



Senior Spree At Lake Shore Friday Night

What could be a better way to celebrate the start of Christmas vacation than to attend the Senior Informal? The week-end will not be packed with Monday's quizzes, and the mornings can be spent in recuperating from Friday's "rug-cutting" and damaged toes. By the way, the Social Committee has not said anything about mistletoe, but no one will object if you were to bring your own, or do you need any excuse? Even if Friday is cloudy the couples who like starry skies, will not be disappointed, because the ceiling of the Main Ballroom of the Lake Shore Athletic Club is midnight blue generously sprinkled with stars.

Free Parking

On arriving one may park (and without charge) in space to the south of the club and then use the private entrance on Chestnut Street to go up to the ballroom.

The subtle blending of catchy rhythms and capably arranged melodies into sweet stylish swing for which Anson Weeks and his orchestra have become famous will be the musical cause of everyone enjoying himself. To people familiar with the Aragon and Trianon, the name of Anson Weeks is well known, and almost without exception his popularity is universal. "Dancin' with Anson" at the "Senior Christmas Party" will last from nine-thirty until one.

Novel Bids

The bids are designed in a true holiday spirit, and consist of red suede covers cut in the shape of bells. The silver pages within the covers contain in addition to the usual information, many seasonal designs. The bids are tied with green tassels and packed in parchment envelopes. Make one of these part of your present to "her" this Christmas.

Erection Begun On Foundry Lab Research Unit

The Research Foundation of Armour Institute of Technology recently announced that the laying of the foundation for their experimental foundry to be located at 84th and Federal Street is completed and that construction of the new building is now well under way.

The construction of the foundry will mark a further step in a planned program for the developing of complete facilities for fundamental and applied research in the fields of iron and steel production. It will have complete research and testing facilities in the field of iron and steel production. The Foundation is already engaged in metallurgical research projects for a number of Chicago metropolitan area industries. These include research projects in refractories, crystalline structures and changes, strain corrosion, abrasion, heat treatment, seizure and galling.

Founded by Fund

The foundry is to be used primarily in connection with the activities made possible by the Wetherill Research Fund, recently established by Colonel S. P. Wetherill of Philadelphia. The Fund was specifically established for the purpose of advancing the method of counter-gravity die-casting of iron and other high melting metals.

Die-casting of metals is a comparatively recent discovery and its successful development would be of tremendous significance to all industries. The method of counter-gravity die-casting is intended to replace the old gravity flow sand mold with a metal mold located over the crucible of molten metal. The molten metal is to be forced through a refractory tube into the die or mold, under air pressure. The resulting casting is expected to be far superior to the present sand mold casting, being stronger, finer grained, and possessing a smooth surface not obtainable by the old method.

(Continued on page six)



Cycle Cover To Be Designed by Archs

Cycle pictures will be decidedly "different" this year, according to editor Eugene Worcester, who cordially invites student photographers to submit appropriate pictures for the yearbook. The tentative makeup of the book was completed by the staff last week and includes approximately 224 pages.

Pictures will be handled, as last year, by Marshall studios and will stress informality in class activities as well as sports photos. The cover, for the first time, will be designed and executed by a number of architectural students, who will also do the art work on the inner pages.

A.T.S.A. Plans Archery Range

Armour Tech's Student Association met last Wednesday and brought forth a number of new items which should be of interest to the student body. Among the suggestions discussed was one which provided for the installation of an archery range in the court between Chapin Hall and the tennis courts. Nets and other safety precautions will be set up for the protection of the participants as well as the interested watchers.

A vote taken on a proposition to install hockey as a standing sport at Armour resulted in a defeat for the proposition, owing to the great expense involved in the purchase of equipment and the upkeep of a home ice-rink as well as the necessity of meeting traveling expenses for meetings with other schools. On the other hand the Association will go ahead with plans for the purchase of two ping-pong tables and their placement in the Student Union.

Plans for Banquet

Plans have been formulated for the annual Fathers' and Sons' Banquet to be held sometime in February or March. This year's affair will again be held at Armour and provisions will be made to accommodate a crowd larger than that which attended last year's event and which overcrowded the dining facilities, at that time.

The budget for the fiscal year of the A.T.S.A. will be published in a future edition of the Tech News.

Math Profs to Present Talks

Heading the list of prominent mathematicians who are to deliver papers at the combined meeting of the American Mathematical Society and the American Association for the Advancement of Science, to take place December 26-29, will be three members of the mathematics department of Armour. The three men are Dr. J. W. Calkin, Dr. Rufus Oldenburger and Dr. Carl Menger.

Professor Calkin, formerly of the University of New Hampshire and a graduate of Harvard, will present a paper entitled "Semi-bounded Forms and Self-adjoint Value Problems." Dr. Oldenburger's paper will be on the subject "Symbolic Elements in Dynamics."

Although the third speaker, Professor Carl Menger, is head of the department of mathematics of Notre Dame, he also gives a seminar in mathematics at Armour.

A fourth Armour professor in line for distinction is Dr. L. R. Ford, who is a candidate for the position of vice-president of the American Mathematical Society. The election of officers will take place at this meeting of the society.

Eta Kappa Nu Men Initiated at Dinner

Nine students in the electrical engineering department were initiated into Eta Kappa Nu, honorary E.E. fraternity, last Friday at a conference of the national organization held in the Civic Opera Building.

Members and initiates were excused from classes Friday, so that they could participate in the program, which lasted the entire day. The chief topic discussed was employment of men in the electrical engineering profession. Among the speakers were prominent engineers from the central states, and national officers of Eta Kappa Nu. Faculty members who represented Armour were professors Freeman, Nash, and Reed.

The formal initiation, held at 6:30 P.M., was followed by a banquet. Seniors who were initiated are Floyd E. Anderson, Edward H. Horn, Walter Kreydich, Kenneth F. Oldenberg, Edward M. Rosenthal, and James A. Rummell. Junior members are James D. Brown, Ben R. Cole, and Lionel H. Naum.

Glamour Girls Pose For Photographers At Studio Meeting

Living models posed last Friday night amidst the contorting, squinting, shutter clicking, picture minded members of the Armour Eye. This "beauteous" affair was the first studio meeting ever presented by the club and is expected to be the beginning of an interesting activity.

Surrounded by tripods and cameras, backgrounds and reflectors, the members and their dates posed according to the fundamental theories of portrait and full-figure photography. Problems of the portraiture of rosy cheeked maidens and freckled faced lassies were demonstrated. The posing of the "blond," a pretty young lady named Wynn A. Fortune, proved to be the highlight of the evening.

Suggest Positions

Each member had previously studied the characteristics of a given pose and led in the carrying out of its main theory. The other members helped with suggestions as to the manner of crossing legs, placing the hands, and holding the head.

Surrealistic superimposition was demonstrated and partial pictures were taken for later manipulation in the laboratory of the club. Surrealistic superimposition is the composing of a surrealistic picture by means of skillfully placing negatives of different pictures on top of each other and projecting the combination on a finishing paper. The pictures being elements of a particular idea which the final print will symbolize.

Players Give "Brother Rat"

Heading the calendar of the new year's school events will be the first of two plays to be produced by the Armour Players. This year's initial endeavor will be "Brother Rat," written by J. Monks Jr. and F. Finklehoffe, and will be presented Saturday, January 6, in the Student Union Auditorium.

"Brother Rat" is unique among Armour presentations as it is a play depicting life in a large southern military college. The play was written for realism, that is, the language and action are natural. On the technical

(Continued on page five)

Gala Christmas Assembly Thurs. Musical Clubs Feature Carols

French Scholar To Address Institute At Special Meeting

Abbe Ernest Dimnet, world renowned scholar and author, will address the student body in a special meeting on Wednesday for which all classes will be dismissed. Famed for his book on *The Art of Thinking*, still a best seller after eleven years, as well as *What We Live By* and *My New World*, the Abbe comes to the Institute as a European lecturer and philosopher of outstanding merit.

Formerly a professor of English Literature at Lille, France, and later a member of College Stanislaus, Paris, the Abbe delivers his speech as one of the many that have been and are to be given in this country. His familiarity with the "American Way" is evidenced by Sinclair Lewis' tribute: "He has seen everything from junction lunchrooms to the White House and knows America ten times as well as most visiting English viewers, and expresses what he knows with a hundred times as much sympathy."

Wide Education

Few Frenchmen writing in English have achieved such literary distinction. Educated first in Cambrai, and then at Lille, Abbe Dimnet received the background for his work as a teacher from the great poet Angelier. Not only in the field of literature but in that of public speaking as well, the Abbe is a master. In smooth, faultless diction characterizing a simple reserved style, the Abbe conveys to the audience an atmosphere and philosophy that is definitely continental. He is truly a cultured gentleman, and a much needed antidote for the bombastic and barbarous voices now piercing the European air.

Free Tuition To Be Given to Five Freshmen

Armour will award five one-year scholarships to male graduates of February, 1940, from accredited public or private high schools. These scholarships provide free tuition for the second semester of the academic year of 1939-40 and the first semester of 1940-41 and are worth three hundred dollars. The awards will be based upon a rating determined by competitive examinations, and by consideration of the personality, the scholastic record in high school, the extra-curricular activities, and the general fitness of the candidates. The examinations consist of a personal interview and a written examination in mathematics, physics and chemistry.

