



## JACK CAVANAGH CHIEF EXECUTIVE OF JUNIOR CLASS

### J. J. Casey Elected Social Chairman; McGill, Treasurer

The Junior class elected, at the anagh, Ch. E., as its president, Wednesday, October 15, Jack Cavanagh, Ch. E., as its president, Wilbur H. Rudolf, C. E., as vice-president, Frank Ustrycki, M. E., secretary, Thomas McGill, E. E., treasurer, and J. J. Casey, C. E., social chairman.

One hundred forty-seven votes were cast during the voting period from 10:00 a. m. to 3:00 p. m. The results were as follows:

President	
J. Cavanagh	82
J. Jackson	64
Vice-President	
Wilbur Rudolf	84
M. Venema	62
Secretary	
Frank Ustrycki	83
H. Hendricks	64
Treasurer	
Thomas McGill	88
W. Trauten	57
Social Chairman	
J. J. Casey	92
H. Cameron	54

### A.C.S. to Meet Friday, Carpenter to Speak

The regular monthly meeting of the American Chemical Society will be held at the City Club next Friday, October 24th at 7:30 P. M. The meeting will follow the dinner which is at 6:15 P. M. The open forum will be addressed by Waldemar Kaempfert, the director of the Museum of Science and Industry in Chicago. He will give a talk on "Tracing the Technical Ascent of Man" illustrating his subject through the aid of moving pictures.

At 8:45 P. M. the Physico-Chemical group will be addressed by Professor A. H. Carpenter of our faculty on the subject of "Lead Coating of Pipes and Corrosion." Professor Carpenter will base his remarks on the results of his experiments on lead-coated pipes. He has conducted a great deal of research along this line in his capacity of consulting chemist. The address will be illustrated with lantern slides.

### Leigh's Niece Killed In Automobile Crash

Mrs. Mary Doyle, niece of Professor Charles W. Leigh, was killed in an automobile accident near Henry, Ill., last Wednesday evening. Mrs. Doyle and her husband were driving along a country road near the town of Henry at about 3:30 in the evening, when their car left the road and overturned. Although Mr. Doyle suffered only minor injuries, Mrs. Doyle, Professor Leigh's niece, was killed instantly.

Professor Leigh left Chicago Friday afternoon to attend the funeral services, held on Saturday. The interment was at the cemetery at La Prairie Center, near Professor Leigh's old home.

### McGraw Hill Company Offers Student Rate

The McGraw Hill Publishing Company of New York and Chicago had a representative at the Institute last week in an effort to launch a magazine campaign. Special rates were offered to the men, a feature of the company's service to the technical student. Inasmuch as the men are allowed forty-five days to pay, James Clear, '32, the assistant in the library has been appointed to collect the subscriptions.

### Miss Steele Attends Library Convention

Miss Ellen Steele, librarian, returned Saturday from a three-day meeting of the Illinois State Library Association at Moline, Illinois. Representatives of all the public and school libraries in the state were in attendance.

The meeting is held annually for the purpose of discussing possible improvements in library methods used throughout the state.

### Cheatham Chosen Frosh President

The violent campaigning which began in the hectic freshman nominating assembly over two weeks ago terminated last Wednesday, October 15, in the class election, with the following results:

President	
R. Cheatham	89
D. Jacobson	30
S. Lang	29
Vice President	
D. Manson	80
G. Sergeant	65
M. Kuersten	27
Secretary	
L. Lowry	81
N. Nargie	35
Treasurer	
R. Drum	90
D. Mullane	54
Social Chairman	
L. Callen	62
T. Cherwin	48
B. Peterson	37
Sergeant-at-Arms	
J. Schamp	68
R. Sullivan	76

### Hendricks Host to News Staff

The staff of the Armour Tech News held a smoker at the home of its faculty adviser, Professor Hendricks, last Friday evening at eight o'clock. Members of both the editorial and business staffs were present. Several of the new men on the staff were experiencing their first Tech News smoker.

The program started by playing bridge until all the members of the staff arrived. Candy and peanuts were consumed while the men were toying with the caprices of lady fortune. As soon as the group was assembled a short business meeting was held. Professor Hendricks gave a brief sketch of the history of the official paper at Armour, emphasizing its importance to students, faculty, and administration alike. He also spoke of the brilliant future that awaited not only the Tech News but the Institute as well. He complimented the members of the staff for their good work in making good what was not more than a desire in the past, a school paper at Armour. He told the men that they were pioneering in establishing a tradition at Armour.

The second part of the program was a short skit given by E. W. Carlton, assisted by W. H. Rudolf. The sketch was written by the former. The principal part of the action took place in the dark, creating an air of mystery which was not cleared up until the actors relented and turned on the lights. After this the men of the staff were introduced to each other. Next the trek back to the card tables was started. Here in the pleasant atmosphere of Professor Hendricks' home the members of the staff belated forth smoke and consumed food.

Stresses and Strains, Tech's exponents of popular music is being reorganized under the leadership of Frank O'Connor and Ted Jankowski.

### TRACK ELEVATION WORK INSPECTED BY A. I. T. CIVILS

One of the outstanding inspection trips of the year was held on Thursday, October 16, when the junior and senior civils, in conjunction with the Western Society of Engineers went through the grade separation project at 16th Street and Canal.

The inspection trip was conducted by the Chicago, Burlington and Quincy Railroad, who are in charge of the work, although four lines are involved. Mr. W. R. Prass was in charge of the inspection, assisted by several other guides. Professors Heald, Stevens, and Grafton were the faculty representatives.

The trip was capped by a dinner on a special train of diners provided through the courtesy of W. J. Newman and Co., the general contractors for the construction work. It consisted of a light supper, cigars and cigarettes.

The project is the elevation of the Baltimore and Ohio, the Chicago and Northwestern, and the St. Charles Airline over the Pennsylvania and the Burlington tracks. It involves nearly a mile of double track viaduct, the reconstruction of the Canal Street viaduct without the interruption of the street car service, and the raising of the St. Charles Airline bascule eleven feet.

The men were first taken to the C. B. and Q. freight yards, and shown the flat slab construction of the Canal street viaduct, and then to the larger project. The complicated structures at 16th and Canal were then visited and the work explained in detail by the guides. The work here embraced both through and deck plate steel girders, concrete slab and column structures, and precast cribbing. Details of construction were explained by Mr. Prass, and the professors.

### Basketball Squad Starts Work Nov. 1

The first basketball practice will start about November 1st. The team will practice in the Armour gym for about two weeks, and will move into the 8th Regiment Army gym on or about November 15th.

The practice will begin with three nights a week, and will be extended to five nights a week when the change in gyms is made.

Only about four games have been scheduled for the coming season. The tentative schedule will probably be published in next week's issue.

All applications for the position of assistant manager must be filed with Coach Krafft by November 10th.

