day,
"My trousers that drifted away,
Were simply discovered
And by me recovered
But thank God for white slacks and
way."*

Old Joke No. 1

She had no principles but, oh, how she drew interest.

* * *

Another week, another column!

Here is a pun-tee pun on the persistent Gadfly of-
fered by a committee.

"I wouldn't ride the 'L' to school if I Gadfly."

* * *

And a good little ghost, I have found, is one who
does not spook until spoken to.

* * *

Left to Its Fate

"I went to the dentist yesterday."

"Does the tooth still ache?"

"I don't know; he kept it."

* * *

Athletic Jane

Even after we had spent a bewildering evening
watching a girls' basketball game, we were still unable
to discover the object of the contest. Following the play
of one particular bright star, we made note of her
activities during the course of the game:

1. Fixed her hair 32 times.
2. Attempted to stuff middy into bloomers 397 times.
3. Pulled up stockings 131 times.
4. Jumped up and down, waved her arms and screamed at short intervals.

* * *

WANTED—Man for gardening, also to take charge
of a cow who can sing in the choir and play the organ.
Westmont (Illinois) paper.

* * *

What's in a Name?

Waiter: "Here is some very good canvas-back duck,
sir."

Business Man (after chewing): "Here take the can-
vas back and bring in the duck."

* * *

JUST LINES—

JOHNNY ASKED—Mary refused.
JOHNNY BEGGED—Mary blushed.
JOHNNY PLEADED—Mary pouted.
JOHNNY INSISTED—Mary gave in.
So little Johnny carried Mary's books for her.

* * *

Blessing in a Name

She (sotto voce): "Georgie, dear, it's a burglar!"
Me: "Sh-h, don't move, maybe he can get that win-
dow up; it's the one we haven't been able to open since
the painters left."

* * *

SURE EVIDENCE ON OUR CAMPUS

It is evident that the handsome young man in the
collar ads hasn't worn that collar all day.

* * *

Constant Tribute

The fellow who invented the first fountain pen is
dead many a man, without realizing it, is wearing
mourning on his fingers.

* * *

Ode To A Nag

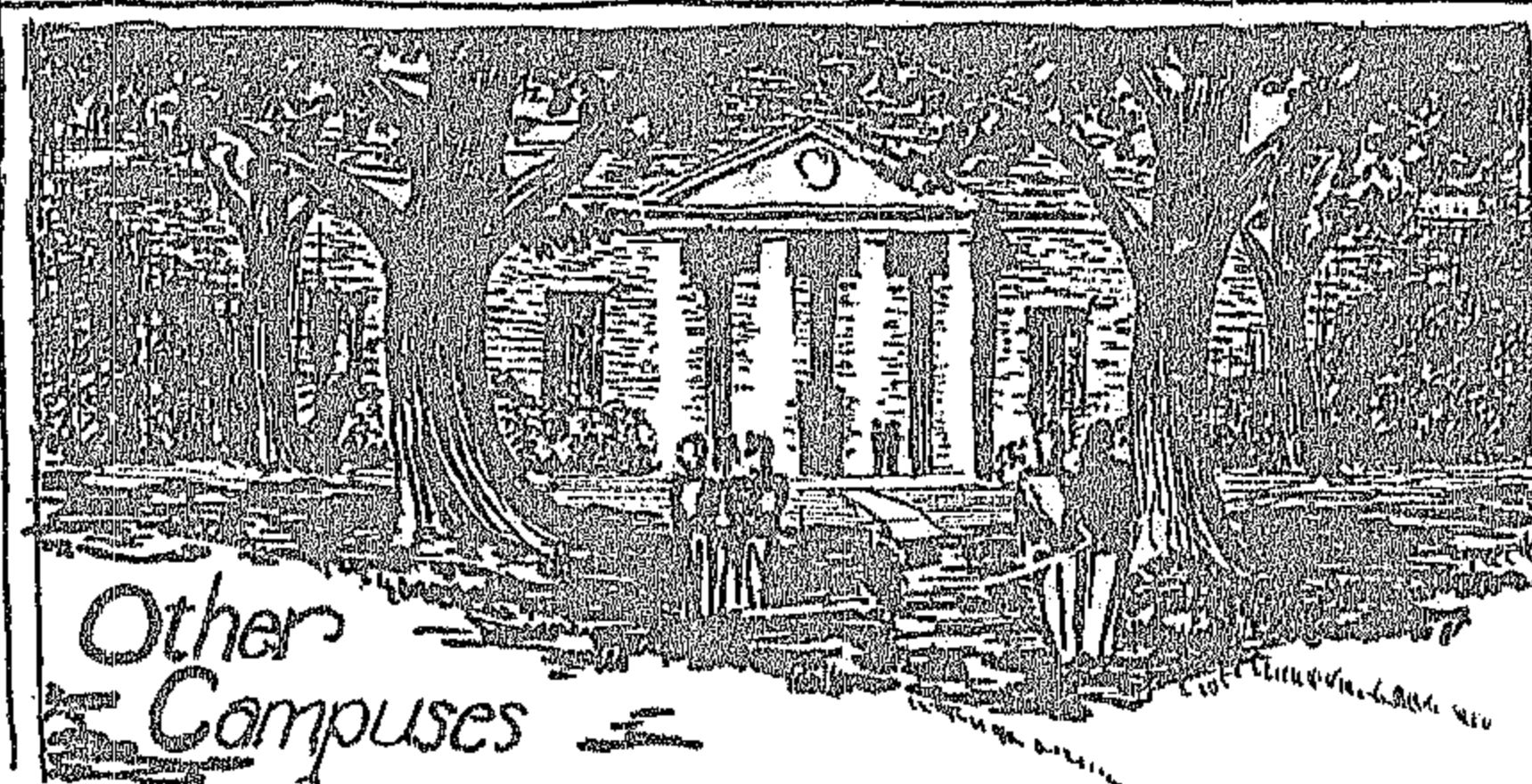
*Oh horse you are a wondrous thing,
No horns to honk, no bells to ring,
No license buying every year,
With plates to stick on front or
rear.
No clutch to slip, no valves to stick;
You start yourself without a click.
Your spark plugs never miss or fuss,
Your engine never makes us cuss.
Your frame is good for many a mile,
Your body never changes style,
Your wants are few and easily met,
No doubt you have something on
the auto yet.*

Teacher: Who discovered America, Robert?
Robert: Ohio.
Teacher: No; Columbus did it.
Robert: Yes'm. Columbus was his first name.

* * *

*It's not what you say
It's not what you do
It's what you laugh at
That proclaims you.*

R. H.



By John K. Morrison

Students of the North Carolina State College of Agriculture and Engineering are going to select the most popular professor in the school. The students will have a choice of three on the first ballot. A final vote will be taken on the professors getting the highest number of votes in the first ballot. Could we try something like this?

The story is told of a student at the University of Oregon, that one day, after having a slight argument with a professor, he turned his back upon that personage and started to walk off.

"Are you trying to show your contempt for me?" asked the professor sternly.

"No sir," was the reply. "I was trying to conceal it."

From the Augustana Observer:
Girls are like final examinations—they keep a fellow up all night worrying about them, and then ask the most foolish questions.

The hero of the day at the University of Illinois is Graham Lynch, who, due to a slight technicality, received a perfect zero on his first impromptu theme. It seems that when he had completed his theme he found to his amazement that the rest of the class had used punctuation marks. So, Graham, in a moment of inspired action, added the following piece at the end of his theme: "Note to Instructor—;:;:;?;?;?; Please insert these wherever necessary."

French persisted in calling the cow "he" until the professor stopped her short and said:

"He is she, miss. We milk her in the next sentence."

Debating is like apple pie: a lot of apple sauce covered up with crust.—Duquesne Duke.

Students at Indiana university will select the five "best dressed girls on the campus."

"If all the co-eds on this campus who don't neck were placed in this office," asks the Michigan Daily, "what would we do with her?"