No English Exam

There will be no separate examination in English. The candidate's ability in English expression will be judged by means of a personal interview, and by means of a short essay prepared in connection with the written examination in chemistry and physics.

Scholarships will be awarded only to students who meet the Institute's requirements for admission.

The written examination will be held at Armour on Saturday, January 6, 1940, at 9 A.M., and will be three hours in length. Each candidate must present himself at the office of the Registrar for a personal interview between November 27 and January 3, inclusive. Interviews will be held between the hours of 10 A.M. and 4:30 P.M. each week day, except Saturday, when the hours will be 9 to 11:30 A.M. No interviews will be held during the Winter Recess, December 18 to January 1, inclusive. For students outside of Chicago and suburbs, special arrangements will be made for both the interview and written examination.

"Mad Russians" to Give Novelty Number

Sixty-five blended voices raised in popular semi-classical harmony, forty musical instruments throbbing in powerful rhythm, seven hundred throats pulsating to the strains of familiar carols, and the Armour Tech annual Christmas Concert will get underway under the direction of O. Gordon Erickson, Thursday at 10:10 a.m. in the Student Union Auditorium.

Gaily decorated in the yuletide manner, the hall will be the scene of a gala, 90 minute musical celebration in honor of the approaching holidays. There will be no classes during this period in order that all the students and faculty may attend. To promote a closer bond between the school and the student's families, they will be particularly welcome at this occasion.

Many Features

Abundant with surprises, the program will be dotted with special solos and novelty numbers. The glee club has a double octette, sixteen men, to render several specialty arranged numbers. A french horn quartette, scarce because of the lack in players of these instruments, will also be in the spotlight. Ted Gromak and Herb Hansen, the "Mad Russians", will "invade" the stage with guitar and accordion to give one of their humorous features. Occupying the limelight will be the orchestra and glee club—"the finest musical clubs since I came here", says director Erickson. "More good men have been attracted to the organizations than ever before."

The program for the day is as follows:

Christmas Carols	
Audience, Glee Club and Orchestra	
Orchestra Suite	 Colridge-Taylor
Orchestra	
Glorious Forever	 Rachmaninoff
Bird Song at Eventide	 Coates
Omniptence	 Schubert
Glee Club	
In the Moonlight	 Kettelby
Evening Star from Tannhauser	
.....	 Wagner
Adagio Dance	 Herbert
Orchestra	
Morning	 Steaks
Cossack Love Song	 Kountz
Winter Song	 Bullard
Glee Club	
Espana	 Waldtspeil
God Bless America	 Irving Berlin
Roll Cruiser Roll	 Erickson

(Continued on page five)

Stanton Winston To Direct Midwest Power Conference

One of the foremost authorities on steam power engineering, Professor Stanton E. Winston of the Mechanical Engineering department, has been named director of the next annual Midwest Power Conference at the Chicago Palmer House on April 9th and 10th. The conference is sponsored by Armour Institute of Technology with the cooperation of several midwestern colleges and universities as well as local engineering societies.

Winston President

Serving as conference secretary during past sessions, Professor Winston succeeds as director Dr. L. E. Grinter, dean of the graduate division. The responsibilities of the secretary will be assumed by Professor Charles A. Nash of the electrical engineering department.

The preliminary program is now being marked out. Professor Winston announced, and added that further developments will be released for publication from time to time.

The purpose of these annual power conferences is to provide the opportunity for all persons interested in power production, transmission, and consumption, to meet together and discuss technical problems and latest developments in the field.

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The Lunchroom

The cafeteria, dearest friend of the Armour student, and perhaps better known as the non-profit lunchroom, is again open to criticism as a result of the meals which have been dished out in recent weeks. May we take this opportunity to make a few suggestions.

Perhaps the most needed change is to get some variety in the menus. Roast sirloin of beef has come to be an institution with the menu board. We wonder what ever happens to the other half dozen cuts of beef which are on the regular market? To further that point, what ever happens to the other meat-bearing animals which appear in local markets? What a pleasure it would be to find some roast leg of lamb, real spare ribs, shoulder lamb chops, ribs of beef, a rolled roast, a real boiled dinner, or an honest lamb stew with plenty of nicely prepared vegetables. These items do not run to prohibitive prices, they are served in many restaurants elsewhere, and would certainly be a treat to the patrons here.

During the winter we all need fresh fruits and vegetables. To this end may we suggest that the menu planners place at least one fresh vegetable on the list each day. Turnips, fresh salads with oranges or apples, some fresh spinach, fresh cabbage, and a serving of new carrots or onions would all help in this direction. The usual canned corn, tomatoes, beans and spinach are getting quite monotonous.

Variety in the desserts could also be worked in. Ice creams are made in more than a dozen popular flavors these days, but all we seem to get is vanilla, and once in a while chocolate. If the refrigerator can hold more than one can of cream at a time, why can't we get some maple nut, chocolate chip, pistachio, butterscotch, and the newer flavors like New York cherry, cherry pineapple, or toasted almond? A couple of new kinds of topping of the usual quality used by drug stores and ice cream parlors, not lumpy marshmallow or sugary butterscotch or watery chocolate, but the real stuff, would be a welcome addition. Getting the can with a malted milk might surprise some unsuspecting student one of these days, too.

To the best of our knowledge the equipment in the lunchroom was bought and paid for by the sale of Union bonds which the students are redeeming by the payment of the \$3.00 per semester Union Fee. In other words, we bought the things, albeit a bit indirectly. With the lack of other overhead in the form of taxes, licenses, and higher waitresses salaries, the expenses of the lunch room are well below those of outside food purveyors. If other restaurants, forced by the impetus of ever-present competition (another factor with which the lunch room does not have to contend) can put out meals of the standard we find in most places, then why can't we get better stuff for our money? The amount by which the institution treasury is enriched each year from the proceeds of the lunch room and bookstore, combined, does not make up a very big proportion of the total budget of the school, yet the nickels and dimes mean a lot to the individual student. It all simmers down to the statement that we do not feel that we are getting our money's worth, and our own equipment is being used in the process.

"The Slipstick"

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

MERRY CHRISTMAS AND A SLAPPY FOO YEAR
TO YE ALL!! Now that we have made this a Yuletide column we can whip right into the gay festivities... Lest we forget there are 13 days, two hours and fourteen minutes to Christmas.

What we want for Christmas
(1). Packard Roadster
(2). Russian pajamas
(3). Fraternity ring
(4). Straight A's
(5). Trip to Palm Beach

What we will get
(1). Red necktie
(2). Woolen Underwear
(3). Book of Mrs. Browning's poetry
(4). A cold
(5). Call from the Dean's office
(6). Hell

As far as I know, Santa Claus is the only man living who can run around all night with a bag and not get talked about.

Gin may take a decent gink
And make of him a perfect sink.
Though wine may make one mighty mellow
I'll leave that for the other fellow.
Whiskey is a drunkard's drink;
It makes a man a bum, I think.
Good beer I'm told is now quite old,
And like rare cheese is full of mould.
Oh, liquor is no doubt a curse
That takes one soon from bad to worse.
But if I seem a holy bloke,
The reason is I'm stony broke.

Social Worker: Do you owe any back house rent?
Relief seeker: We ain't got a back house. We have modern plumbing.

Dear Sir:
I'm engaged to an Alpha Epsilon Foo. I have been informed that you were seen kissing her. Kindly call at my fraternity house at 11 o'clock Friday and make an explanation.

Collegiate Joe.

Dear Joe:
I have received a copy of your circular letter and will be present at the meeting.

My end draws near, said the wrestler as his opponent bent him double.

Bill Jones' wife had gone to another city to consult a doctor. Bill celebrated the occasion by sending the children to their grandmother's and inviting some friends out for a poker party. While the game was in session the telephone rang. "Postal Telegraph Speaking," said the impersonal voice on the phone. Telegram for Mr. William Jones. "Read it," said Jones nervously. "Regret to state that your wife has tumor. Signed F. B. Hopkins, M. D." Jones dropped the receiver and turned a white face to his friends. "Heavens," he said, "my wife has twins!"

Smart He: Have you heard the sextet from Lucia?
Ignorant She: Now, John, no stories—you promised.

The chiroprapist entered his office and found his assistants loafing: "All right, boys," he snapped, "on your toes."

Dear Son:
I do hope you will come home for the Christmas holidays. Mother and I have arranged everything so that we will be ready to receive you. All the cars are going to be overhauled and painted during the vacation so that you will not be able to wreck them. Your brother's bank has been emptied and the money deposited in the bank where you cannot get it. My ties, shirts, socks, gloves, tux, etc., have been placed in a strong trunk, for which I have the only key. My cigars and cigarettes will not be available as I am locking them in a humidior. I hope you will come to see us. I know that I shall enjoy your visit very much.
Love,
Dad.

P.S. I also fired the maid.