### Campus Club to Hold Smoker Next Thursday

On Thursday evening, Oct. 23, the Campus Club will hold its first smoker of this semester, in the Chapin Hall club rooms. Professor Mangold, the sponsor of the club, and many alumni members are to be present. Plenty of "eats and smokes" will be available, plus the usual round of bridge, pinocle and entertainment provided by members.

The membership of the club is increasing, there being at the present time thirty members.

### Rifle Club Outlines Program for Season

With hopes for a successful season running high the A. I. T. Rifle Club held its second meeting of the year last Friday at 12:30. The meeting was held to further the plans for the future made at their first gathering.

### Registrars Attend National Convention

Mr. Kelly, registrar of the Institute, has returned from Decatur, Illinois where he attended the convention of Registrars of Illinois colleges and universities. Mr. Kelly left Thursday, Oct. 16 and spent the following day at Millikon University, host to the convention. A discussion of the past years was held and plans for future systems were submitted in the papers presented. Every college and university in this state was represented.

### Larson to Head Sophomore Class

The Sophomore Election was conducted as scheduled last Wednesday with the following results.

Vice Pres.—W. Larson  
Treasurer.—J. Sorensen  
Social Chairman.—G. Staib

For President:—

R. Belford ..... 51  
E. Sademan ..... 72  
W. Davies ..... 26

Vice President:—

E. Curran ..... 51  
W. Larson ..... 97

Treasurer:—

G. Schultz ..... 31  
J. Sorensen ..... 117

Social Chairman:—

G. Staib ..... 95  
V. Novak ..... 54

Due to the lack of votes for any one candidate for the office of the president, the class will hold a second election. According to G. Staib, chairman of the social committee, the election will probably be conducted Friday, October 24th between the hours of 10 and 3 in Science Hall.

A goodly portion of the class turned out for the election of officers and it is anticipated that the class as a whole will be on hand to elect their leader.

### Railroad Authority At W. S. E. Meeting

C. A. Morris, former chief engineer of the C. R. I. & P. Ry., will speak at the Armour branch of the W. S. E. meeting this week. Notice of time and place of meeting will be posted on the bulletin board. All freshman and sophomore civil students are invited to attend, and may be excused from classes.

The discussion, the first of a series dealing with the engineers' work in the various means of transportation, will be given by a man well versed in the subject. Mr. C. A. Morris is a nation-wide authority on railroad engineering, having had considerable experience in Mexico as well as in the United States.

### CALENDAR

Tuesday, October 21	
4:15	Tau Beta Pi meeting in Tau Beta Pi Rooms.
5:00	Orchestra rehearsal in Assembly Hall.
Wednesday, October 22	
2:00	Flask and Beaker meeting in Pi Lambda Upsilon rooms.
Thursday, October 23	
5:00	Glee Club rehearsal in Assembly Hall.
5:00	Seniors vs. Juniors—Basketball—Gymnasium, Main Building.
Friday, October 24	
5:00	Sophomores vs. Freshmen—Basketball, Gymnasium, Main Building.
Saturday, October 25	
2:00	Chicago - Mississippi Game.

### Dean at Purdue Explains Course

Dean John C. Penn has sent an extract from the Purdue University Engineering Extension department which is printed herewith. The article is by A. A. Potter, Dean of Engineering of Purdue, and is titled "Personnel Methods for Engineering Colleges."

"Upright character, correct living, service to society, agreeable personality, and good citizenship are important objectives in the training of the American engineer. Engineering is influencing very generally the lives of all civilized nations and the engineering colleges have a great responsibility to develop engineers who will have a broad outlook and an appreciation of human values. Engineering colleges must adapt their curricula to the changing needs of the profession but should also strive to bring about conditions so that their graduates have the character traits to do right, the ability to think straight, health to work hard, personality to make them acceptable to their fellowmen and the breadth of vision to utilize for the common good, the new forces which science and engineering are constantly creating."

### Press Club Elects Officers; Plans Year

A reorganization meeting of Press Club took place Tuesday morning of last week. The membership of this club is not limited to upper classmen, being open to members of the staffs of all of the schools' publications and men interested in journalistic work. At the first meeting, officers of the club were elected. Arthur H. Jens, managing editor of the Tech News and editor-in-chief of the Cycle was elected president. Fred Attwood, editor-in-chief of the Tech News, was elected vice-president and Richard G. Kellner, was elected secretary-treasurer.

It was suggested that leading journalists of the city be invited to give talks to the club on the subject to journalism. No other plans were made, but all staff members of school publications are invited to the next meeting, which will be announced soon. Freshmen who would like to become active in any of the three publications are urged to attend.

### Grafton Joins Club as Faculty Adviser

The Truss Club has secured as an honorary member and faculty adviser, Professor Eldon Carlyle Grafton, assistant professor of structural engineering. His association with the chapter was begun at a dinner given by the club.

The following pledges were also welcomed:

Q. McGuan, M.E., '34.  
F. Koko, C.E., '34  
E. Fieldman, E.E., '34.  
J. Hoffman, M.E., '33.  
C. Lane, E.E., '32.  
T. Ladzinski, C.E., '32.  
A. Tibbitts, M.E., '32.

### Link Presents Paper At A.S.M.E. Convention

Charles Link returned from a trip to French Lick, Indiana, last Wednesday where he represented the Armour Branch of the American Society of Mechanical Engineers at a two day convention of the society. During the summer months Link had been assembling material on Power Plant Engineering and had prepared a paper which he presented at the convention. Those present said his paper was the best prepared but failed to be awarded the prize because of presentation.

### CHARLES LINK, M. E. CHOSEN PRESIDENT OF SENIOR CLASS

#### Schirmer, Drigot, Jordan, Miran, Abramson Other Officers

At the general election held on Wednesday, October 15, in Science Hall, Charles Link was elected president of the senior class. Since W. Winkler's petition came in too late, Phil Jordan was elected secretary, uncontested. R. J. Abramson was elected sergeant-at-arms, there being no opponent provided.

The following list gives detailed results:

President	
C. Link	83
F. Attwood	61
Vice-President	
W. Drigot	74
B. McLaughlin	70
Secretary	
P. Jordan	Uncontested
Treasurer	
W. Miran	80
M. Lamka	60
Social Chairman	
W. Schirmer	74
R. Kellner	66
Sergeant-at-Arms	
R. Abramson	Uncontested

### Social Committee Chosen by Casey

James J. Casey, C.E., elected junior social chairman in the election last Wednesday, has appointed his social committee. These men will assist him in the work of running the junior informal and the junior formal in the spring. The assistants are:

R. J. Waindle  
A. J. Jungels  
G. W. Schodde  
J. E. Bryant

According to present plans the junior informal will be held early in December as has been the case in previous years. At present all plans are unsettled since the committee was formed so recently but, according to Casey, a definite date will be named for the dance as soon as possible.