Somebody mistook California Tech's veteran football coach, "Fox" Stanton, for one of his players in a scrimmage last week, and as a result Mr. Stanton is directing his team with a crutch, while nursing a broken leg. That leaves him just one leg to Stanton.

Bill Bonthron, Princeton's great miler and holder of the 1500 meter record, has flat feet.

The University of Oxford is said to have been founded by King Alfred in 872 A. D.

Evidence that crime paid at least one criminal has been discovered by Thelma Roberts, Columbia university journalism student, who ferreted out the story of Wicked John Goode, a notorious criminal who got his start in the old West. "He worked through Kentucky" in the 1880's.

After 50 years of collecting the wages of crime in the form of prison terms in a half dozen states and constant hounding by police, Goode reformed in a Bowery Mission and made the most comfortable living he had ever enjoyed by lecturing on his criminal career. He made crime pay.

Apparently, *higher education obtained by his second cousin, Mama Blacksake, and her three young, a black-foot pilot snake is slithering somewhere among the textbooks of the Natural Science library at the University of Kentucky. The textbooks have proved very dull to students but very alluring to snakes.*

The aeronautical department of Georgia Tech received an autogyro presented by the Coca Cola Company. This machine set a world's altitude record two years ago. It will be used for scientific flights and research work in Atlanta and vicinity.

Two weeks ago a statement was made in this column that a student of the Detroit Institute of Technology travels 108 miles daily to and from school. This record is bettered by John Roberts of Armour Tech, who travels 115 miles daily between Crystal Lake, Illinois, and Chicago. He travels about 20,000 miles during one school year. Can you beat this?

The campus of Berea college in Kentucky is literally in the sticks. It embraces 5,400 acres of forest.

A class in French at the University of Maryland was orally translating a story about a cow from

STUDENT MUSINGS

NOVEMBER

November is a month which would like to become winter, but which doesn't quite get the nerve. It is usually composed of ten rainy days, ten cloudy days and ten snowy days or freezing days with a pinch of sunshine between the various divisions. It is useful because it makes December seem pleasant in comparison.

In November the trees finish disrobing and as they wave their bare limbs against the sky, the wind converses about them. There is nothing more talkative than a November wind. Along about 10 P. M., on a bleak, damp night, a November wind likes nothing better than to come along and hang around the entire evening reminding you that the rent is overdue, and that it is a long time until spring, and that death by freezing is particularly sad, and that unless you pay your last winter's coal bill pretty soon you will have to go to bed to keep warm. A November wind is more pessimistic than anything on earth, except a Wall Street operator during a spasm of public honesty.

November was invented by the Romans, who did so many terrible things in the early Christian era. It was so named because it was the ninth month at that time. The growth of business has compelled the addition of two more months since then, both of them being of much better quality.

In November automobile, tennis, and lawn socials begin their long winter's sleep, but football is very popular because it is easier to keep warm in a football game than it is in a house where the furnace is being repaired. Football in November is a game to decide whether the player will dent the ground or the ground will dent the player. The ground usually wins. Corn husking and riding to the polls in an opposition carriage are also two popular outdoor sports during this month.

There are three great uses for the month of November. It kills malaria, flies, and political campaigns. None of these are able to survive the climate of this month. If it were not for November political campaigns might go right up to Christmas. Most of our public officials are elected in November, but we cannot justly blame the month for this.

November was first put prominently on the map by the Pilgrim fathers. About 1630, when they discovered that there was only a few more days of the month left, they instituted a Thanksgiving festival, which has been observed ever since with increased gratitude and devotion.
P. S.

TRY THIS ONE

About 1621, a new edition of Diophantus's Arithmetica appeared in France and a copy came into the possession of the celebrated mathematician, Fermat. After his death this note was found on one of the pages: "It is impossible to partition a cube into two cubes, or a biquadrate into two biquadrates, or generally any power higher than a square into two powers of like degree. I have discovered a truly wonderful proof of this, which, however, this margin is too narrow to hold."

More than three centuries have passed but no mathematician has been able to offer this proof. They all wish that the margin had been wider. In modern terminology Fermat's statement can be formulated in the following way:

Show that the equation
 $X^n + Y^n = Z^n$
where x, y, z and n are to be integers, is impossible when n is an integer greater than two.

Euler showed the impossibility when n is 3 or 4; Dirichlet proved it for n equal to 5. Yet, the general proposition has not been proved. Can you prove it?

tering a sound and when asked what animal she represented said, "a turtle." The sophomores sat with their mouths hanging open after the answer.

"Sundial" Martin, halfback with Georgia Tech, is from the mountains of South Carolina and got his nickname from gazing at a sundial and trying to get drinking water from it.

F. P. E. S. Hears J. G. Hubbell Talk

Topic Is "Moral Hazards of Fire Insurance"

"Moral Hazard of Fire Insurance," was the subject matter of the talk presented to the Fire Protection Engineering Society by Mr. Joseph G. Hubbell of the National Inspection Company at a meeting held last Friday.

Mr. Hubbell introduced the subject by first explaining the state of affairs of the method of obtaining business in the insurance world. For clarity he assumed a small town with no fire protection. In the town is the main street 125 feet wide, with stores on both sides, including the bank, and insurance agency. From one to five insurance companies are represented by the agency, with any one of the five being able to write all of the town business. With the rates fixed by the inspection bureau, the only possible way for competition to enter into the picture would be through commissions paid. This is very true, there being three different groups, the Western association companies, the Western Bureau companies, and a few free lancers, all paying different commissions to the agents. The latter group is willing to pay large commissions and thereby are able to obtain better classes of risks.

Moral Hazard Not in Rate

He then went on to explain what rates do not do. Rates are comparative estimates of fire hazard. The rates determine the premium to be paid and, in the mind of the insured the premium, is a tax and is always too high. Due to the keen competition in the business, every inspection becomes a detailed analysis. In a building that is unexposed and vacant the only hazard involved is lightning, whereas as soon as it is occupied there are occupancy hazards and moral hazards involved.

The rate on a risk makes no allowance for the nature of the individuals insured. The personal element determines the probability of fire more so than any other hazard which may be measured in the making of the rate. The moral hazard is determined by the owner and the property. In the case of an honest owner and profitable property, the moral hazard is good, whereas when the owner is dishonest but has profitable property the moral hazard is questionable, but where the owner is dishonest and has unprofitable property the risk is considered as a dangerous undertaking.

For example, when a person builds a new building and sells his old property it is liable to very decided changes under the new management. In buying the property and then renting it, it will be first necessary to make changes in the building's appearance, and this must be done with the view that the changes will be paid for by the prospective customers and not profit already derived. The owner will therefore cut down on his expenses as much as possible, substituting poor materials for what is proper. Here the hazard has increased greatly over the original, because of the new occupants and methods used in obtaining them.

Adverse Risk Loss High

In closing, Mr. Hubbell explained that where a systematic administration of the care of the property was apparent and continued, the chances for success of the management are great, and the risk becomes desirable. The business referred to the inspection company for inspection are usually sub-standard risks. It is true that losses in adversely reported risks are much greater than should be expected, whereas, losses in desirable risks are always less than would seem reasonable to expect from fire loss records. Rates therefore do not entirely show the selection of business for underwriting. It is very necessary that the management be taken into consideration before the risk is accepted for underwriting.

Upon being questioned, Mr. Hubbell stated that the National Inspection Company was the survival of company efforts to inspect their own risks. The company makes reports on risks only on request. Inspections usually include only high valued property with decidedly heavy hazards.

Arx News

A few weeks ago this space contained an article referring to the senior arx being trapped between an incinerator and a Duplex apartment. Well, such was the case, and when the debris was finally cleared after the judgment of the "Housing Development" projects, the lucky survivors were Stew GRANGER, Wally SOBEL, Bill NICHOLAI, and Carl SEABURG, all of whom received mentions.