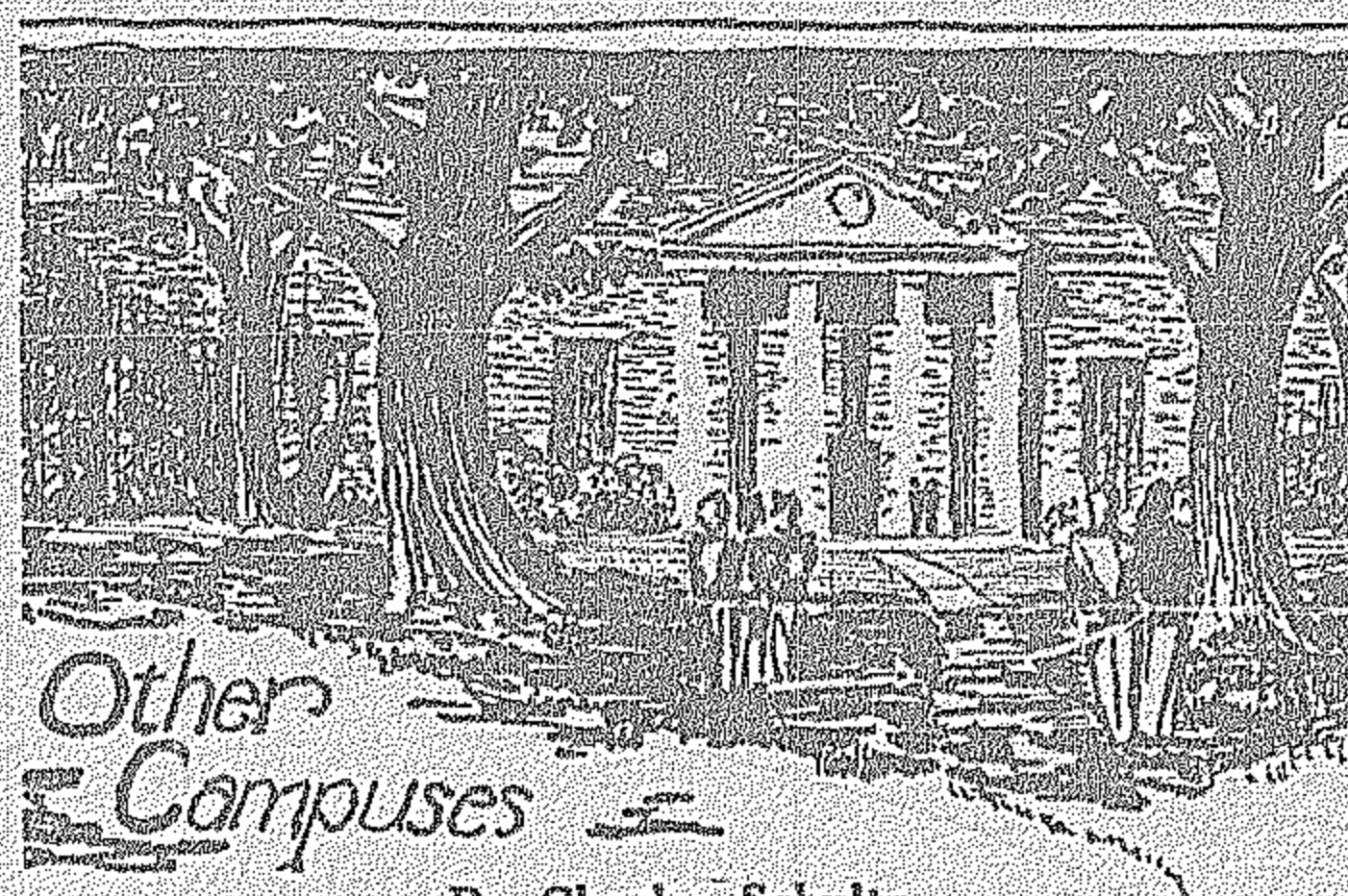
This business of thinking up jokes
Has got us a little daunted
The ones you want, we can't print
And the ones we like aren't wanted.
—Or are they?

As others see us: Suggestion for an opening sentence for a novel depicting college life: "A small coupe drew up in front of a fraternity house and twelve passengers alighted." As we see ourselves: "A small coupe drew up in front of a sorority house and nobody alighted for two and a half hours."

"I didn't think you'd let me down," said the trapeze artist as his partner missed his grasp in mid-air.

Lest we forget there are thirteen days, two hours, and fifteen minutes to Christmas. May you all have a very Merry Christmas and for your continuous patronage may we wish that your stocking be filled with goodies and Betty Grable's legs.

Hi YO Silver.



By Charles Schultz

Worcester Polytechnic Institute is having a new Chemical Engineering laboratory installed.

At Armour Institute of Technology, a kind hearted prof. offered the students in his class twenty-five points for writing their names on their test papers during a juicy brain squeeze. One enterprising brain-truster slapped his name on the paper three times and received not a grade of twenty-five but the total of SEVENTY-FIVE! He only slipped up on one point; he should have written it down four times. (Motto—Read your paper from cover to cover.)

Recently a professor at Indiana Tech was calling the roll and three students were subsequently marked absent. Suddenly nine students walked in the room! Looks as though they need some slide rules out there.

The University of Kansas Witans have just published a book titled "Lady Love." This little publication tells the coeds what they have or lack. Mostly what they lack.

Washington College is now offering a course in practical criminology.

A chemistry class at the University of Toledo had to decamp in a hurry recently when a dabbling student evolved a mixture that was really stinko. Investigation proved the vile broth to be tear gas.

William Kimmel, a music instructor at Michigan State, has just stated that the jitterbug is dying a slow death and will become extinct in about a year.

Under outside journalistic pressure and public opinion, the students of Chicago U. are agitating for board move- (Continued on page three)

Stoopbrain Bliss In Holiday Dither

TELEGRAM

Miss Sally
Smoky Hollow, Kentucky
Dear Sally
Merry Christmas and a Happy Noo
Year stop Will be hoam next weak
on the twilite milk train stop Am
sorry I haven't ritten but I hav ben
so busy stop Bige danze thiz weak
comma the senyor christmas party
stop Hot dog comma Hansome Weakes
and his orchestra stoop Am looking
forward to Christmas withe yew stop
and the rest of the people down hoam
stop Hav got a beautiful date fore
danze stop Five feet twelve inches
tall in stocking feet stop And as a
emas greeting comma remember comma
santa might wear Red but fore
hiz presents he doesn't want a Finn
stop Will rite next year stop

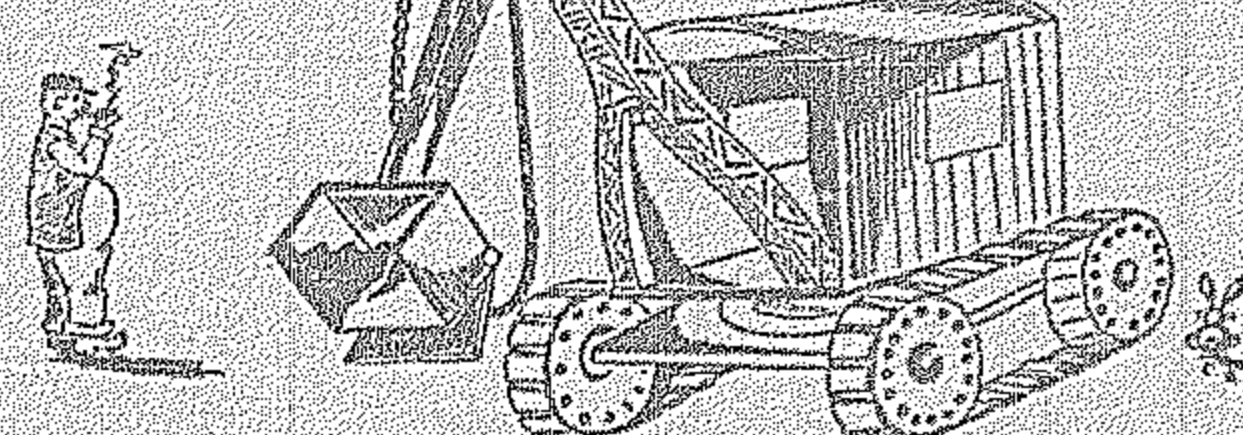
Yures
Stoopbrain Bliss

Santa's Lament

He sat all alone in his cold Arctic
lair—
A red-robed figure in deep black de-
spair.
Jeered by the world, jilted by fate,
Pursued by the cry, "You're out of
date."
His fondest pride, eight nimble rein-
deer
Exiled by progress—thrown out on
their ear,
Are wandering o'er wastelands in
desolate state,
They too hear the cry
"You're out of date!"
At last roused to action by hurt born
of scorn
The outcast—although his conscience
is torn—
Sits down to write this message—
Hear! Hear!
To whom it may concern:
I old Saint Nicholas, harried by fate
Hounded by cries—"You're out of
date!"
I plead to you with supplication
Please send some new transpor-
tation—
Please send a streamlined lalapalooser—
Like Armour Institute's new Snow
Cruiser!

H. C.

STEAM SHOVEL



Maybe Frank Heidenreich, who never was on the receiving end of an elastic experiment 'till four weeks ago, has jumped the track. Four straight bouncers in four weeks... moral: Don't live next door to 'em lads.

Entertainment galore will take place at the Senior Dance, especially when Hal Davy pits his "feminine charms" against Bill Skeen's. That's a profitable position the boys on the judging committee have.