### Wallschlaeger, '34, New Glee Club Pianist

N. E. Wallschlaeger, '34, was selected to be the accompanist for the Glee Club this semester by Dr. Protheroe last Thursday. Wallschlaeger took over his duties immediately and did remarkably well. The new pianist can also play the organ.

The Glee Club has acquired two new songs, the names of which are "Charlie is My Darling" and "Passing By." The first is a Scotch melody in which "Charlie" is Charles Edward Stuart, a great favorite of the Scotch people.

### Tau Beta Pi Fraternity To Hold Meeting Today

A meeting of the Tau Beta Pi honorary engineering fraternity will be held today at 4:15 in the Tau Beta Pi rooms. A report will be given on the National Convention, which was held in Bethlehem last week, and several amendments to the local chapter's constitution will be proposed.

Flask and Beaker, professional chemical engineering fraternity, will hold a meeting in their Chapin Hall rooms on Wednesday, October 22 at 2:10. Plans for this year's activities will be made at this time.



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K. Myers, '31

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## ANONYMOUS LETTERS

Anonymous letters are frequently found in the contribution boxes of the various school publications. Usually these communications express a supposed grievance and tell their tales in a hasty and thoroughly unsatisfactory manner. It is against the policy of the school publications to print anonymous letters, hence the letters do not receive the consideration which the writers think they deserve.

It is suggested by the Office of the Deans' that if you have a real grievance and want to register a "kick," that you come out in the open and tell one of the Deans personally. If this method seems too abrupt, a communication can be addressed to this paper in care of the Letter Box, and it will be printed provided the subject matter is of printable nature and the author's name accompanies the missive. The name will not be printed with the letter if it is so requested.

The Deans urge above all, that if you really have something on your mind, or think you are being dealt with unfairly, do not hide behind the cloak of anonymity, but come out in the open. If you are right, measures will be taken to correct the fault; if you need sympathy, sympathy will be forthcoming. Anonymous communications to this paper will always be treated with the contempt which they rightfully deserve.

## COMMITTEES

Now that the class elections are over, the more important work of picking class committees is under way. These committees are made up of the men who will administer the class funds, and it is the responsibility of the class officers to see that men are selected who will discharge their duties efficiently and act for the best interests of the class.

This responsibility is one which an officer should assume with an open mind. Too much time cannot be given in the consideration of the men he is selecting to represent the class, and for whose actions he will be directly responsible.

The resources of a scholar are proportioned to his confidences in the attributes of the intellect.

Cicero

Silence never shows itself to so great an advantage, as when it is made the reply to calumny and defamation, provided that we give no occasion for them.

Addison

## "The Slipstick"

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

## WHATTABOUT AN "E" ?

From the moment of birth  
To the ride in the hearse,  
There is nothing that happens,  
But might have been worse. —Sliv.

Another good thing about aeroplanes is the way they make people look up and promote neck exercise.

## ARMOUR GLIMPSES

—Freshman clinging to his trembling drawing-table, as the "Century" rushes by outside.

—Professor holding class the first day, giving a long speech to his new class, as he intently stares into his book, thumbing its pages but seeing none of the subject-matter. We didn't see his face until he was ready to dismiss the class.

—Freshman trying to absorb some frigid facts concerning polar coordinates.

—A professor emerging from Mission building, and wrinkling his nose as fragrance of the stock yards proclaims its proximity. Don.

Peggy: "My grandmother weighed only two pounds when she was born."

Percy: "Gosh! And did she live?"

## Advice

Say it with flowers.  
Say it with sweets,  
Say it with kisses,  
Say it with eats,  
Say it with jewelry,  
Say it with drink,  
But always be careful  
Not to say it with ink. Al.

Physics prof.: "There seems to be a hysteresis lag in the handing in of reports."

Voice: "Not enough coercive force." Guess Who.

A Pullman Porter was thrown from his car when the train was derailed, and flew ten feet through the air before he hit head first against a concrete post. He lay in a daze rubbing his head when the conductor came running up.

"Great Scott, man," cried the conductor, "ain't you killed?"

"No," said the porter, getting to his feet, "that cement post musta broke ma fall."

## Here's a Deep One

If you have a logical turn of mind you will ask, "What?" If you wish to die young you will ask, "Why?"

Freshie: "Are all teachers book-worms?"  
Senior: "No! Geometry teachers are angle-worms."

## To Our Dear Public

Many of our admirers who have sent in questions to us are probably wondering why "Said" questions were not answered. We have been keeping them a secret in order to give those who have been reading the Slipstick a chance to work their minds during the long and cold winter months. Here they are—"What makes the wheels go around?" "Why do some people have brains and all dogs have tails?" "If two and two make four, why don't they build battleships out of tissue paper?" and above all, "How come a big goof like you was appointed to conduct the Slipstick?"

## EPITAPH

Johnnie went out riding  
In the cool fall air,  
He quickly turned a corner,  
But the corner wasn't there.

A local poet thinks bananas rhyme with pajamas. That is one of the reasons this column prints but very little poetry.

Pick: "So your brother tried to get a government job. What's he doing now?"

Nick: "Nothing. He got the job." Sliv.

"Jim go to Europe on a scholarship this year?"

"No, I think it was a cattle-ship." D.B.C.

Dere Phil J.:

was youse da guy what took me goil to de movie de other nite? Yea she was de jane wit de red coils and de glass eye. Anywey if i finds out dat it was youse den dere won't be any more Colyum.

(Signed) Trodee Pineapple.

Prof. (In chemistry): "In the electrolysis of hydrochloric acid the anions go to the anode and the cations go to the cathode and lose their charges."  
Frosh: "How do they get out?"

The column is done,  
I've had my fun;  
Your just wrath has  
Me on the run.

Phil J.

## Coach William Carl Krafft

(A Biographical Sketch)

BY CHARLES BLAHNA, '31

William Carl Krafft was born on April 30, 1898 at Defiance, Iowa where he received his grammar school education. During the first year, he attended high school at Luverne, Iowa, but finished at Fort Dodge. From high school he went to North Central College in Naperville, Illinois. At that time it was known as Northwestern College. He was graduated from there with an A.B. degree in 1920 and since then has attended various summer school courses at Illinois, Northwestern, and Iowa Universities.

After leaving college he spent two years as athletic director and coach of all sports at Waukegan High School in Waukegan, Illinois. In 1922, Mr. Krafft came to Armour as physical director and basketball coach and for the past five years has added to this the work of baseball coach.

He is well suited for this position having won eleven letters at college for football, baseball, basketball, and track. He was also a member of several state championship baseball, basketball and football teams during that time. Whenever basketball or football is in season he likes to get back into the game, not as a player, but as an official in both high school and college games.