Of course, the usual post-mortem was held, but in spite of the impartial criticism by Mr. George CARR, the outside man on the jury, those who "GOT SOCKED" and those who did not fare so well were not CONSOLED.

Nor was the entire project without its moments of relaxation. For instance many enjoyable dinner-hours, and we might add that they were a little riotous, were spent at "RAK'S." On one particular evening a free-for-all sham battle took place. It wasn't exactly a WET party; but nevertheless, water-soaked napkins were used for ammunition.

If you read this at nine o'clock Tuesday morning, Nov. 13, you still have EIGHTY-FOUR HOURS before attending the ARX DANCE.

Who do you suppose visited the seniors ON CHARENTE last Tuesday? You'll never guess in a million years. . . . GUESS! GIVE up? They were Bruce LOCKLING and Sholto SPEARS, and both diplomatic enough not to make any comments on the projects!

A little birdie relates the one about Irv ADDIS calmly whistling and leaving the ART INSTITUTE with a package of what was disguised as a lunch box under his arm. However, the BIRD is on IRV; because it wasn't a box of lunch, but a box of clay. J. WAGNER still has his eyes open, IRV!

Pity the poor juniors! Today their DUPLEX houses are due. Now pity the poor sophs! Their LIBRARIES are due next week. PITY, PITY, PITY! Slowly but SOURLY we're turning to obituaries.

ODDLY enough Johnna BENYA made a personal appearance the other day. Glad to see you, John, and where have you BENYA? (Apologies for this putrid pun are due H. Hal SLAVITT.)

Also when Charlie BEERSMAN criticized that someone had designed housing courts that were too closely spaced, Monsieur SLAVITT again came through with, "Yep, they're too close-together." Get it . . . CLOISTER courts! Would that Phil FARO, punster emeritus, were back in form! He'd give this guy SLAVITT a run for his punny.

Chuck HANDLER of the formidable senior double E's touchball team which trounced the mechanicals to the tune of 14-0 announces a formal challenge to the ARX, whose football has been idling for the past four weeks in Stew GRANGER'S locker. After 'em BOYS!

After beating the double E's (next week) these same versatile ARX will tackle the EMERSON PRIZE on Nov. 20. And if they can still take it on Nov. 26, they will throw the "Roman House" arched for a loss.

EAGLE EYE.

Junior Chemicals to Visit Softening Plant

This afternoon the junior chemicals will make an inspection trip to the Hinsdale water softening plant. Here the hard water forming materials are removed by precipitation. The lime and soda ash treatment is used for their removal.

The village of Hinsdale, like all the remaining villages and towns surrounding Chicago, obtains its water from deep wells. These waters are very hard, since large quantities of calcium and magnesium salts are present. The other villages do not have softening plants; individuals who require soft water must soften it themselves.

Organize German Conversation Club

Last Thursday morning a small group of students met with Herr Doctor Fisher and spent a profitable hour in German conversation. In fact they had such a good time that they have decided to organize into a German conversation club. No topic of interest will be excluded from the conversation, which will eventually be entirely in German although now some questions are of necessity allowed to be asked in English.

Herr Doctor Fisher is using his influence outside of school to get special rates to the Kino, a German theater, and invitations to strictly high class German affairs. In preparation for these, the group will at the next meeting pretend they are at one of these affairs and go through all the motions talking German. Topics now under discussion are a German student's social life, formalities observed in Germany, and several books not allowed to be printed in the English language.

Der Deutsche Klub will meet every Thursday morning at 8:30 a. m. in F Mission. All those desiring to increase their speaking German vocabulary, their knowledge of German customs, and to actually participate in German social life with very little expense involved are invited to come.

Alumnus Is Officer of Spring Company

C. R. Simmons, a civil engineering graduate of the class of 1915 was chosen secretary of the Nachman Springfield company at its recent election of officers and directors. Mr. Simmons thus holds a position of responsibility in one of the large spring manufacturing organizations in the middle west.

Junior Mechs Visit Loop Building Plant

Through the courtesy of Roscoe B. Harris, M. E. '02, chief engineer of the Conway building, the junior mechanicals made an interesting inspection trip to the power plant there last Friday.

Accompanied by Professor Perry, the juniors had explained to them the operation of the various machines which supply electric power and heat to the building. This included several Corliss engines, among which was one that was being taken down for repairs, a diesel engine, the boilers, and the ventilating system. An exploration into parts of Chicago's freight tunnel system, a branch of which runs immediately beneath the building, was also made.

Mr. Harris is the father of Don C. Harris, a junior in the department of mechanical engineering here, and received his M. E. degree at Armour in 1908.

Insulators Subject of Talk by Peebles

Prof. J. C. Peebles spoke before the downtown W. S. E. yesterday in the Engineering Building, 205 W. Wacker Drive. In his talk, which was on "Thermal Insulation," he discussed the properties, manufacture and use of bulk, blanket, board, and reflective insulators.

Some of the most common bulk insulators are refractory materials, such as asbestos. The most common type of blanket insulators are hair or felt mats. These are used where a limited space is available. Pressed wood fibre, wheat straw, corn husks, jute and hemp form the most familiar types of board insulators. Aluminum foil pasted to a suitably stiff material is the usual form of reflective insulation. This type will turn back as much as 50 percent of the radiant energy.

Fraternity Notes

PHI PI PHI

Gamma chapter of Phi Pi Phi takes great pleasure in announcing the formal initiation of: Bernard Phelan, C.E., '37. Lorentz A. Johanson, Arch., '37. Frank Smetana, Ch.E., '36. The Mothers' Club gave a tea at the house Sunday and everyone present had a most enjoyable afternoon. Brother Ray Stellar, '29, gave a very interesting talk about his trip to Europe last summer, at the Junior Meeting of the Western Society of Engineers last Thursday evening.

DELTA TAU DELTA

The meeting of the Mothers' Club was unavoidably postponed from last Sunday. The meeting is to take place next Sunday afternoon. Plans for the Pledge dance have now been well formulated and rapid progress is being made towards the staging of a very successful affair. The committee under the able leadership of Norman J. McGuone is working hard. Brother Harry Green, an alumnus of the Washington State chapter and now national traveling secretary is staying at the house for a few days.

BETA PSI

The Mothers' Club held their regular monthly meeting last Tuesday afternoon. They spent the afternoon playing bunco, and discussing coming events.

The Thanksgiving dance will be held on Saturday, November 24, and the Christmas dance on Saturday, December 22. Both will be orchestra dances.

PHI KAPPA SIGMA

Quite a number of the fellows journeyed out to our chapter house at the University of Chicago for the

annual Fall Frolic last Saturday night.

The Phi Kap Mothers' Club held their second meeting of the school year on Sunday, November 11. Plans are being formulated which insure a very successful season.

Under the direction of Brother Biegler, the basketball team will hold its first practice tomorrow night.

Brother Fraizer, who is now attending Purdue, and several other members of Alpha Xi chapter stopped off at the house while in town for the game with Chicago.

SIGMA ALPHA MU

Plans for our autumn, or Thanksgiving party are being organized by Fra Bernstein, for which reason we expect it to be a great success.

Other campus fraternities should take notice that we expect to be the "dark horses" of the ping pong season. The challenge laid down by Phi Kappa Sigma last week is hereby accepted.

Elaborate rearrangement of our new rooms has been effected, so that with the addition of a game room downstairs we find ourselves becoming more comfortably and better situated each day.

KAPPA DELTA EPSILON

Alpha chapter of Kappa Delta Epsilon was recently honored by a visit of one of its well known alumni, Milton Shapiro.

Under the guidance of brother Ikem and the management of brother Kubert, the basketball and swimming teams are progressing favorably and are awaiting the beginning of the season's inter-fraternity athletics.

A Halloween party was held at the house Saturday, October twenty-seventh, and a good time was had by all.

Mort Fineman, our social chairman, announces the resumption of the monthly banquets at the Allerton House in the near future.