Raucous screams, thundering noises smote the ears of Joe Smith, Elmer Bauer, and Roland Jackel last Friday, as blindfolded, they were led into the News Office and locked in the Filing Closet. The occasion: The Alpha Chi Sigma Initiation. Sound Effects: Through the courtesy of the Armour Tech News Feature Staff.

Rumors are being circulated that Bob "Kiss Me Again" Lange is quite red in the face these days.

Your Cycle Editor, Eugene Worcester, has the right idea. Helen Tomlinson, his fiancée, furnished him with trucking service last Friday, delivering him to the school and picking him up in a '39 Packard.

Donald "Duck" Ely fears Professor McColley has his number. Upon congratulating the 'Duck' for the highest grade on the last quiz, he remarked to his logic class: "This just goes to show how easily this subject can be mastered with little work."

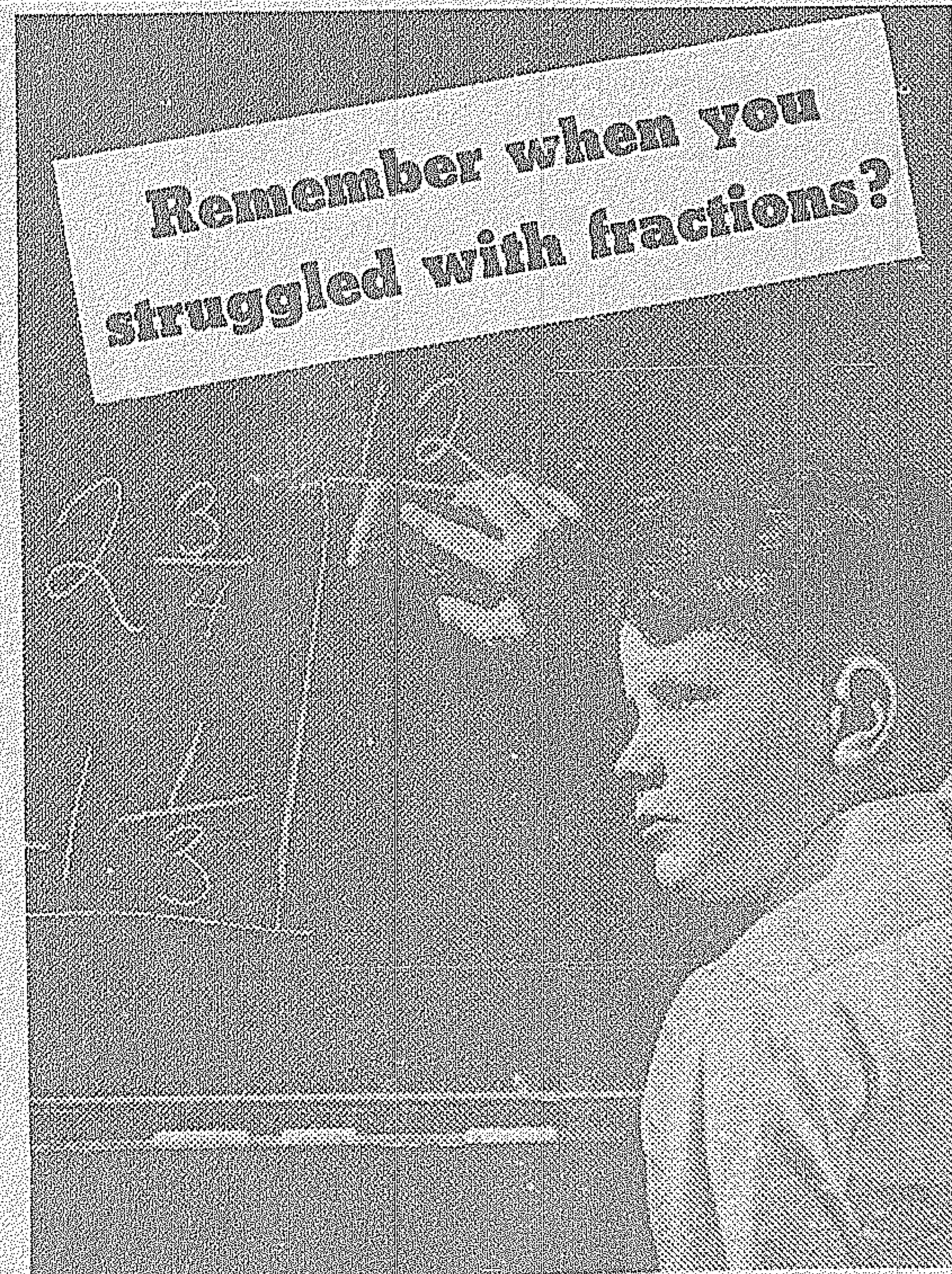
Christmas present to Ed Michalek, this year, is his girl's decision to not get engaged to some other fellow.

Herman "Crunch" Krantz, with his tongue hanging out, dashing madly off to the Rialto after dumping the notes of his column in the lap of the rewrite department.

Riotous results were produced when Woods and Kuera went out on a bender Friday night after the coop finals.

Imagine Professor Simpson's surprise when Lester (Continued on page three)

Remember when you
struggled with fractions?



You'd be surprised how telephone
engineers put them to work for you

How to put more and more wires into a telephone cable without increasing its diameter is an ever present problem at Western Electric—manufacturing unit of the Bell System. Existing ducts beneath city streets limit both the number and the diameter of cables—but demand for telephone service continues to grow.

Until recently, the largest cable contained 3636 wires in a diameter of 2½ inches. Years of study led to an entirely new insulating process that saved 3/1000 of an inch per wire. Multiply this tiny fraction of an inch by 3636, and you provide enough space to place 606 more wires in the same size cable!—a total of 4242.

With such resourcefulness, Bell System engineers meet countless problems. Result: you can talk to almost anyone, anywhere—quickly, at low cost.

A telephone call home would be appreciated. Rates to most points are lowest any time after 7 P. M. and all day Sunday.



FRATERNITY NOTES

Friday night, December 8, Alpha Phi chapter of Pi Kappa Phi celebrated the founding of the fraternity. The alumni in the Chicago area cooperated to make the banquet, held in the Congress Hotel, a huge success.

Wednesday, December 6, Alpha Sigma Phi also held a founders celebration. It seems that Harry Shaw enjoyed the program that followed the official one the most.

Saturday night Delta Tau Delta held its Christmas Dance. The main attraction of the dance was the grab bag. The restrictions laid down by the committee were observed in the main, and only a few of the more innocent were embarrassed.

The ping pong tournament went merrily on its way last week, with the Pi Kappa Phi team beating the Deltas in a hotly contested match. The match next week should be even more hotly contested as the Deltas will be making a strenuous effort to remain in the battle.

Splash went the Rho Deltas Friday nite at the Sovereign Hotel pool.

Bud Murphy, the traveling secretary of Delta Tau Delta is making the Gamma Beta chapter house his headquarters this week.

FRATERNITY PERSONALS

Mrs. Peterson, the cook, was accused by certain of the pledges. It would appear from their accusations that she got up at midnight and put cornflakes in all of the beds. If you doubt the truth of these accusations, just ask any Delta Tau Delta pledge.

We hear that Don Charlton, Phi Kappa Sigma had an unfortunate encounter with the intestinal flue. A black eye is the main outward sign.

Buddha Willman woke the whole Delt House at about 6:30 Thursday morning, when he came down from the Pi Kappa Phi house to get Warren Umbright to go out to the airport. The two of them are now contestants to see which of them is the most unpopular.

Jim Brown of Alpha Sigma Phi was one of the three juniors initiated by Eta Kappa Nu.

PLEDGINGS

Alpha Sigma Phi announces the pledging of Ray Smith, F.P.E. '43 and Edward Mullen, M.E. '43. They helped to elect Bill Vizard pledge captain.

Rho Delta Rho pledged three new men last week. They were: Ivan Farkas, E.E. '42; Manny London, Ch.E. '42, and Bernard Sarasin, Ch. E. '42.

May we again remind the fraternity men that their cooperation is necessary if they wish to have their news in this column.

Don Knief.

SHADES OF



YESTERYEAR

Last week we said that there were about five social fraternities on Armour's campus at the present time. The fact is, there are eight social fraternities.

Up until 1913, all the departments except Fire Protection had organized clubs. On Nov. 11, 1913, a meeting of the Fire Proteets was called and organization was discussed and officers were elected to start off the new club.

History repeats itself. In 1912 the Armour Rooter's Association was organized. It boosted school spirit in all school activities; not only sports. Now Armour has the Pep club which is to promote student interest in all athletics.

A gay young stude from Quebec,
His thirst for gin fiz couldn't check,
He loved it so well
That now sad to tell,
The poor stude's a physical wreck.

Cycle—1915.

A club which was organized in the spring of 1913 was called the Polemics. Its purpose was to promote literary discussion, practice in public speaking, and parliamentary procedure.

In 1914 the "Honor A" society was founded at Armour. It was for athletes who won their major letter. These winners were automatically members, and that fact brought the fellows out and made them work harder for the honor.

In the spring of 1913 Armour's baseball team had a very successful season. Beating Northwestern and Chicago among the games played, they ended with a .900 percentage average.

For the season of 1914-15 Armour tied for second place in the basketball conference.

Track was started in 1912. And by 1914 they very easily placed second in their college conference.