Additional training was obtained in the U. S. Army where Mr. Krafft enlisted in 1917 and remained until the Armistice, a period of thirteen months. He had the rank of First Sergeant in the Field Artillery of the Officers Training Corps, and regrettably stated that if the war hadn't ended when it did he would have been a Second Lieutenant in

## Huge Telescope Uses a New Quartz Glass

When in the future astronomers using the gigantic 200-inch telescope now being constructed for the California Institute of Technology get an enlarged vision of the universe, it will be due partly to a new process for making quartz glass mirrors. To make a smooth quartz surface for the huge telescope's reflector, big enough to cover the floor of a room seventeen feet square, has been one of the chief problems confronting those engaged in the work, according to Dr. Elihu Thomson, of the General Electric Company. It was a laboratory assistant who suggested spraying the quartz on the reflector, somewhat as paint is sprayed on an automobile body. Experiments proved the idea was a striking success. Quartz, ground into white powder, was shot through an oxygen-hydrogen blow-torch, making a flaming stream that splattered the mirror backing at a temperature of 3,000 degrees. When the process is used in the fusing of the 200-inch reflector, it is estimated that enough hydrogen to raise a dirigible will be burned.

one more month (Field Artillery Off. Tr. School).

He is a member of the National Basketball Coaches' Association and a member of the board of directors of the Athletic Officials Association of America.

Like all other individuals connected with the Institute, he has very little spare time. When he does have any, however, he spends it in fishing, camping, hunting, baseball playing or motoring.

On August 16, 1922, Coach Krafft was married and is now the proud father of two boys, one five and the other one and one-half years. Both are to be All-American football players.

## FRATERNITY NOTES

### SIGMA ALPHA MU

Sigma Epsilon of Sigma Alpha Mu wishes to announce the pledging of the following men:

H. Fleyer, '34.  
J. Harris, '34.  
A. Kann, '34.  
C. Masure, '34.  
S. Simon, '34.  
E. Terry, '34.

### RHO DELTA RHO

Rho Delta Rho takes pleasure in announcing the pledging of the following men:

Archie Anders, M. E., '33.  
Abe Brotman, C. E., '32.  
Louis D'Alba, C. E., '34.  
Robert H. Fefferman, Ch. E., '34.  
Albert Feinberg, E. E., '33.  
Harold Feldman, C. E., '34.  
Harvey J. Moskowitz, C. E., '34.

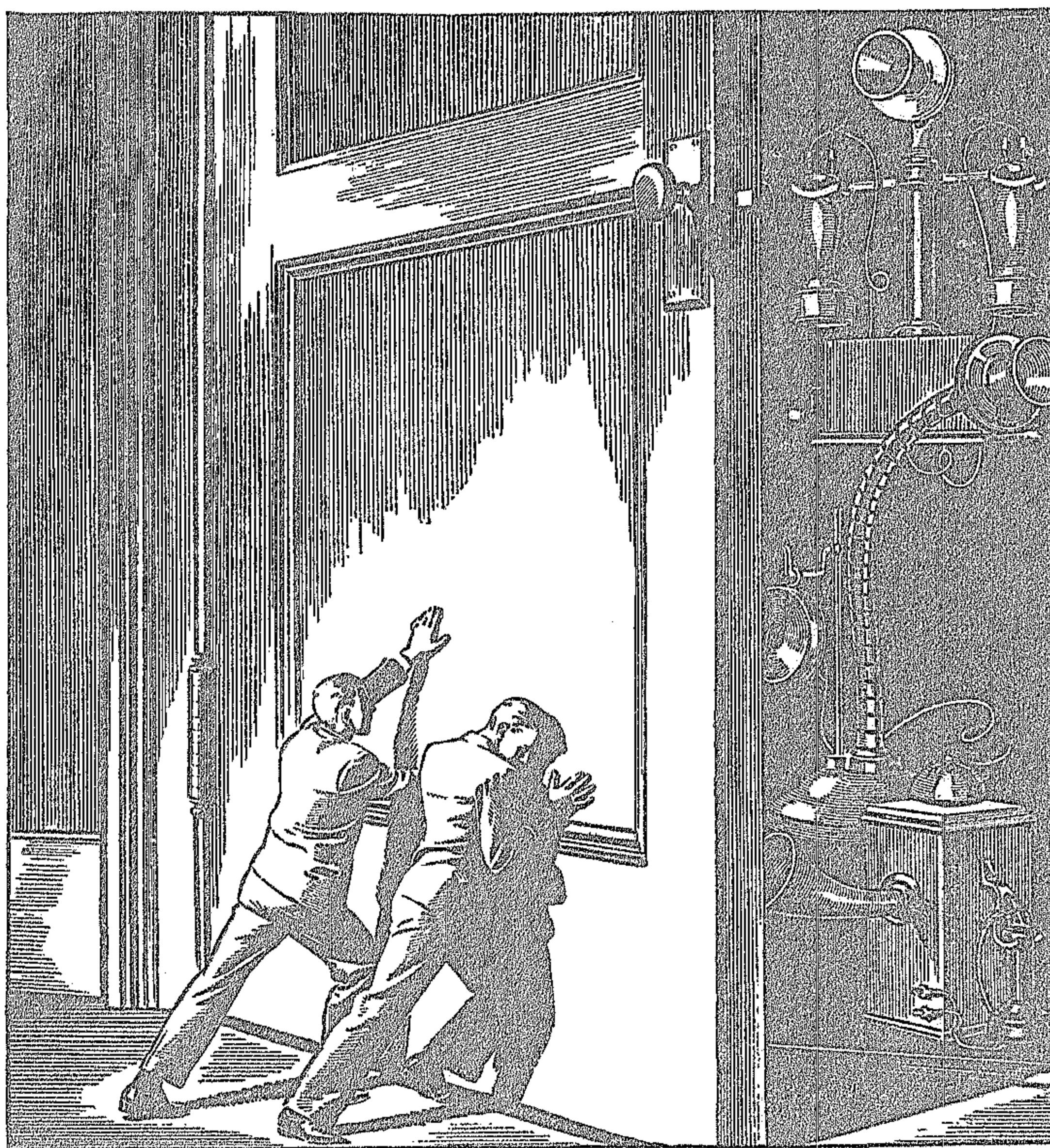
## Huge Bulb Finished For Use in "Talkies"

The newest and biggest "star" in the firmament of the movie world is a gigantic incandescent light, developed in the research laboratory of the General Electric Company to help solve some of the difficulties that are raised by the latest requirements of the moving picture industry.

The complete light includes a vehicular tripod bearing a reflector with a socket at its base in which fits the huge bulb. This bulb is three feet in diameter and is capable of 6,000,000 candlepower. It has sufficient tungsten in its coiled filament for 126,000 ordinary electric lights.

This light is typical of the changes in movie illumination since the "Klieg" lights were found unsuited to the talkies. "Klieg" lights work with a buzzing that interferes with the recording of talking film.

## STEPPING INTO A MODERN WORLD



## They shut the door on hybrid styles

Quantity production of equipment has long been practiced by the telephone industry. Telephone designers years ago shut the door on many hybrid styles—seeking first to work out instruments which could best transmit the voice, then making these few types in great quantities.