I like that
fragrant Granger

... in a
common-sense
package - 10c

GRANGER
ROUGH CUT
PIPE
TOBACCO

In the manufacture
of Granger Rough Cut Pipe
Tobacco the Wellman Process
is used.

The Wellman Process is dif-
ferent from any other process or
method and we believe it gives
more enjoyment to pipe smokers.

... it gives the tobacco an ex-
tra flavor and aroma
... it makes the tobacco act
right in a pipe - burn
slower and smoke cooler
... it makes the tobacco milder
... it leaves a clean dry ash
- no soggy residue or beel
in the pipe bowl

LIGGETT & MYERS TOBACCO CO.

Dr. Hotchkiss Discusses Finances, Future Plans

(Editor's note: In this, the second half of the first general report presented by Dr. Willard E. Hotchkiss to the Board of Trustees, the president discusses the financial standing of the Institute, the plans for a future site and plant, the future position of the institution in the Chicago area, and the administration's policy of student loans and scholarships.)

Finance and Deficit

In times like the present there is naturally a measure of anxiety concerning finance, which the faculty shares with the trustees and the administration. However, an operating deficit of \$50,000 for the current year compared with the deficit of past years is distinctly reassuring.

Reference has already been made to gifts of \$45,000 in fulfillment of previous pledges during the second semester of 1932-33 when the present administration began. This amount constituted in the main final payment upon contributions to a maintenance fund which had been raised to carry the Institute through a five-year period from July 1, 1926, to June 30, 1931. Alumni, faculty, and students contributed a substantial amount to finance the work of the development committee, to which reference was made early in this report. Together, the maintenance fund and the development fund totaled nearly a million dollars contributed roughly in the ratio of two-thirds from large individual contributors and one-third from alumni, faculty and students.

Due to extraordinarily careful management, the maintenance fund actually covered annual deficits for a period of seven years ending July 30, 1933, instead of the five years originally contemplated. The annual operating deficits from July 1, 1926, when the maintenance fund became available to the present time have been as follows:

1926-27	\$148,600
1927-28	146,700
1928-29	136,200
1929-30	143,300
1930-31	147,700
1931-32	165,800
1932-33	147,700
1933-34	129,000**
1934-35	50,000

**In 1933 the ending of the fiscal year was changed from June 30 to August 31. This amount, therefore, relates to a period of fourteen months.

The problem confronting the Institute is immediately and definitely to underwrite this year's deficit; and following that, to adopt and carry through a workable plan for the future.

Future Site and Plant

The most pressing item in any program looking toward the future is provision for a suitable site and plant. In a report to the Board of Trustees during the summer of 1933 some of the serious consequences that have come from the deterioration of the neighborhood in which Armour is located were set forth in detail. Since that time, the following possibilities for meeting the problem of an operating plant have been or are being explored.

1. Temporary move of a major portion of the Institute to a downtown building, leaving the heavy laboratories for the time being at 3300 Federal Street.

An extensive survey of available buildings in or near the loop and of the considerations that would be involved in moving a part of the Institute down town has led to the conclusion that this is probably not the best solution of our problem.

2. Acquisition of an existing building which would house practically all of the Institute's activities.

There are buildings on the near north side which would house comfortably all of the major activities of the Institute, with near-by space available for the balance. One such building and fee can probably be secured for considerably less than a million dollars. If this amount were forthcoming,

acquisition of the property in question would be a satisfactory present solution of our plant problem. The location of the property makes it probable from a real estate standpoint that it could be sold without loss after an occupancy of ten or fifteen years.

3. Purchase of a suitable site and erection of new buildings on it.

A large number of available vacant properties have been inspected, and there is one such property which seems especially suitable for our purposes. In order to give a measure of definiteness to the investigation, provisional plans have been drawn without burdening the budget for a main Institute building on the site in question.

All these approaches involve provision either for an early disposition of our present property or else turning it to some income-bearing use. With this thought in mind steps are being taken to ascertain what profitable use might be made of the property by an eleemosynary foundation or by some public body, but they have not yet proceeded far enough to indicate where they may lead.

It is recommended that the Board of Trustees take official action to insure an early and thorough exploration of the subject of a future site.

Contemplated Self Support

Progress to date with the development of industrial research, the encouraging pick-up in evening school registration, and a net increase of about \$25,000 from a fifty dollar increase in tuition, suggests that the Institute is well on its way to self-sufficiency, in respect to its normal educational program even after these years of depression. Our present plant places a fixed limit on attendance, but the deficit of \$50,000 this year compared with the vastly greater deficits of past years registers distinct progress in the direction of self-support. It is probable with a plant capable of carrying the load that day registration could soon be stepped up to cover 1,000 students without changing the general character of the school or impairing the quality of the student body; nor would such a moderate increase be likely to overstock the market for graduates.

A suitable plant would also permit the development of a well-rounded summer school and the expansion of the evening school to provide for a comprehensive program of adult education. These developments in themselves, without the aid of industrial research, which a favorable location and plant would greatly stimulate, would easily carry their own load and provide the necessary teaching staff to reduce the present emergency overload on the faculty.

Future Opportunities

In approaching these questions of the future, our location in the industrial capital of a great empire is an outstanding asset. With a population of some five million within commuting distance and with the advantages which accrue to students from securing their engineering education in an important industrial, scientific and technical center, the potential community service of a large engineering school like Armour with its entrenched good-will is difficult to measure.

Even with relatively high tuition, the great majority of our students are receiving their education at a cost which they could not begin to match at a school so located that they would be compelled to live away from home. Eighty to ninety percent of Armour students year in and year out come from the immediate metropolitan area. The fact that twenty-five percent of them regularly earn all or a part of their tuition and that many of them earn their entire expenses is an indication of what it means to these young men to have such a school at their doors.

In these circumstances, it is unthinkable that the leaders of Chicago business and philanthropy will take so short-sighted a view of their

own interests as to fail to meet these young men, and those who are to follow them, at least half way. Meeting them half way involves underwriting the present modest deficit and it involves also providing a suitable plant in which to operate.

Covering the deficit can easily be accomplished by contributions from a considerable number of men of moderate resources, like many of those who have already contributed. Provision for a new plant will probably require the tapping of somewhat more concentrated wealth. With the Institute as now organized and directed, any one who builds a monument in the form of an endowed physical plant for it may do so in full confidence that it will not require other large contributions to provide for current operation.

In spite of monetary difficulties the members of the staff are assured that the outstanding ability and resources resident in the Board of Trustees will be amply equal to the task in hand, and that others who have the interests of Chicago at heart will come to their aid, once the significance of the Institute in the life of this community commands their attention.

Providing a plant and establishing instruction on a cost-of-service basis will put the future of the Institute beyond jeopardy, but it will not exhaust opportunities for service by public spirited citizens. An important adjunct of cost-of-service operation should be provision for adequate scholarships and loan funds.

Scholarships

For some years Armour awarded one freshman scholarship to each public high school in Chicago. Since 1933 freshman scholarships have been awarded by competitive examination held at the Institute in May. Competition for these scholarships is now open to students from accredited high schools regardless of location; in 1934 two scholarships were awarded to students outside of Illinois.

Competitive examinations result in securing high grade students and the publicity connected with them is also advantageous. Nearly two hundred students entered the competition this year. The cost of these scholarships is borne by the regular budget. There is great need of endowment for these and additional scholarships available for freshmen.

The Institute has a small endowment for scholarships available for upper classes, but there has been such a shrinkage of income from the funds that only three half-scholarships to seniors could be awarded for 1934-35. It is hoped that this condition may soon be remedied by additional scholarship endowments.

For several years a group of fire insurance companies, acting through the Western Actuarial Bureau, has

awarded scholarships covering tuition and fees for four years in the Department of Fire Protection Engineering. Eight such scholarships were awarded in 1933 and the same number in 1934. The total number now in effect is thirty-three. Beginning this year the value of these scholarships was increased to cover the full cost of instruction. This increase generously recognizes the fact that the regular tuition is far below that cost.