Arx News

Merry Christmas

Extra! The A.A.S. will hold a meeting tomorrow, Wednesday at 7:00 P.M. in the Student Union Lounge . . . There will be an informal discussion lead by Professor Mies Van Der Rohe.

Can it be professional jealousy on Salzman's and "The Cock of the Walk," a Disney silly symphony character . . . What junior's fascination for electric trains leads him to spend his noon hours haunting toylands . . . We hear where Francis, you know the art school red head, gave her last cigarette to Denyes . . . How he does it, wonder . . . is it true a Saturday night at home has made Hutton doubtful again?

Ah, for the life of a band-leader . . . Andy, professionally Henry Carlson's Orchestra (plug), by dating seven gals on a Friday nite has proved his music hath charm . . . is it true that Sauermann will actually attend the senior informal . . . can it be that Monson and Goldsmith were seen with that certain art class girl . . . we bet Reinke didn't buy that fuzzy dog for himself,

Dickel's spare time is spent acting as a "super in opera's . . . his latest was Aida, where he handed the sword to the high-priest . . .

Haskarl will show his talent in the coming production "Brother Rat" . . . Congratulations to Dodge who tells us that its practically an engagement . . . A tentative date for the big day being set as July 19, 1941 . . . The day they met . . . Results of senior informal poster contest Biederman and Kulicke first . . . following came Cordes, Pehta, and O'Brien . . . Salz and the rest drew up in the rear . . . We wonder, if threats are carried out, if the posters will stay up . . . So, till after the Xmas layoff . . . happy New Year!

SPECS.

A farmer in a Chem. lab. strayed,
'Tis time but sad to tell—
He mixed some glycerine with NO²
And it blew the J-2-L.

Cycle—'18.

While Armour used to celebrate more holidays than it does now, we still celebrate Christmas; so a merry one to you, and a Happy 1940!

STEAM SHOVEL—

(Continued from page two)

"Giggles" Pelet's muffled voice (yes, boys, it's true) issued from the confines of one of the lockers in answer to the roll call. Imagine Professor Simpson's temptation to . . .

Some curiosity is being expressed lately as to whether that sweat shirt" Charley "Ziegfield" Schultz has been sporting around is a remnant of his last pair of long underwear or not.

Tsk! Tsk! Instructor Longtin mistook the library for his class room the other day. Result: Got "tossed out" by Miss Steele. Boys will be boys!

"Minnesota I hear you calling me" is Harold Martin's theme song these last days before Christmas. He can't wait to get home and see why his A-1 Donna, has failed to write him the last two days.

A revelation confronted the experts of the U. S. Air Corps last week when they discovered during their brief visit here that the swelling of its application file would, no doubt, have been much MORE noticeable AFTER the examinations.

Shrinking violet of last year's players, Hugo Geissler, has really opened up; in fact, it takes all the strength of Miss Turner's good right arm to keep him off. At last Friday's rehearsal of "Brother Rat," Miss Turner was supposed to grab Hugo . . . But . . . Hugo wanted to grab her. And . . . he did. WOO! WOO!

OTHER CAMPUSES—

(Continued from page two)

ment to put new life in the "Mauled Maroons." Rumer has it that the Big Ten will not schedule the Chicago teams for future games unless their competition becomes better. Other circles, however, see the projected move by U. C. as the beginning of professionalism in the Big Ten.

The little, dance-invading pooch of last week is rapidly building up a following. Two of his associates were observed in action recently when one was located in a medieval history lecture at Toronto University, and another had to be forcibly ejected from an economics class at the University of Alberta.

Last week, a powerhouse connection broke and plunged South Dakota State College into a surprise blackout, and when the lights went on, several students were found in the college cafeteria trying to fortify themselves against a bombing raid! What kind of men do they raise down there?

A live wire Harvard freshman snagged Betty (Coed) Grable for the Freshman Union Tea Dance. Considering the "Avahd" stags, there are doubts as to the number of dances he, himself, enjoyed.

Fire Investigator
Tells F.P.E.S. Men
About Pyromaniacs

Mr. McMillin of the National Board of Underwriters spoke before a recent F.P.E.S. meeting on Incendary Fires. The first organized action to take place against arson came directly after the Civil War when the fire record increased 100%. Today we have a group of investigators called special agents. Their primary job is to catch people setting fires and to save money for the Insurance company. Between 75 and 80 men are situated at strategic points throughout the country.

The crime of arson is motivated by various reasons. The most important fires are for insurance gain. Others are set for revenge and to cover another crime. A large number are set by pyromaniacs (people with an uncontrollable urge to set fires—usually sexual perverts). These fires are exceedingly dangerous to the public as a whole, as these people have no regard for life or property and are satisfying their desires. Mr. McMillin said that in a city of Chicago's size, there are always three or four pyromaniacs at work. In Illinois arson is punished by terms of from one to twenty years. Persons who in any possible way aid in setting the fire are equally liable, whether they are present or not near at the time. In some states attempted arson is not a crime. Mr. McMillin gave the example of one man they caught about to set a fire. In this particular instance the only charge they had against him was carrying gasoline in an un-approved container. Please note, however, that attempted arson is punishable in Illinois! Also in some states a man may burn his own house if it is not insured—which is also a crime in Illinois. Hundreds of ingenious devices have been invented and used in setting fires. However, Mr. McMillin could not be persuaded into describing these devices for obvious reasons.

CAMELS

(Left)
America's Number One Cigarette . . . Camels. This gay, new Christmas package contains 4 boxes of Camels in the "flat fifty" size. Dealers are featuring them now.

(Below) All Christmas-wrapped and ready to give—10 packs of "20's"—200 mild, cool Camels—the cigarette for giving!

PRINCE ALBERT

Season's Greetings

(Right)
Check the pipe-smokers on your list and count on Prince Albert—the world's most popular smoking tobacco. This attractive one-pound package of cooler-smoking Prince Albert is sure to please!

Camels

Prince Albert

There's no finer gift for those who smoke cigarettes than Camels. You can be sure your choice is wise—for more people enjoy Camels than any other brand. And when you give Camels you're giving the milder, cooler smoking of Camel's matchless blend of long-burning costlier tobaccos. Dealers are featuring Camels in a choice of two attractive gift packages—200 Camels in each. There's lots of cheer in smoking Camels—and in giving Camels!

If he smokes a pipe then he's bound to appreciate a gift of Prince Albert Smoking Tobacco—the largest-selling smoking tobacco in the world. Prince Albert is the famous cooler-smoking pipe tobacco that's made extra mild and extra tasty by special "crimp cut" and "no-bite" treatment. There's so much pleasure in giving Prince Albert because you know your gift will please. So, for pipe-smokers, this Christmas, give Prince Albert—the National Joy Smoke!

Gifts that are sure to please in beautiful Christmas wrappers

Copyright, 1939, R. J. Reynolds Tobacco Company, Winston-Salem, N. C.

CAGERS LOSE 50-36; PLAY DEKALB TODAY

Foresters Win After Fight; Techawks Seek First Victory at DeKalb; U. of C. Saturday

Scherer Leads Scorers Against Jay Birds

THREE PLAYERS EJECTED

Although the Techawk cagers gave the Jaybirds of Lake Forest a good fight in more ways than one, they were unable to stop the North Shore boys from winning 50-36. The score doesn't tell the true story of the game since up until the last two minutes, the Federalists were on even terms with the Foresters and had not the Armour defense gone off the floor with Bill Scherer, the Techawks might have triumphed.

Captain Scherer was ejected from the game by the officials after he responded to a display of poor sportsmanship by the Forester five. A Forester player struck Bill from behind and when Bill retaliated another Jaybird hit him, cutting his eye just above the cheekbone. A free for all resulted which was subsided only when Scherer of Armour, and Rhine and a reserve player of Lake Forest were removed from the game. A few minutes later McKenna of Lake Forest tried to start another fight but was ejected by the officials before any swinging started.

Green Team Starts

At the start of the game, it was found that several Armour players hadn't arrived so Coach Stenger was forced to start a quintet that had never played together. Scherer, Norkus, Sher, Schmidt, and Fahey composed the opening lineup. Quick baskets by Norkus and Scherer offset buckets by McKenna and Rhine but a free throw by the latter put Lake Forest ahead. Norkus tallied again, followed by Scherer to give the Federalists a lead.

Lake Forest then began to pop them from far out with McKenna causing the most damage with Rhine's rebounding also adding points. At the half, the score was tied, 18-18.

Harrison Cuts Loose

In the second half, the cagers held the Foresters again until "Pretty Boy" Harrison, supposed high point man on the North Side five, got away on a fast break to score his first basket of the evening.

Armour (36)				Lake Forest (50)			
Sher	B	F	P	Harrison	B	F	P
Sher	2	0	4	Nicholson	0	2	1
Sliva	3	0	1	Gater	3	4	0
Schmidt	1	1	3	Disinger	2	0	0
Lurz	0	0	1	Rhine	4	4	3
Norkus	3	0	3	Boehm	1	2	0
O'Connor	1	0	0	McKenna	5	3	4
Fahey	0	3	3	Patterson	0	1	0
Scherer	3	5	0	Petersen	1	0	1
Bart-Smith	0	0	0				
Futterer	0	0	0				
13 10 15				17 16 12			

Boxing Squad To Go To Valparaiso Meet

Boxing activities will soon be under way, with the opening show being a home-and-home meet against Valparaiso. The Indiana school will first fight our boys at Armour in the early part of January and the squads have scheduled a return meeting for the later section of the same month.