This standardization made possible concentrated study of manufacturing processes, and

steady improvement of them. For example, the production of 15,000,000 switchboard lamps a year, all of one type, led to the development of a highly special machine which does in a few minutes what once took an hour.

Manufacturing engineers, with their early start in applying these ideas, have been able to develop methods which in many cases have become industrial models. *The opportunity is there!*

## BELL SYSTEM



A NATION-WIDE SYSTEM OF MORE THAN 20,000,000 INTER-CONNECTING TELEPHONES



## Arx News

Mr. Harvey Wiley Corbett was in the city recently to attend a luncheon with other members of the committee on the World's Fair of '33, among whom were Alister MacDonald, Daniel H. and Hubert Burnham and John A. Holabird.

Mr. Corbett said that the plans for the main buildings including the administration building, the transportation building, the horticultural building, the radio building, the Tower of Light, which is planned to be on 33rd St. at the Lake, and one restaurant are completed. There is also to be an international design competition in which a small, inexpensive dwelling for a man of limited means is to be the subject. There will be villages at the Fair comprising the home and municipal buildings of various nations.

There will be two only man-made islands at the lake front. They will be used as breakwaters for the large inner boating lagoon. Parking will be outside of the Fair grounds and transportation to the grounds from the parking spaces will be by underground taxi service and by buses running on an elevation about eighty feet from the ground.

There was a joint meeting of the Chicago Chapter of the A. I. A. and the Illinois Society of Architects on Tuesday evening, October 14th at the Architects Club, where an exhibition of sketches by Mr. Earl H. Reed, Jr. and R. J. Cerny, of Armour was held.

At the Chicago Galleries Association, 220 North Michigan Avenue, is an exhibition of fifty water color paintings by Richard A. Chase. Mr. Chase's paintings are of Chicago and comprise one year's work. He has been exhibiting for the last three years at the international water color show at the Art Institute.

In connection with this we might mention an unusual offer by the association in regards to a circulating art gallery. It is their offer to place in the home, for a nominal subscription fee, a painting which may remain there for thirty days after which time it may be returned and another taken. The artists, whose work is represented, are from the Middle West and Western states.

In his recent talks, Mr. Frank Lloyd Wright paid tribute to Mr. Louis Sullivan. The memorial to him, done by Thomas E. Talmadge, a Chicago architect, is perhaps the first of the modern memorials inasmuch as it has the set back feature of the sky-scraper.

We regret to announce the passing of the mother of William A. Janssen, '33, and wish to extend our sympathy to him.

## The Legend of the Admen

Hear the legend of the Admen Ere they conquered all creation.

In the Prophylactic forest On the shores of Coca-Cola Dwelt the Moxies in their wigwams Old Sapolio, the chieftain, Pebecco, the grizzled prophet, And the warriors, young and eager.

In the lodge of the old chieftain With Uneeda, more than mother, And Victrola, old and feeble, Lived the warmest of the maidens, Musterole, Sapolio's daughter— Musterole, the Sunkist Chiclet.

All the young men sought her favor, Left their trophies at her wigwam, Brought her thermos skins for raiment, Brought her Tarvia for ointment: And sweet Musterole smiled on them—

Smiled on Vaseline and Pointex, Smiled on Danderine and Jell-o, Smiled on Listerine and Valspar— Smiled but left them unrequited, For her love she gave to no one— Frigidaire alone she gave them.

Then from Multibestos mountains From the tribe of the Texacos, Came the young chief, Instant Postum,

Mightiest hunter in the forest All superb in strength and beauty, He, it was who trapped the Kodak, He, who shot the great Sears-Roebuck, Eversharp his trusty hatchet Every arrow had a Hotpoint.

On him gazed the Moxie maidens— Nujol poured her glowing glances, Bold Carbons sought to win him, Zonite brought him luscious Pyrene: But for Musterole yearned Postum.

Through the fields of ripe Wheatena Hand in hand the lovers wandered, Seated then upon the White-Rock, By the rippling Cuticura— Safe beneath the Palmolive shadows From the boughs they picked the Grape-Nuts.

There they saw the sun descending, Naught cared Postum for the night winds Blowing through the Holeproof forest;

Musterole was there beside him. To his bosom quick he drew her, Held her to his manly bosom, Whispered words with love aburning,

Told her how he'd caught the Seal-pax, Told her how he'd slain Bull Durham, Told her how he'd trapped Ampico,

Boasted of his father's tepee, With its sides of Mentholatum And its rugs of soft Sunoco.

To him, Musterole aquiver, Listened and her heart gave answer. All the warmth of love she gave him,

Gave her Rubberset affection, Gave her heart to Instant Postum, Thus he won her—thus he took her.

## THE FIREBRAND

Edwin Justus Mayer

Presented at the Goodman Theater

With the announcement in the local press of the change of staff in the Goodman Theater this summer, came a state of what might be termed apprehension, but the first production of this season, Edwin Justus Mayer's, "The Firebrand," has dispelled it; it is more than evident that they are surpassing their former high standards.

"The Firebrand" is a portrayal of a portion of the life of Benvenuto Cellini, the master goldsmith, braggart, and lover. The play gives us Cellini as he was; there are no gross exaggerations merely to produce a theatrical effect. When he boasted, his boasts were gigantic in size, yet delivered with that seriousness that marks the man as an outstanding creature; when he loved, his imagination and vocabulary, combined with his reputation, would win anyone. Mayer in this play has written the soul of Cellini into the play.

The play incorporates comedy of a fast and furious nature; the humor is quick and sparkling, and needs no explanation for effect. Humor is rampant; it is present in actions as well as dialogue, and carries the three hours of life spent there into a happy plane from which the falling curtain is a sad descent.

Inasmuch as the cast of the theater has changed, it is only fitting to say that the new members are carrying out the full expectations of Chicago's theatergoers. Dario Shindell, in the title role, has managed to fit the part without effort; he is Cellini. Harry Mervis, as one might expect, plays the part of the Duke of Florence to perfection; his vapidness is ideal, and his actions as the indiscreet conversationalist are mirth-provoking. Ellen Root is again the best of the women, for she has always a quick, convincing style of delivery.

With this play as a criterion, and the list of plays to be presented as a reference, we feel that the Goodman will enjoy another notable season. A. B. A.

Passed the years in quick succession Little Fairies came to bless them, Gold Dust twins and bright BVD, Little Beechnut, Wrigley Spear-mint, Vici Kid and Pluto Water Filled the wigwam with their laughter, So they lived in happy union Safe in peace and strong in warfare, And their progeny continues, Finds a place in town and hamlet Known and loved by every mortal, All the tribes are held in honor.

This the legend I have told you.

With apologies to Longfellow. —The Pied Typer.