Funds for scholarships in all departments from now on should cover the full cost of instruction. There is no more fruitful way in which generous individuals can support higher education than by meeting the full cost of instruction for students, who, through competitive examination or otherwise, show themselves worthy of such aid. Encouraging persons of means in underwriting a course of study for promising students should become an important item in our financial program.

Student Loans

In many cases it is more desirable to assist students by means of loans than through outright stipends which do not require repayment. As higher education is gradually placed on a cost-of-service basis it will become increasingly essential to provide adequate loan funds for students whose records make them good risks. About the only sound criticism that can be made against the cost-of-service basis for financing education is the fact that worthy but impecunious students cannot unaided bear this cost. From the standpoint of the community and of the motives assumed to dominate private philanthropy it is highly important that opportunity for higher education in privately controlled schools should not become an exclusive privilege of the well-to-do. This danger may be forestalled through scholarships for students of exceptional merit and through adequate loan funds for students of distinct ability and promise to whom scholarships are not available.

At Armour the Faculty Loan Fund, the Alumni Association Loan Fund, and the Henry Strong Educational Foundation have for some time helped materially in making it possible for worthy students to continue in school. In the fall of 1933 the Armour Tech Athletic Association voted unanimously to make a considerable portion of its surplus funds available for student loans. A general Institute Loan Committee, under the able chairmanship of Professor Benjamin B. Freud, has recently been created to supervise the granting of loans and to unify practice and procedure in this important branch of Institute administration.

The history of loan funds, both at Armour and elsewhere, indicates that when loans are judiciously

made and sound business procedure is consistently followed in making collections, losses become negligible. Assuming that periods of relative social stability will recur in the future as they have in the past, a student whose record justifies him in having faith in himself and his future may regard properly budgeted borrowing for an education as a sound investment. Public spirited individuals with available funds may likewise regard investment in an interest-bearing student loan fund as sound.

It may be that the Board of Trustees will wish to consider the organization of a separate corporation as an agency for securing and administering a foundation to provide loans for Armour students. Be that as it may, it is earnestly recommended that they include provision for an adequate loan fund as an important item in their financial planning.

Board of Trustees

The Board of Trustees has been materially strengthened during the past year by the following additions to its membership: Alfred L. Eustice; Edwin O. Griffenhagen; Howard L. Krum; George S. Allison; Homer H. Cooper; George I. Haight; and James O. McKinsey. Messrs. Eustice, Griffenhagen and Krum were designated by the alumni.

The membership of the standing committees is as follows:

Executive Committee

James D. Cunningham, Chairman; Alfred S. Alschuler, Homer H. Cooper, George I. Haight, Chas. W. Hills, Jr., Willard E. Hotchkiss, Sterling Morton.

Instruction and Research Committee

James O. McKinsey, Chairman; Alfred L. Eustice, Robert B. Harper, Ernest A. Henne, Russell Wiles.

Public Relations Committee

Harold W. Munday, Chairman; George S. Allison, Alfred S. Alschuler, James D. Cunningham, Paul H. Davis, Lawrence A. Downs, Alfred L. Eustice, Edwin O. Griffenhagen, George I. Haight, Robert B. Harper, Roy M. Henderson, Charles W. Hills, Jr., Willard E. Hotchkiss, Howard L. Krum, Joseph J. Merrill, John J. Mitchell, William S. Monroe, C. Paul Parker, George W. Rossetter, John J. Schommer, Bernard E. Sunny, George G. Thorp, Charles R. Tuttle.

Recognition

It must be recorded that two distinguished members of the Board of Trustees have been taken by death during the past year. Mr. Lester L. Falk died only a few days after the annual meeting a year ago; and Mr. Leo F. Wormser was killed in an automobile accident during the past summer. Appropriate resolutions of sympathy and of appreciation for the great service these men

have rendered have been passed by the Board of Trustees, presented to the families and associates of these deceased members and made matters of permanent record.

This report should not close without an expression of appreciation for the services which the Board of Trustees, its Chairman, and the members of the Executive, Development and Public Relations Committees have rendered in keeping the ship afloat in heavy seas. Appreciation is also due to the Alumni Association under the presidency of John J. Schommer for the manner in which many difficult problems have been met and advanced toward solution.

Faculty's Patience Recognized

Recognition is due and overdue to the members of the faculty who under the most disquieting conditions have preserved a scholarly poise and have assumed cheerfully the added burdens which it became necessary for them to carry. The faculty has collaborated in every possible way with the administration and the Board of Trustees in helping to direct the course of the Institute so that the present difficulties may work no loss of vitality nor impairment of educational results.

Another source of encouragement, tempered with inevitable regret, is the way in which some of the members of the faculty who have had to be placed on a part-time schedule and even some of those whose appointments could not be renewed have recognized the exigencies of the situation and expressed their loyalty. Such evidence of devotion makes it all the more a matter of keen regret that during past years no provision was made for continuing stipends to members of the faculty who are retired. It is hoped that at an early date our plans will have so far progressed that this crying need may be met.