Coach Sonny Weissman has been conditioning the team and has promised to enter a few in the Golden Gloves competition to be staged during January and February. Sonny also announced later meets arranged with Loyola and Armour Square.

Returning to the team from last year's competition are Captain Ernie Colant, 125 pounds; Walter Collins, 142 pounds; Jerry De Giorgi, 128 pounds; Harold Kruse, 135 pounds; Roman Mankus, 160 pounds; Harry Peterman, 155 pounds and Roy Erickson, 143 pounds.

Other promising men cited by Coach Weissman are Obergfell, Kasman, Simpson, Strauss, Pollack, Watson, Healy, Sullivan and Niems. The turnout has been good but the squad is lacking in well-balanced distribution in the various weight divisions. Too many men have reported for the same weights and it has been difficult to provide competition in other classifications.

The wrestling squad will grapple with Wheaton this afternoon in our gymnasium.

Teachers Seek Revenge for Last Year

MAROONS NEXT FOE

Tonight the local hoop shooters will invade the basketball conscious town of DeKalb to take on the strong Normal five. Playing for DeKalb will be four juniors and one senior. With almost this same combination Normal ended up in third place in the North Section of the Little Nineteen conference.

A man that the Techawks will have to guard closely is a lad by the name of Price. This ace played havoc with his opponents last year, and ended up as high scorer in the conference. Along with Price is his twin Young. Young copped third place honors for points made in the conference race. Between these two Scherer and Sliva will have a hard night of guarding. Coach Stenger will probably start the same five that he lead into the Lake Forest foray. This means that Rudakas will be at center, Norkus and O'Connor at forwards, and captain Scherer and Sliva at guards. Other members sure to make the trip are Sher, Schmidt, Jones, Lurz, Fahey, Sieg, Barrett-Smith, and Manager Lasker.

Armour's cagers are looking forward to their annual battle with the mighty Maroon five of the University of Chicago to be played at the Midway on or about December 16. Last year the Techawks lost to their south-side neighbors by the score of 48-11, and in spite of the overwhelming advantage of the U. of C.'s height, the Tech quintet can be expected to put up a fighting battle all the way, in this season's contest.

Chicago is led by Lounsbury and Richardson who tower up to about six-feet, four-inches whereas the remainder of the regular squad averages about 6 feet 2 inches. Our Techawks can hardly bring the average quintet height to six feet.

Coach Stenger will probably start the same five which has performed well in the past contests. Captain Scherer will direct the boys against the Maroons.

Swimmers To Beloit Dec. 16

After two months of ardent practice, the Tech swimming team will open its season this Saturday afternoon, Dec. 16, against Beloit in the Wisconsin school's pool. The team will be led by co-captains Earl Anderson and Warren Hutchings, free styler and breast stroker respectively.

When the mermen invade Beloit, it will be the hope that they can start the season off big. Last year the squad ended the year with seven wins and five losses. This year the tanksters have definite ideas for a perfect season. But Beloit has plans to the contrary. Last year Armour's future host won the conference crown in swimming. This year Beloit promises to have another strong team, although only a handful of lettermen are returning.

Eleven men are slated to make Saturday's northern trek. These are to be selected from the host that turned out for the time trials. Most likely to make the trip are: co-captains Anderson and Hutchings, Bell, Rademacher, Talcott, Pearson, Dodge, Powers, Blume, Huxhold, Hawrysh, Malmquist, Blumberg, and Stowell. However, because of conflicting work, several of these will be forced to miss this meet. This means that only one diver, Power, will compete in that event. In the other events there will be full strength.

This is the second time in as many weeks that an A.I.T. team has opened their season with Beloit as the opponent. The basketball squad was the first team to mix with Beloit, and suffered a defeat. This Saturday the Tech mermen will be splashing away endeavoring to reverse the score, and present Armour with a win over Beloit.

Arkansas State Proves Too Tough

TILLEY SCORES 28

Inability to stop a young Razor-back named Tiler caused the second defeat of the year for the Armour cagers as they were downed 56-39 by a fast although inexperienced Arkansas State quintet. The thirty-nine points scored by Armour represents the second highest total they have reached in two years. Last year they accumulated 45 points against Lake Forest.

Due to the good will of the Armour team, the boys from the Southland were allowed to start their regular team instead of having to bench their freshmen. At the offset the Techawks jumped into a lead as Norkus counted a bucket and Scherer two while Arkansas tallied a basket and two free throws.

Lead Goes Back and Forth

The lead bounced back and forth until two minutes to go in the first half when the Razorbacks jumped the score from 23-21 to 28-21. In the first half Tiler made six baskets. His method of playing sleeper continually for a fast break not only helped his own team's offense but broke up the Techawk offense as they were afraid to leave him in the backcourt.

In the second half, Armour tried desperately to rally but they could never come within seven points of the opposition. Norkus led the Armour scoring but Herb Sher's passing and floor playing made him the Techawk's outstanding player.

While the Techawks came up to the Arkansas boys in scoring baskets they couldn't approach them in free throws. Receiving ten free tosses, the Statemen counted on all but two while Armour men took twenty-three and made seven. It was this that beat the Techawks in the end.

Armour (39)				Arkansas (56)			
Sher	B	F	P	Tiler	B	F	P
Sher	1	3	2	Pharis	2	0	1
O'Connor	2	0	0	Oment	4	2	1
Schmidt	1	1	0	Parker	0	1	1
Norkus	5	2	2	P. Settlemyre	0	0	1
Rudakas	2	0	1	Metzler	0	0	1
Sliva	1	0	3	Fischer	1	0	0
Fahey	0	0	0	Keller	0	0	2
Scherer	4	1	0	D. Settlemyre	1	0	1
Sieg	0	0	0	Leiter	1	1	1
Bart-Smith	0	0	0	Bolton	1	1	1
Lurz	0	0	0				
16 7 8				24 8 15			



By Jim Fahey

THIS AFTERNOON AT THREE O'CLOCK, THE BASKETBALL TEAM WILL LEAVE FOR DEKALB, AND AT FOUR, THE WRESTLERS WILL MEET WHEATON IN THE GYM. LET'S GIVE THE CAGERS A BIG SENDOFF AND THEN GO UP AND WATCH THE WRESTLERS GO TO TOWN. COME ON GANG—SHOW YOUR SPIRIT.

It was really a pleasure to see that turnout at the Arkansas game. It was probably the largest an Armour team has ever seen and it surely made the boys feel good.

MERRY

There never was as broken-hearted a group of players as the Techawks when they couldn't come through for that crowd but they say "Be there when we play Lake Forest again and we will win for you."

CHRISTMAS

The Chicago game this Saturday. Techawks are admitted on their athletic passes which may be obtained from the Treasurer's office. Be there.

TO ALL OF YOU

Did you hear "Biff" Doolittle swinging the school song a la Louis Armstrong. He was as hot as Tiler.

FROM ALL OF US

It looks as if the cagers could use plenty of practice on free throws. Thus far they have missed 33 out of 59 or an efficiency of 44.1% whereas it should be about 82.1%.

AND A

A study shows:

Player	Free Throws	Missed
Sher	8	3
O'Connor	1	1
Norkus	9	3
Sliva	1	0
Scherer	12	7
Schmidt	11	3
Rudakas	5	4
Fahey	5	3
Lurz	3	1
Seig	1	0
Jones	3	1
59		26

VERY HAPPY

Johnny Rudakas was too sick to make the Lake Forest trip and his height under the basket was sadly missed.

NEW YEAR

Why can't some of the faculty members attend the games? Aren't they interested?

Wrestlers Have Easy Time With Herzl; Face Wheaton Here Today

Seeking Revenge Against Ministers For 1938

Intramural Next Year

This afternoon in the Techawk gym the grunt and groan men of Armour will seek their second straight victory and their obstacle will be that perennial blockade, the Wheaton Ministers.

Leading the Ministers will be that fighting, battling Shiroma, winner of last year's Wheaton Invitational and one of the very few men to beat George Till during the year. This year he'll meet the new Armour 126 pounder, Waslenko, who has ousted Till from the job.

Siew Out

Another star of the West Sider's lineup will be Captain Batt, who will oppose Captain Hanna of the Techawk squad.

Due to an injury Siew, the diminutive Londres, will be unable to compete. Showing off before some of the boys, he tried a new hold which caused a separation of the muscles in his shoulder. This injury is similar to that suffered by Bill Scherer, basketball captain. Who will replace Siew is problematical but the rest of the lineup will be 126—Waslenko, 135—Harrison, 145—Hanna, 155—Nigrelli, 165—Kazmierowicz, 175—Hurwitz, and heavy—Balsewick.

Intramural Next Year

Final preparations have been completed for the annual intramural boxing and wrestling tournament to be held following the Christmas holidays. "Sonny" Weissmann and Intramural Manager Frank Opila have arranged a new plan which promises to bring forth real competition.