## Alumni News

Frederick B. Farrell, C.E., '29, the first managing editor of the News, paid a short visit to the school on Wednesday, October 15th. Farrell has been working with the Bureau of Public Roads, and his work has carried him over a good portion of the nation.

His work is on the capacity and efficiency of the roads in the country, and his efforts are toward getting the maximum results from the existing conditions. In his tours, Farrell has met quite a few former Armour men, and admits he was quite surprised to find them scattered about, and yet so interested in Armour.

William R. Manske, C.E., '30, is an instructor in shop and drawing work at the Bloom Township High School at Chicago Heights.

Russell A. West and Emil Blomme, both '30, are driving to the Chi Epsilon convention being held at the University of Minneapolis.

Milton J. Abrahamson, '28, paid a short visit to the school on last Friday. He has been working on a project dedicated to Hazen, a noted hydraulicist, and is leaving for a project in Kentucky.

Traction companies have long bawled that generosity on the part of motorists which encourages the practice of "thumbing" rides, but few have attempted to back their objections with concrete figures. Now the Eastern Massachusetts Railway says it costs this Boston district electric line 1500 passengers a day, more than \$50,000 revenue in 1929. The company has sought official aid and the police chief of Chelsea has ordered policemen to issue summons to persons caught with their thumbs out in solicitation of lifts.

## Better Tires Is Aim of New Rubber Tests

Rubber is now being tested in a Government laboratory under conditions that reproduce the wear and tear the rubber will meet when it goes out in the form of tires. The rubber section of the United States Bureau of Standards, where the work is going on, is trying to find methods for producing better tires.

Samples of rubber are placed in a new type of "abrasive" machine that wears them down to a certain degree of thinness. The durability of various grades of rubber is determined in this way. The new test is a radical departure from the old method, by which whole tires were worn against a huge metal drum run by an electric motor.

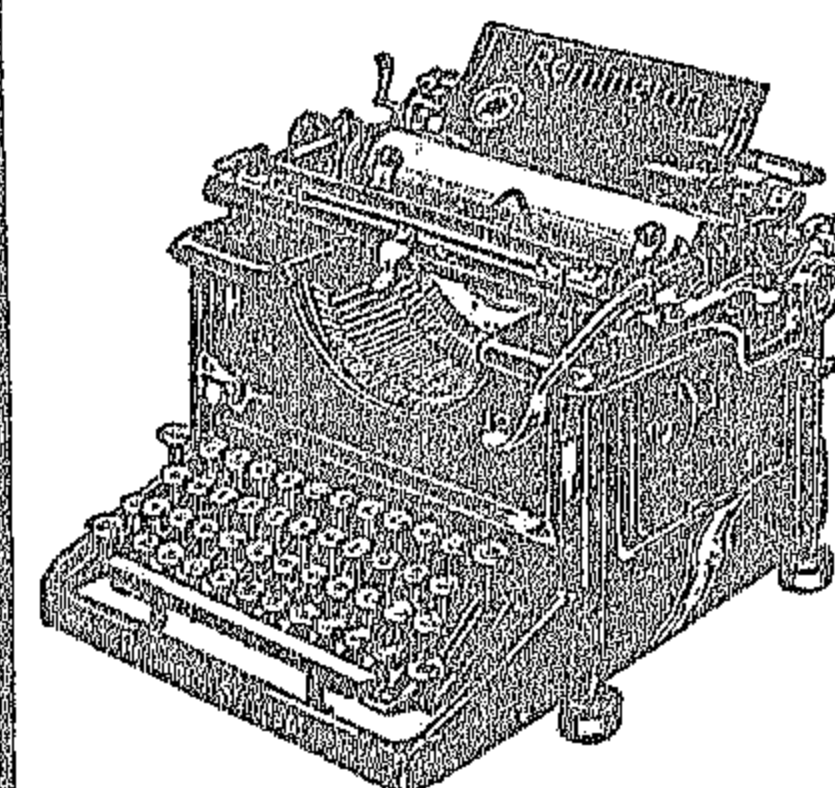
Students at Amherst are divided in opinion as to the advisability of adopting the Dartmouth plan of wearing shorts around the campus.

## Newspapers Printed From Radio Photos

History was made the other day when the front page of a San Francisco newspaper was flashed 2,500 miles from that city to Schenectady, N. Y. Three hours after the paper left the presses, engineers of the General Electric Company at Schenectady were reading the radio transmission of it.

The paper was "delivered" in three eight-inch strips, which were pasted together. The strips were sent much in the same manner as photographs that are dispatched by radio, but the transmission was speeded up.

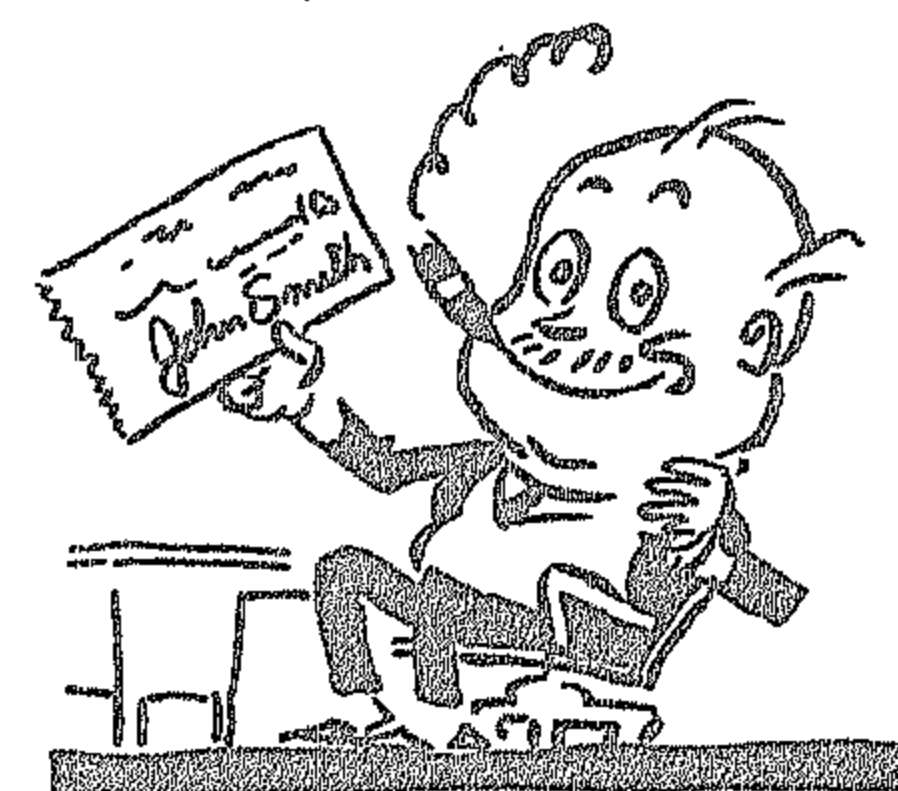
The receiver which was used was a device no larger than an ordinary suitcase, attached to a standard radio receiving set. It printed a facsimile of the newspaper page upon an eight-inch roll of paper, which moved through the machine at the rate of half an inch a minute.