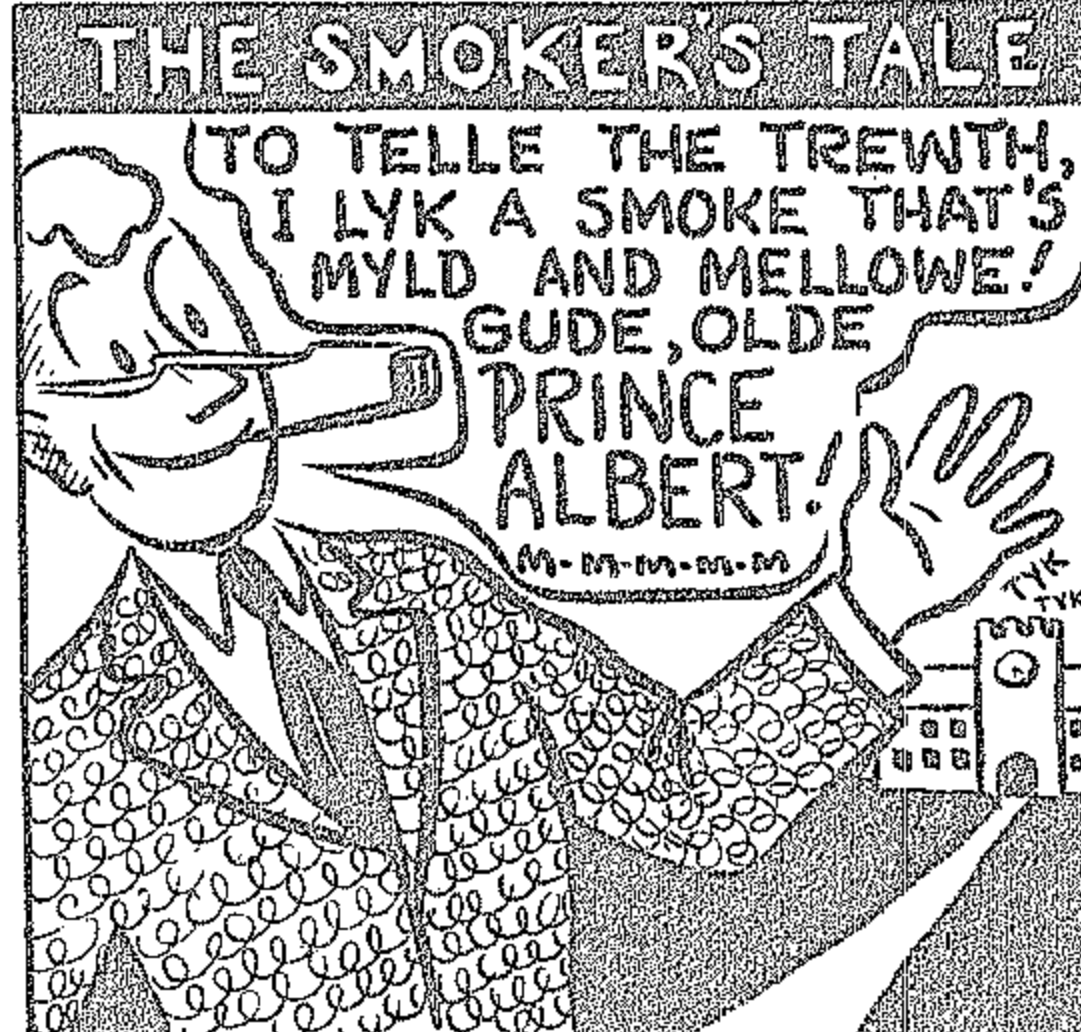
Praises Allison's Work

Among those whose services should be particularly recognized in this report is our Treasurer. With unflinching fidelity and zeal he has conserved our scanty resources. He has also shown consummate skill during this period of deep depression in granting students necessary indulgence in their payments. He has followed deferred payments with such friendly persistence in collections that losses have been negligible. With concessions made to more than twenty percent of students last year and with over-due bills amounting to nearly \$14,000 at one time, the amount still uncollected is less than \$500 and most of this will be paid. Concessions in payment this year are being made to over twenty-five percent of the students without any serious danger of important losses.

On the strength of this record and of his long service and devotion to the Institute, on recommendation of the President and the Executive (Continued on page 5)



Copyright, 1934, R. J. Reynolds Tobacco Company



AFTER EVERY CLASS IT RINGS THE BELL!

THERE are two reasons why Prince Albert is called "The National Joy Smoke" by pipe smokers. The first--it is a secret blend of choice, top-quality tobaccos. The second--this excellent blend is treated by a special process which absolutely removes all "bite." Get a big red tin of "P.A." yourself and find out how good your pipe can really taste.

PRINCE ALBERT

—THE NATIONAL JOY SMOKE!



Through the Alimentary Canal with Gun and Camera, or Just Plain Nuts

By Richard Weissman

Dear reader, when you read the first paragraph or two of this astounding revelation, you may think the author mad, but when you have completed this fantastic tale, you will know it.

It all began on a cold night in Siberia. Everything was covered with snow. I began nodding my head because I had nodding else to do. Just as I was about to fall asleep, I was aroused by a loud, raucous laugh. I raised my head, and what do you think I saw. You guessed wrong. I saw nothing. Nothing to the left of them, nothing to the right of them, rumbled and thundered. On through the alley of death, rode the three hundred. Or were there only three hundred? But that is beside the point. Speaking of points, how many points make one cavort? As I was saying before I was so crudely interrupted, I saw nothing. Do you know why? Because the lights were out. I turned them on, and hello and behold, there was the devil, his sultry majesty himself. I looked around, and there were the eternal fires blazing away. "See here," I said, "What's the big idea of waking me up? Don't look at me in that tone of voice! Shut up! Say something for yourself! Stand up! Sit down! Jump through this hoop!" "Sa-a-ay," he said, "you act like you own this place." "Sure," I said, "Mr. Fulghum gave it to me when I was on earth, for writing a theme." "Ha ha ha ho ho" laughed Nick. Then I laughed. "What are you laughing for?" he said. "That joke is so old that it is not even rotten, it is petrified. Do you know that you are going to be put on trial for the murder of a joke? And the penalty is DEATH. Death by roasting, if you are found guilty."

Went a Word

He clapped his hands three times, and said a magic word. I think it was *Highconsuperfistilocatedphonocinematograph*, or something, most likely something, and two imps appeared. They led me through dark passageways, over narrow bridges, past roaring furnaces, and between towering rocks, to a huge cavern, with many niches and ledges in the walls. Upon these were such decorations as skulls, weird drawings, smoking embers, grotesque statuettes, and many other bizarre odds and ends. A bluish light, the source of which was not visible, seemed to emanate from certain portions of the cavern, and this dim light was the only illumination, casting odd shadows, and giving the place a strange and ghostly atmosphere. The regular dripping of water was the only sound to be heard. At one end of the cave were nine judges, whose entire bodies were covered by black robes, with the exception of their faces, which seemed to be nothing but grinning skulls. Shadows flitted about, and occasionally a bat would brush past my face.

The silence was finally broken by

President Hotchkiss Makes Annual Report

(Continued from page 4)

Committee, the Board of Trustees has constituted the Treasurer as the Endowment Officer of the Institute. In this capacity it will be possible for him to aid greatly the Executive and the Public Relations Committees in securing ways and means by which the Institute may forge ahead.

In order that the Treasurer may be able to discharge his new responsibilities the Trustees have created the office of Comptroller to be filled by a properly qualified person directly responsible to the President. It is not contemplated that this change will cause any net burden on the budget.

On recommendation of the President and the Executive Committee, and in view of their long and valuable service to Armour Institute of Technology, the Board of Trustees has voted that Thomas E. Doubt, George F. Gebhardt, Charles W. Leigh, and Guy M. Wilcox be awarded the rank of Professor Emeritus and be carried on the rolls of the Institute with that rank.

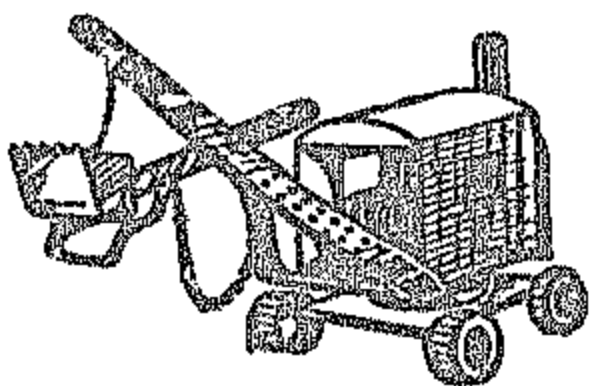
Respectfully submitted,
Willard E. Hotchkiss,
President.

the voice of the tallest of the judges. "Of what crime is this mortal accused?" he croaked. "Murder", shrieked one of the imps, and a murmur broke forth from the audience. "The trial will now commence," said the judge, "remember, anything you say will be held against you". Quick as a flash I replied, "Mae West", and again the audience murmured. One of the judges said "Pfooeey", and held his nose. "Now," said the chief justice (or judge, justice you prefer) "what have you to say in your defense?" I replied, "Only this: Who takes care of the care-taker's daughter while the care-taker's busy taking care?" Whereupon the judge said, "Shut up or I'll crack your skull." Silence followed.

It's All Wet

After the evidence had all been heard, the judges put their heads together, and went into a huddle. After a few moments one turned and said, "We have reached a verdict." A death-like hush fell over the audience. Not a sound could be heard except for the steady, monotonous, drip, drip, drip, of the water. I looked up, and there were the weird judges, each with a stern stare on his face. The suspense was terrible. It seemed hours till the spokesman finally rose and pointed his finger at me and spoke. "The verdict is," and he paused, as the rest of them scowled, "not guilty." And a sigh of extreme disappointment came from the audience. The judge spoke

THE STEAM SHOVEL



Has anybody here seen ADOLPH Christoph around?

The Steam Shovel hopes that the little pooch which the sophomores decorated with a green ribbon likes that ribbon—because, while they can take a frosh's pants off for not wear-

again, "You have escaped hanging. For you there will be no noose." "No noose is good news," I said. Immediately the judges growled and gnashed their teeth, while the audience howled with rage. "For that last crack," spoke the judge, "you shall be executed. Your only consolation is that we must allow you one hour of grace." "All right then," I said, "bring her in."

It's About Time

The shock of realization came to me only when I saw my head in a guillotine. The knife above my head was swiftly falling. It was terrible. Would no one save me? My head rolled into the basket with an air of finality. That explains why there is no sense to this atrocity.