Each class may enter 14 men in the tourney; seven men to compete in wrestling and seven men in boxing. In both wrestling and in boxing, there will be seven classes to fight in. Ranging from 125 pounds to 175 lbs. in ten pound intervals, there will be six divisions topped off by a heavyweight class. Boxing will consist of three rounds of two minutes each to a decision. The wrestling will comprise six minute bouts to a decision or a fall. Team prizes and individual prizes will be awarded at the end of the tourney.

There will be Freshmen, Sophomore, Junior, and Senior teams; and the coops are also invited to enter a team. Each class should hand in a list this week to either Opila or Weissman, stating the members of the team, the weights at which they will fight, and the type of fighting. These lists should be handed in as soon as possible so that the tourney may get under way.

Senior Cagers Whip Juniors in Interclass

Opening the intra-mural basketball tourney with a bang, the Senior five soundly trounced the Juniors 34-15 last Thursday in Armour's gym. Frank Leonard and Ken Oldenburg each sunk four baskets to lead the Senior quintet's attack. Henry Heidenreich was the high man in the Junior offense, scoring two buckets in the last half as the losers tried a futile rally. The score at the half was 22-7.

Only six men played for the winners, whereas the losers threw in nine cagers before the final whistle.

This afternoon at three-thirty, the sophomores will battle the freshman five for the lower-class supremacy, the winner meeting the Senior Squad in a championship game to be played Thursday at three-thirty.

All teams are composed of class members, excluding any lettermen. Freshman numeral winners are counted as lettermen in this classification.

Seniors				Juniors			
Holle	G	F	P	Wessel	B	F	P
Leonard	1	0	0	Heidenreich	2	0	0
Natinschek	0	0	0	Dism	0	0	0
Sullivan	3	1	2	Matthews	0	0	0
Eggers	1	1	0	Lange	1	0	0
Oldenburg	4	0	1	Shanley	1	1	2
				Brown	1	0	1
				Krause	1	0	1
				Bunce	1	0	1
Totals 16 2 3				Totals 7 1 4			

Four Falls, Three Decisions Head 29-3 Victory

New Men Triumph

Armour's matmen knocked over Herzl Junior College last Tuesday night in the Armour gym to win their initial meet of the season by a score of 29-3. By winning seven out of the eight bouts on four pins and three decisions, the Techawks clearly showed their superiority.

Salerno and Siew started things off at 121 and fought an even fight. Siew came close to pins several times, but Salerno was too elusive. Siew finally won in overtime with a time advantage of 1:30 to give Armour a three point lead.

Pollack of Herzl evened things up at 126 with a time advantage of 5:30 over Waslenko. Pollack tried vainly for a pin, but Waslenko managed to break every good hold. Harrison, at 135, added five points for the Techs when he pinned Lee in 4:30.

Captain George Hanna came on at this point and, wrestling at 121 gained a decision over Moore with a time advantage of 5:00. Hanna almost had his man pinned several times, but had to be content with a decision. Nigrelli, 155, of Armour, added another five points to his team's total with a pin over Ellis in the short time of 2:30. Kazmierowicz, wrestling at 165, finally gained a decision over Bahaty of Herzl with a time advantage of 1:41. At 175, Hurwitz chalked up five more points when he finally pinned Gams in 7:10. Balsewick, in the heavyweight class, increased Armour's total to 29 points when he pinned Lustig in 7:13 after a stiff battle.

The two final bouts were exhibitions with Cole of Armour and Legal of Herzl fighting to draw in the 118 pound class. Golden of Armour could do no better with Stanley at 126 and had to be content with another draw.

Summary:

121 lbs.—Siew (A) over Salerno (H). Time advantage 1:30.

126 lbs.—Pollack (H) over Waslenko (A). Time advantage 5:30.

135 lbs.—Harrison (A) over Lee (H). Fall 4:30.

145 lbs.—Hanna (A) over Moore (H). Time advantage 4:30.

155 lbs.—Nigrelli (A) over Ellis (H). Fall 2:30.

165 lbs.—Kazmierowicz (A) over Bahaty (H). Time advantage 1:41.

175 lbs.—Hurwitz (A) over Gams (H). Fall 7:10.

Heavyweight—Balsewick (A) over Lustig (H). Fall 7:13.

Indoor Trackmen Ready For Start of Schedule

Prospective candidates for the track team met in a meeting last Thursday afternoon held in Room 202 in the Main Building. Although the turnout was small, the possibilities of the candidates were praised by Coach Norman Root, and it is hoped that a well rounded team can be developed.

Manager Ralph Erisman will give out equipment this week in the gymnasium. Most probably the first event to be run by the squad will be an inter-class meet late in January. The squad will work out in the University of Chicago Fieldhouse during the indoor-track season.

The Tech News will soon publish a schedule of tentative track which will probably include the Wheaton Invitational and the Midwest Relays among the traveling engagements.

8:00 P.M.—Saturday Nite—Jan. 6, 1940

THE SHOW OF SHOWS!

SMASH HIT OF STAGE AND SCREEN!

"BROTHER RAT"

Directed by Charles H. Schultz

- with ☆ DOROTHY KENNEDY
- ☆ LORETTO TURNER
- ☆ FRANCES MALLOY
- ☆ THE ARMOUR PLAYERS

AND—

Three Solid Hours of Dancing to the Rhythms of Don Charlton's Orchestra!

All Tickets 50c—sold by any member of The Armour Players
See or call B. R. Sternfeld (Ked. 2948) for Special Blocks of Tickets

CHRISTMAS CONCERT—

(Continued from page one)
Glee Club and Orchestra
Alma Mater

It is requested that all make a special effort to be seated in the Auditorium at 10:10 sharp, so that the program may be completed in its allotted time, and in order that the trampling feet of late comers will not be a cause of disturbance.

Sing Cruiser Song

The concluding number on the program, "Roll Cruiser Roll", was composed by Mr. Erickson for the dedication of the Snow Cruiser in Grant Park. Unforeseen difficulties, however, caused cancellation of the dedication, thus making the concert the occasion of the song's debut. The cruiser song, incidentally, has been made famous by the Pi Nu Epsilon pledging activities. The Musical honor society required that each of its pledges carry a music stand around the campus upon which was a hand copied reproduction of the song with the title inscribed in large letters. The printed programs which will be handed out before the program will contain the words of the carols in which the audience will join.

Art Institute Tomorrow

On Wednesday, the musical clubs will present a program in the Art Institute at 12 o'clock noon, before the public in attendance that day. The boys of the musical clubs will be dismissed from class at 11 o'clock. After the concert, which lasts one hour, they will be the luncheon guests of the Art Institute at the Art Institute restaurant.

U.S. Is Training Thirty Techawks In Flight Classes

Through the help of the Civil Aeronautics Authority, the high-flying Armour Techawk has recently acquired thirty new pairs of wings, for the students in the Civilian Flight Training Program are well on their way towards becoming licensed private pilots.

50 Hours Flying

Armour's portion of the approximately 11,000 civilian pilots have already mastered the necessary theory of flight, civil air regulations, and air navigation courses required, and are now engaged in studying meteorology. These, and similar classes, will consume a total of 72 hours. Ground school classes, taught by Professors Wells and Penn, meet every day from Monday through Friday on the campus. Commercial flight instructors, approved by the C.A.A., give 50 hours of flight training at the Ford airport in Lansing, Illinois. Although there is a shortage of instructors, Smilin' Jack in the comics, and six aviators in real life, underwent the government tests last week. In spite of the shortage, every student has been in the air several times.

"You Take Her"

E. L. Hass, a fledgling member of the program, tells of the unanimous interest of the entire group in the instruction, and relates a few of his experiences. The very first time he was in the air, Hass expected to sit back and admire the scenery while the instructor flew the plane. Suddenly, the instructor turned the controls over to dumbfounded Hass, and said, "Here, you take her". In his astonishment, the junior "Fire Protec" almost made Adam's apple sauce out of his larynx, but managed to guide the plane. Another, more serious difficulty encountered, was his inability to talk back to the instructor, due to the omission of a microphone from the student's equipment. Thus, the instructor talks to the student, but the student can't utter an audible sound over the motor's roar. In spite of this handicap, Hass believes he and his 29 Armour "birds of a feather" are taking advantage of a wonderful opportunity, as well as realizing a universal boyhood desire to become an aviator.

Armour Institute is on the very first list of schools selected, because of its qualifications. With the idea of stimulating private flying in this country as a means of promoting commerce and contributing to the progress of aviation, the government, through the authority of the Civilian Pilot Training Program, is providing a free civilian pilot training course in 355 colleges throughout the United States.



Photograph of the Musical Clubs consisting of Glee Club and Orchestra under the direction of O. Gordon Erickson, taken at last year's concert at the Goodman Theater.

Heald Addresses Chi Epsilon at Initiation

Chi Epsilon, national honorary civil engineering fraternity, formally initiated one senior George Olufsen and two juniors, LeRoy Goetz and Roy Jacobsen, last Wednesday evening. The initiation and the banquet which followed were held in the Chicago Room of the Central Y.M.C.A. Present for the occasion were President H. T. Heald and Professors P. C. Huntly, J. C. Penn, and R. L. Stevens.

Heald Speaks

After the ceremonies and the banquet President Heald spoke to the members and guests on the vital topic, "Is Engineering a Profession." During the course of his discussion, he pointed out the various problems facing the engineer and his professional status and the steps being taken to solve them. At present a commission has been formed in Washington to lobby in the interests of engineers in general. It is by activities such as these that members of the engineering profession can cultivate an improved public opinion.