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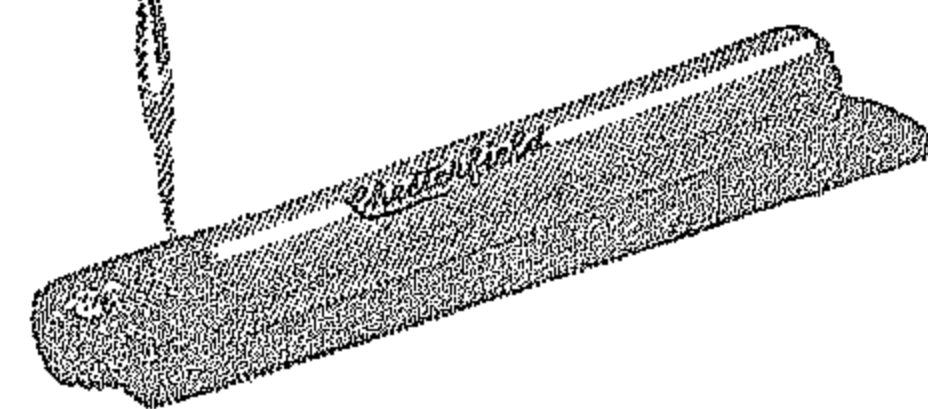
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## SWIMMERS HAVE LARGE TURNOUT THIS SEMESTER

Men Attend Practice Regularly Despite Facilities

### KNOX TO PILOT

With seven lettermen and a number of others, who profited by their work with the team last year, already occupied with the task of preliminary training, it is evident that the Mermen will have a strong bid to retain their status among the most successful of Armour's teams. The success of the swimming squad in the past years has been rivaled only by the brilliant showing of the Tech baseball nine.

Of course Armour may be considered fortunate in getting its share of talented swimming material, but a major portion of the team's success may be attributed to the fact that the squad as a whole has displayed wonderful perseverance and consistency in their training, in spite of the fact that it is vastly inconvenient to journey away from school to train, a necessity caused by the absence of proper facilities at Armour.

In view of this fact, the team is therefore deserving of much credit for overcoming these obstacles and yet making a creditable showing.

The team's roster this year will consist of Captain Knox, Cavanaugh, Weston, Byanskas, Dirkers, Thomson, Giovan, Pfeiler, Davison, and Filmer. The squad at present is exceptionally well fortified in the dash events, although any new men are encouraged to come out.

The breast stroke will be well executed by Cavanaugh and Giovan. Cavanaugh consistently placed second to none other than Trognitz, whose ability may be illustrated by the fact that he was awarded a major letter in swimming, the award for which is usually a minor letter. On this basis Cavanaugh should win all of his races this year.

Captain Knox, who because of his ability and consistency as a point getter, was honored with the position of captain, will undoubtedly contribute his share in the point winning.

New men will be welcome to try out for diving and the back stroke. Thomson, the only diver, is expected to do very well this year.

No difficulty should be experienced in the dash and furlong events as they will be taken care of by last year's men. Due to the fact that a manager has not been formally chosen, a schedule has not been drawn up, but the same competition in the form of Y. M. C. A.'s and colleges, will probably be encountered.

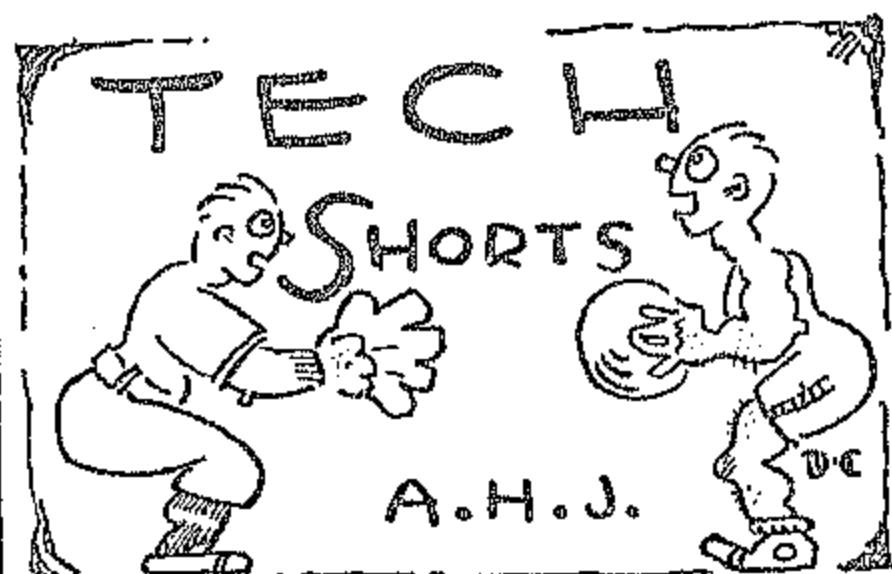
New men are requested to see Captain Knox personally to arrange schedules of work-outs.

## Copper Alloy Makes A New Razor Blade

Razor blades and scissors may now be made from copper, one of the softest of metals in its pure state. The development of two copper alloys, both hard enough to maintain a sharp edge, makes this possible, according to a recent report to the Engineering Foundation. The first alloy is a mixture of silicon (the chief element in ordinary sand), manganese, and copper. Manganese is a grayish white metal resembling iron but not magnetic. It is well known as an ingredient of alloys, being present in considerable amounts in manganese steel. The new alloy was hit upon by Charles B. Jacobs, a metallurgist of the Du Pont company, who was searching for a fairly cheap metal that would resist acids. His discovery of a metal that would hold a razor blade edge was an accidental by-product of his work.

The second alloy is a combination of copper, silicon, and nickel. It is the outcome of researches by Michael G. Corson, of the Union Carbide and Carbon Corporation. It is tempered by being held at 450 degrees of heat for several hours until it is enduringly hard.

It's discouraging to wake up in the morning and find that, even after all the attempts you made, you still are not at home.



### Basketball

Basketball was started last week when the senior class team held an official practice session. However, the gymnasium groups have been playing scrub games for several weeks. Mr. Krafft has shown good judgment in selecting these early dates, for when the call is made for the varsity tryouts the men will be in good condition for long practice sessions.

### Rossing vs. Ott

Practice for interclass basketball has already been completed by the junior and senior teams. Tonight the sophomores and then tomorrow the freshmen will close the preliminary round. When the seniors and juniors clash on Thursday the outcome will hinge largely on the strategy by the rival managers, Stan Ott and Harvey Rossing, both major "A" men in basketball. Ott will determine the senior attack while his team mate Rossing will manage the '32 team.