The moral to this thing is: "Let that be a lesson to you".

Editor's Note: This trash was found in the gutter. It should have remained there.

ing a cap, what will they do when the hound doesn't wear the ribbon.

The senior electrical collection of Berwangers, still undaunted and undismayed by their defeat at the hands of Purdue—or, the Fire Protects, challenge anybody in general to a game of football...and the Fire Protects in particular to a game of "King of the Hill".

People who think Floyd Gibbons can talk should hear Nathan Diesenhau, alias "Little Edison"—whose period of silence is plus or minus 3.86 minutes—mostly minus!

And incidentally—the best laid plans of mice and men go astray sometimes—even departing parties by Junior E.E.'s!

If anybody wants to know how to fly a glider, just ask ROGER SMITH, '38. And for evidence of ROGER'S general ability you can go down somewhere on U. S. Highway No. 64, and examine the remains of his glider and pants!!!

And BEETLE informs us that MARTY LOFTUS has started a brand new system of wasting time in class. Marty's now working on a new "tonsil oil" to enable him to talk more with less effort.

The junior mechanicals believe in the old apple adage; they presented Brother Winston with a baked apple to keep the quizzes away.

AULER AND GARTZ became so engrossed mentally in native brawls, that NACHMAN must remind them that they are in a THERMO class.

Fischer Gives Team Pointers on Fencing

The fencers and near-fencers are obtaining pointers and elementary instructions in fencing from Prof. Hans Fischer, newly acquired faculty member. Practice is held every Friday at 10:30 in the gym and arrangements are being made with Dean Heald for another hour of practice.

The ambitious carvers are taking these instructions more or less to heart. For instances, Krok broke his foil in one of the practice engagements and jabbed his opponent in the stomach with the broken end. The contestants are repeatedly interrupted in their intentions by Fischer, when bad form, footing or method of offense and defense are observed.

Professor Fischer claims that fencing is not a strenuous exercise, and points out the 73-year-old French fencing champion as an example. It requires, he claims, dexterity rather than strength or brawn.

To Present "Aladdin" at Goodman Theatre

Next Saturday at 2:30, the Goodman Theater will open its season with a plan entitled "Aladdin." It was written especially for this production by James Norris, a New York actor, and will be interesting not only to children but to adults.

This play will run for five Saturday matinees, and will be followed in succession by a comedy of Robin Hood, the Sleeping Beauty, Huckleberry Finn, and a comedy of Red Riding Hood.

Runners to Face Strong Schedule

Now that winter is just around the corner, the Techman are turning their attention to indoor track. Plans are being formulated for the organization of the team, foremost among these being the meeting scheduled for the week before Thanksgiving. Those whose names will be most prominent are Lonnie Stagg, the coach, Johnny Roberts, captain, and Charles Handler and Chedo Grakavac, the co-managers. The prime importance of this get-together is to size up the candidates, both freshmen and upper classmen, in view of obtaining a general idea of the strength of the future team.

A strong schedule is being planned which will include all the opponents of last year plus a new addition, Carrol college. The season is too early to make any rash predictions, but due to a strong backbone of former varsity men, the best is to be expected.

SIDELINES

(Continued from page 1)

ideals of city management would coincide with the higher ideals of the management and the larger exhibitors of the original exposition. In referring to local developments, we have heard the backers of Mayor Kelly label him as "an engineer too." That may be so, but we know of very few people who would grant him custody of a monkey-wrench, not to mention a World's Fair.

NEED MORE ENERGY? ... GET A LIFT WITH A CAMEL!

LEAF-TOBACCO EXPERTS AGREE:
"Camels are made from finer, more expensive tobaccos—Turkish and Domestic—than any other popular brand."

DAVID H. JARVIS, '36—STUDENT OF MECHANICAL ENGINEERING. "Poring over charts and figures for that Mechanical Engineering degree makes a fellow pretty tired at times—but smoking Camels helps a lot," reports David Jarvis. "When I feel my alertness and energy slipping away, I light a Camel. In no time I lose that 'all in' feeling. I like the taste of Camels better, too. It is a fact that Camels are different—richer, milder. And I can smoke them one after another without ever bothering my nerves."

POPULAR NEW YORK DÉBUTANTE: "Smoking a Camel is the quickest way to relieve fatigue that I know," says Miss Mini Richardson. "It always refreshes me. And I love the taste of Camels. They seem to be milder and smoother!"

You are invited to tune in on

THE NEW CAMEL CARAVAN

featuring WALTER O'KEEFE • ANNETTE HANSHAW
GLEN GRAY'S CASA LOMA ORCHESTRA
TED HUSING

TUESDAY	10:00 P.M. E.S.T. 9:00 P.M. C.S.T. 8:00 P.M. M.S.T. 7:00 P.M. P.S.T.	THURSDAY	9:00 P.M. E.S.T. 8:00 P.M. C.S.T. 9:30 P.M. M.S.T. 8:30 P.M. P.S.T.
---------	---	----------	--

OVER COAST-TO-COAST WABC-COLUMBIA NETWORK

WALTER O'KEEFE

CAMEL'S COSTLIER TOBACCOS NEVER GET ON YOUR NERVES!

TECH CAGERS GET NEW HOME COURT FOR COMING YEAR

Regulars' Disability Clouds Early Hopes

KRAFFT CUTS SQUAD

Armour basketballers have cause to rise up and rejoice for Professor Schommer has finally gotten the Armory on Wentworth avenue as a locus for the team's practices and meets. Long the struggle has been, and hard, due to some previous contract that the Armory has had. And because the floor is so near the players will be able to get in a good deal more of practice, besides giving the student body a chance to wear the ink off their free (?) passes.

Captain Lauchiskis Out

Coach Krafft is bubbling over with joy because of the above-mentioned situation; however, he is not quite so happy over the present team. There are several reasons for this. One is that Captain Lauchiskis has something ailing his knee so much as to keep him off the floor, and Dollenmaier, one of last year's letter men, is out for a while due to faulty tonsils. And then, says the coach, the team as a whole is composed of men of smaller stature than usual for college teams. He is not, however, pessimistic, as there are four or five of last year's letter men back and there are also several promising freshmen who starred in the recent class tournament. The schedule for the coming season has now been completed and nothing remains but to put the team in shape.

Assistant Managers Needed

An appeal is hereby sent out for several juniors who would not only like to be assistant managers of the team but would really put their heart and soul into it and do a good job. The coach and Johnnie Humiston are both eager for some good men to get in shape as a possible manager for the 1935-36 season. This is a chance for you men who want to get into something with a future.

Cut Comes Early

Last Thursday the scissors were taken up and the team cut to about thirty of the best men who turned out. 'Tis always a sad day for those who are turned down; but it also marks the start of earnest training for the coming season.

Wrestlers Stage Practice Match

Next week the wrestling team will stage a practice meet with the Lincoln-Belmont Y. M. C. A. The unique feature about the event is the fact that every man on the squad who has been working out for the past month will be given a bout, providing suitable competition can be offered. Coach Weissman is expecting about 20 or 25 matches. Among the regulars expected to take part are Hella, Marslek, Patterson, Schmidt, Sumner, Bergquist, and Peterson.

The Lincoln-Belmont outfit has given Armour the stiffest competition of any team in the Chicago area in the past four years.

The place and date of the meet is undecided at present but will be posted on the bulletin board in the near future.

Boxing Practice Starts

Last Wednesday night was the first time the boxing squad actually put on gloves. From the action shown in the gym, the team will carry on as it has done for years, in the opinion of the coach.

A number of the new men showed to good advantage although they had had but a limited amount of training. Several of the aspirants who had never put on gloves before in their lives acted like veterans, while the old-timers like Hella, Bothwell, Norris, and Moore retired respectfully to the background.



The touchball spirit has so completely entered the Techawk's life that even the honoraries are considering the formation of those representative groups passing for teams.