Upsets frequently occur in the interclass sports. It is the uncertainty of these tournaments that causes the large attendance at the individual contests. To maintain the defeat of the highly touted senior baseball team by the freshmen as an upset is to put things mildly—it was a tragedy. Perhaps this recent upset will create interest in the forthcoming series.

### Fresh Won Last Year

We remember the outcome of interclass basketball last year only too painfully. In the junior-senior class last year it took an overtime period to decide the victim. The '31 team came out on top 16 to 15. Then the '33 boys led by Gustafson took the '32 team into camp 8 to 6. In the final game it looked as though the '31 juniors would have little trouble beating the lowly frosh. Fate took a hand and supplied a streak of greased lightning to the freshman squad in the presence of Vic Gustafson. Hence be it known that the class of '33 defeated the class of '31, 23 to 14 for the interclass basketball championship.

Awards for interclass basketball will be voted by the ex-freshman class at their next meeting.

A manager for the track team is to be selected by John J. Schommer in a few weeks. Seniors who wish to try out for the position may do so in writing to Professor Schommer.

## Armour Men Usher At Four More Games

Seniors and "A" men were given the preference in the distribution of the twenty-five usher passes for the Florida-University of Chicago game last Saturday. They were distributed by C. J. Robin, president of the Armour Tech Athletic Association.

Those receiving these passes are again urged to observe all rules, as any negligence will lessen our chances for receiving them in the future.

The following rules must be observed:

1. Be prompt. (Any man reporting after 12:15 p. m. loses his pass.)
2. Wear coats—not sweaters.
3. Be courteous.
4. Do your best in the performance of your duties.

The remaining games at Stag Field for the 1930 season of the University of Chicago are as follows:

October 25—Mississippi.  
November 1—Princeton.  
November 8—Purdue.  
November 15—Illinois.

## INTERCLASS CAGE GAMES TO START NEXT THURSDAY

Senior Line-Up Will Contain Several Veterans

### FROSH DARK HORSES

Tonight and tomorrow night will mark the close of the practice sessions for the inter-class basketball contestants. On Thursday the lid will be blown off when the seniors meet the juniors in the first inter-class hardwood contest of the season.

Another game will follow on Friday between the sophomores and freshmen, while the championship game will take place on Tuesday of next week. All practice sessions and games are scheduled for 5 o'clock in the school gymnasium.

If past results bear any significance in the way of prophesying the winner, then the freshmen must be conceded the championship. They overcame the other class teams in the basketball classic last year, and repeated in baseball this season. Regardless of the nature of the school tournament, freshmen always enter the race as dark horses, leaving little to be known of their ability.

The sophomores, last year's winners, do not appear as strong this season. Three of their former stars will be missing from the line-up, leaving Gustafson as the remaining man of the foursome that made the juniors and sophomores wither under their attack.

In all probability the seniors will do the conquering. The majority of last year's players will be in the line-up to present a winning combination. At present they appear to be more able than the sophomores and juniors, and if the freshmen refrain from staging another surprise party, it is quite evident that the June graduates will do most of the winning.

Stehno, Pepe, Draus, and Schirmer will be among the staff that looks forward to acquiring some of the honors that have been drifting to the freshmen.

## New Faces Seen in Boxing Lineup

Followers of the Tech boxers will see different faces when they turn out to root for this part of the sports program this season; chiefly due to the fact that the outstanding men have either gone out by the graduation route or have decided to devote more time to their studies. Some of the boys are ineligible and hence will be unable to report. Among the missing will be Larkin and Mitchell, who devoted much of their time to this sport in the past and are veteran letter men. They have decided to stay out this semester on account of strenuous studies. However, some of the experienced leather pushers will be there to break in the green material and are coming back as strong as ever, notable among these being Nelson who has three years of experience behind him.

The preparation of a schedule is now the chief concern of Captain Ustrycki and he has been making efforts to arrive at some definite understanding with several Y. M. C. A. teams and smaller colleges. Letters have been sent to several of the "Y" managers including the Bloomington (formerly State Champions); Lincoln and Belmont; Hyde Park; and West Side mentors. Negotiations are also pending with De Paul University and when the business has been straightened out, a complete schedule will be published on this page.

## 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 1. Players of rival teams fall on fumbled ball. The referee in endeavoring to determine who recovered the fumble finds that the quarterback of the offensive team has scissored the ball between his legs, while one of the opponents has covered it with his body. What is the referee's decision in this case?

Answer:—Questions of this nature are hard to decide, sometimes there are as many as four players holding the ball, leaving the referee to decide on a guess.

Question 2. As it is illegal for a guard to receive a pass will he be permitted to receive one provided one of the opponents touches the ball first?

Answer: Yes, when an opponent touches ball on forward pass, all members of the passing team immediately become eligible.

Question 3. Offensive team punts ball. Man on defensive team reaches outside the side bounds of the playing field to catch it, but does not place his foot across the line. Will he be permitted to advance it?

Answer: Yes, the ball is not ruled to be out of bounds until it actually hits the ground outside the playing field.

Question 4. Offensive team makes second incomplete pass in succession on their own three yard line. In making the five yard penalty will the referee carry the ball back of the goal line, giving the defending team a safety or will the ball be placed on the one yard line?

## Golfers to Arrange for Practice Matches

Golfing activities will not begin until the earlier part of next spring. However, Professor Leigh would like to meet any prospective men who have any golfing ability whatsoever. Practice matches will be arranged for those who get in touch with the coach or manager.

From this, a fair idea of what next year's team will be like, can be ascertained from the turnout this fall. Due to the fact that other activities were late in getting underway this season, and several of the regulars graduated last year, no tentative schedule was arranged for the fall term.

Indoor practice has not yet been definitely decided upon for the regular members of the squad.

Answer: The ball is placed on the one yard line. The referee can not at any time place the ball behind the goal line in penalizing a team.

Question 5. When a team takes a two minute regulation time-out, do they resume play after the two minutes have expired or are they compelled to take their positions on the field before the time is up?

Answer: The timekeeper usually notifies the referee 10 seconds before the time elapses. The captains are then obliged to assemble their teams for the next play.

## PAIR OF REGULARS TO FORM NUCLEUS FOR TENNIS SQUAD

Recruits From Freshman Class Show Form

### KRAUSE IS MANAGER

The tennis squad has a bright future to look forward to next season. Although only two men are back from last year's squad the freshman class has several good prospects to offer.

Captain Eddy and Walter Schirmer, both seniors, are the only regular men back. The best looking candidate in the frosh outfit is Louis Streb, a Calumet High School grad, who has an almost clear record. In two years of prep competition he has never lost a match, and was captain of his squad as well.

The second round matches of the tennis tournament will probably be announced on Thursday or Friday of this week.

Rain has spoiled many of the park courts but the matches will have to be finished according to schedule.

R. Krause, '31, has been appointed manager for the tennis season of 1931.

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