No kidding, it would really be funny to see some of these super-grindstones turned lose on our grid-iron (?). Possibly these super men can sling the P. S. (pig skin) with some of the ability that they toss the B. in working for their S. S. (Sheepskin).

It has finally come to this: the Jr. F. P. E. and the Sr. F. P. E., a couple of prominent has-beens, will meet Wednesday to settle a bit of a verbal tilt with regard to the Actuarial Office-Boy's title. The Soph. F. P. E.'s (if such be) had best take advantage of a chance at a snap game.

The frat men continue to demonstrate an interest in the pastime and threaten to include a touchball tourney in their program next year. Last Wednesday, the Delts held the Phi Kaps to a 0-0 deadlock. Beta Psi vs. Phi Kappa Sigma is in the spotlight this week.

Continuing with the interfraternity program, the basketball pairings have finally been made. Bucky O'Connor, manager of interfrat sports, induced those concerned that last Friday, being a pleasing day, might see the drawings, and thus we prepare for some more cheese box skirmishes.

The practice dates and pairings are posted on the bulletin board. The Phi Pi's, standing champions for sixteen years straight, stand a fair chance to win their second leg on cup number six.

The swimming team must have a diver. Any Armourite having any

ability at all is invited to show his spring board technic. See John Ahern, captain of the swimming team, for additional information.

THIS WEEK'S GAMES Friday, November 16

- 1:10—Sr. M.E. vs. Jr. M.E.
- 3:10—Jr. E.E. vs. Hawkeyes.

The senior mechanicals, pre-tournament favorites, took a 14 to 0 trouncing from the senior E.E. team in a practice tilt. The electricals, playing true to form again after being upset by the F.P.'s during the early stages of the tournament, ably took the measure of the up-and-coming M.E.'s. This defeat, however, was followed by a Mechanical victory over the soph schmiere by a two point margin.

Capt. Al Lauchiskis has fared the worse for football. He sought to save his ankles and ruined a good knee. Nope, the cane is not a fake. Gene Heike and "Adolph" Christoph are handling themselves more gracefully as they sneak in some B. E. practice. What chance has an ordinary man got when "Adolph" the "human spring" gets loose anywhere below twelve feet.

The wonder of the age is John Schommer's successful bargaining with the powers that be to get the Armory on Wentworth for our home court! More practice and more spectators are in the offing and this means won games for Bill Krafft.

It seems that somebody's indoor tennis business stood between John and success for many moons. 'Tis said that the tennis business will be resumed at odd times and this kind of gives the Tech net men a scene for spring training. Good by bad court excuses!

The Tech wrestlers are again opening the sport season, this year with a practice meet at Lincoln-Belmont "Y." Coach Sonny Weissman hopes to match everybody he brings along, which means plenty of bouts and experience for green men.

Senior Mechanicals Victors In Ball Game

Touchball competition reached its peak at the Institute during the week past. The Senior Mechs, proclaimed by observing critics as the potential winners, all but lost their eye teeth in the fastest and most furious of the games yet played. Close? Look at the 8 to 6 score. It was an inter-departmental battle with the sophomore Schmiere on the long end of the score up till the end of the first half. Then the seniors came from behind, with an exhibition of superb playing, to win as indicated above.

Showing an utter disregard for the supposed awe in which the upperclassmen are thought to be held, the sophomores needed but three minutes of play to make their first lone touchdown, while the seniors slumbered peacefully on. A fine pass by Hackman to Skuza made the score. The balance of the sophomore team was made up of Bodenmann, Heike, Forberg, and Kreml.

Staggering from the furious start the sophs had made, the seniors rallied in the second half. After a fight, they finally completed a forward pass, Phillips to Christoph, to tie the score. Phillips and Christoph have constantly been the stellar performers for the seniors. Phillips' pass for this touchdown was three-fourths the length of the field. Birdsong, Mayerowicz, La Pedus, May, and Jones completed the M.E. roster.

The game was one worth seeing. The seniors had a great advantage in that the running in of LaPedus and Jones hurried the soph passer. In fact a safety by Jones on Hackman won the game for the seniors. Some great blocking was done by Bodenmann for the sophs as time and again he spilled Jones or his ear.

The hard play can be judged from the fact that the seniors have asked the sponsors of the tournament for a bye, on the grounds that they have played more games than the remaining teams. The seniors must recover from the daze the sophs left them in. They are sissies.

Fall Tourney Men Fight to Beat Snow

The tennis tournament, like all other earthly things, evidently has an end, and that end is but a week away. The inclemency of the weather has added not a little to the natural lengthiness of a well-represented elimination tourney, but slowly and relentlessly the grinding wheels of competition have taken their toll. The start of last week revealed but four survivors of the original field of 38 starters left. The semi-finalists were Wheaton, who won from Freund by default; Bodnar, who won from Marow on a forfeit; Boehme, who won from Drell, 10-8, 6-3; and Arnold, who had drawn a bye. Thursday morning Bodnar won his right to the finals by defeating Wheaton in a hard-fought battle by a score of 0-6, 6-3, 6-3. The other game, between Arnold and Boehme, which will decide the other finalist, has not as yet been played.

Finals This Week

Thus this week will herald in the winner of the 1934 fall tennis tournament. Even though the tournament has proceeded at a snail's pace, and though probably many of the participants really had but little chance to display their net ability, the tourney has nevertheless provided the tennis team and its coach, Prof. Colvert, an excellent opportunity for sizing up possible team members. The losers can have another crack at the team roosts next spring when the more favorably garnished spring tournament gets under way.

The golf tournament has been experiencing the same difficulties as have beset the tennis tournament, and probably to a greater degree. The main hindrance has been the spasmodic spells of harsh weathers which have impeded the rapid negotiation of the tourney, and which have aroused serious doubts that the tourney could be completed before the cold weather sets in.

The semi-finals were successfully reached by Davidson, Schreiber, Engstrom, and Sobel. Schreiber entered the finals by defeating Sobel,

SWIMMING TEAM WITHOUT A DIVER HOPES FOR BEST

Material for this year's edition of the swimming team is engaged in training preparatory to the approaching time trials. The turnout this year, well over forty men, is the largest in recent years, but there still remains a problem to be met with; that is the lack of diving material.

The one strong hope is Bob Lyford, a senior chemical. In high school Bob was a capable diver and those aware of his ability consider his services most vital.

Capable Freestylers Appear

In the other events, namely, the free style event, Ralph McDonald is making a strong bid for recognition. Duerstein, a junior, is another likely candidate who will probably see service as a free styler.

The regulars returning are: Captain John Ahern who specializes in the 40 and 100 yard free style events; Stan Bernstein, the back stroke man, who is beginning his fourth year on the Tech team, and Dinny Moore, a free style swimmer. Then there are Tallafuss and Knaus, free style and breast stroke swimmers respectively.

The swimming schedule is in the process of being formed. It is planned that the Tech competitors for the coming season will be matched so that the Armour team will not be outclassed by some powerful Big Ten team one meet and the following week engage a "pushover." Instead teams of the same calibre are sought. The first meet of the year is tentatively planned for the middle part of January.

who had previously won by default, by the score of 4-3. The finals, weather permitting, ought to be finished by next week.

COMPLETE PLATE LUNCH, 30c Changed Daily

ALICE RESTAURANT
3117 Wentworth Ave.
Phone Victory 9806

Fair enough

WE tell you that Chesterfield Cigarettes are made of mild, ripe tobaccos. We've told you about the paper—that it's pure and burns right, without taste or odor.

We have said that Chesterfields are made right. The tobaccos are aged, then blended and cross-blended, and

cut into shreds the right width and length to smoke right.

These things are done to make what people want—a cigarette that's milder, a cigarette that tastes better—a cigarette that satisfies.

You can prove what we tell you about Chesterfield. May we ask you to try them—that would seem to be fair enough.



Strictly on their merits
the cigarette that's **MILDER**
the cigarette that **TASTES BETTER**