At the close of the formal part of the evening's activities, the group adjourned to a loop theater, where they witnessed the latest Hollywood thriller, "The Tower of London."

Amplifier Story in "Electronics" Issue

Description of a new type of amplifier, perfected in Armour's radio engineering laboratory by Professor A. W. Sear, will appear in an early issue of "Electronics." Prof. Sear is an authority in the field of radio, and has been active in this field for many years.

No Galvanometers

This instrument, when used in conjunction with a low sensitivity meter, will detect D.C. potential differences of about 0.0000005 volt. Measurements of such low voltages have formerly been made with suspension galvanometers of extremely fragile construction. Such galvanometers, besides being expensive, were quite clumsy, requiring vibrationless mounting and an observing telescope. Indications were slow and necessitated a great deal of manipulative skill.

Overcomes Instability

While the use of vacuum tubes for amplifying small A.C. voltages has been highly developed, attempts at D.C. voltage amplification have not been very successful because of instability in tube characteristics. Professor Sear uses a special method for overcoming this difficulty; the voltage to be measured does not control the tubes directly, but is used to set up transients which are amplified, and rectified mechanically. By this means it is possible to read the D.C. polarity. The effect of "drift" in tube constants is negligible.

The apparatus, as developed, is capable of being made completely portable. It is rugged, inexpensive, and easy to operate. Its quick response makes it especially suitable for thermal E.M.F. measurements. Other applications are as balance indicators for D.C. bridges and potentiometers. With suitable changes, the device can also be used for control work.

**Wanted
PETTY PORTFOLIO**
Published by Esquire
See R. B. Maxwell
Senior F. P. E.

S.A.M. Speaker Praises Labor

Mr. Harry Scheck, a member of the Conciliatory Service of the Department of Labor, spoke to the second meeting of the Society for the Advancement of Management, on the subject of "The Function of the Service in the Settlement of Labor Disputes." He said that there were two things that caused practically insurmountable barriers in the settlement of these controversies, and they were the newspapers and attorneys.

Hindrance by Lawyers

In the case of the newspapers, the desire for sensational material causes them to play up the emotional side of the case. The hindrance caused by attorneys is mainly in the minute analysis and word discrimination in the case of contracts and agreements. As far as this board of men is concerned, it is the spirit and not the letter of the law that should be binding. In the event that either or both of these groups can be prevented from becoming involved in the case, a definite and equitable solution can be reached in a very short time. For this reason the Conciliatory Service has never received nor encouraged publication of their activities.

Wagner Act Passage

According to Mr. Scheck, the Wagner Act would never have been passed because of labor alone, but was brought about by the unscrupulous acts of managers and men immediately superior to the employees. These acts of discrimination are now indirectly punishable by the National Labor Relations Board and this group cannot only force the re-employment of the fired men but also fix the extent of damages caused by this unemployment. Conciliatory Service is no part of this organization.

No Closed Shop

In the opinion of either the manager or the labor unions, their can be no such thing as a closed shop. The choice of joining either a company or a labor union is entirely up to the man, and both groups are open to American citizens. But the unfair practices used in the past to influence this decision have occasioned the government's policy.



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Profs. Cleveland And Copeland Talk To Physics Society

The Physics Department of Armour Institute was well represented at the quarterly meeting of the American Physical Society by Drs. P. L. Copeland and F. F. Cleveland. Dr. Copeland presented a paper on "The Anode Effect as a Function of Temperature," a subject which has held his attention for some time. Dr. Cleveland's paper, "Depolarization Factors of the Raman Lines of Some Derivatives of Phenylacetylene," was organized in collaboration with Dr. M. J. Murray of the Department of Chemistry.

Charging Surface Lowered

After extensive research with vacuum tubes, Dr. Copeland found that as heat is applied to the anode, the magnitude of its charging surface is decreased. This is due to the inability of the particles to penetrate the layer of oxygen and nickel which surround the anode as the temperature increases. This explains why the amplification factor of a tube falls as the temperature is increased. Dr. Copeland's activity in this phase of physical research has attracted the attention of R.C.A. tube experts. These men have expressed their desire of having the subject delved into even more deeply, by Dr. Copeland, as an aid in the design of more efficient vacuum tubes.

Molecular Activities

The paper delivered by Dr. Cleveland is of as great importance in the field of chemistry as it is in the field of physics. In his affiliation with Dr. Murray, he has devised a method for investigating more thoroughly the molecular activity of solutions. By photographing the spectrum of a beam of light, from a mercury lamp, which has passed through a filter and thence through a solution of the material in question, a great deal about the molecular nature of the substance can be determined. On allowing the beam to pass through a sheet of polaroid, this same apparatus will give the depolarization factor of the substance. In their work, Drs. Cleveland and Murray have used phenylacetylene and eleven of its derivatives. They will now study the solutions of various other substances with the same apparatus.

Senior Mechs To Test Engine

Senior mechanical students have their Christmas vacation all planned out for them as a result of the annual boiler efficiency tests, and the tests on the Corliss engine, being run this week. Long hours of calculations await their eager efforts (eager, my eye) and the long awaited holiday will find them in mech lab pouring over Hirn's analysis, combined indicator cards, and the mechanical and thermal efficiency problems.

Runs Once a Year

The machine which will be used in these tests is one of the more interesting pieces of apparatus to be found in the school, that big green Corliss in the west side of the steam lab. Only for one week each year does this engine turn its wheels. For all the rest of the time it is greased up and let stand until the next class rolls around.

10 Per Cent Efficiency

Although of moderate power, about fifty actual horse power, the Corliss is one of the biggest engines in the entire steam lab. It is a bit of irony that right next to this mass of metal stands a small turbine, but one whose output is more, by five horsepower, than the great Corliss. Efficiencies of the Great Green Monster run in the neighborhood of 85% mechanical and 10% thermal.

Performance Standard

While 10% may seem to be a pitifully small amount of the available energy, the Corliss is one of the most efficient of all the steam engines that have been constructed. Operating under a good vacuum, with its excellent method of valve control, the Corliss has been a standard of performance for all steam engines of the reciprocating type for many years.

Special Engine

Practically the entire engine is of a special design, intended for experimental purposes. A special heavy frame and steam jacketed cylinders are features. Built by Allis-Chalmers shortly after the turn of the century, this one engine represents an investment of about \$7,000, and if one went to buy a similar piece at the present time it would cost about \$15,000. Most of the parts are made by hand and require much fitting, and cutting. The finest workmanship goes into the making of the valves because they are the key to the operation of the entire machine. Involving several push rods and a maze of rocker arms, a set of dash-pots, and accessories the valves are a lasting tribute to the man who invented this method of handling the steam and whose name the engine bears.

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SENIOR DANCE

Featuring

ANSON WEEKS and Band

Main Ballroom of the Lake Shore Athletic Club

Private Entrance on Chestnut St.

Free Parking

Bids — \$1.50

(See Any Senior)

Approval Given Student Union Table Purchase

Several interesting developments have taken place in the Student Union recently. The Board of the A. T. S. A. has approved the purchase of two ping pong tables for the use of the student body. When the tables arrive, which should be during the Christmas vacation, they will be placed in room 2-E of the Union. As yet definite arrangements for the use of balls or paddles have not been made but provisions will be made that they will be available for use by the students. In addition Mr. Weissman has announced the purchase of twenty phonograph records by the American Society of Civil Engineers. This group of records together with those already owned by the Union forms a complete library of popular and semi-classical music.

Placing a box in the lobby of the Student Union is another action approved by the Board of the Student Union. This box is for the use of the Armour Tech News. All contributions, voices of the student and similar matter should be placed in this box.

Conduct Slipping

Several complaints have been made recently as to the conduct of some of the students in the Union. A great many students seem to think that the lounge is a place where naps can be taken to make up for the sleep they had missed the night before. Great carelessness is also shown in the use of the furniture. Banging chairs around is going to make their life so much shorter, and a corresponding worn look will make the lounge that much less inviting. The lack of consideration of some students in occupying seats in the lunchroom during the lunch hours is another sore spot. If the students left as soon as they had finished their lunches, the confusion and crowding prevalent at the present time would be eliminated almost entirely.

NEW FOUNDRY—

(Continued from page one)
able with the sand mold method of casting. The tensile strength of a gray iron casting obtained by the new method is about 40,000 pounds per square inch as compared with 25,000 pounds per square inch obtained by the present method. The greater smoothness of surface of the counter-gravity die-casting requires much less machining, permits casting to finer limits, and makes possible direct casting about bearing surfaces, and a variety of short-cuts never before attainable.

Since the Research Foundation of Armour Institute of Technology is affiliated with the Illinois Institute of Technology, recently formed by the merger of Armour Institute of Technology and Lewis Institute, the experimental foundry will be housed in a new brick and steel building to be located at 34th and Federal Streets on the Armour Institute of Technology campus. This, however, will be only a temporary location until such time when a permanent campus is selected for the new Illinois Institute of Technology. The consolidation will give to Chicago one of the largest and best equipped technological institutions in the United States, bringing together two institutions with combined experience of almost 100 years in engineering education and service to industry.

The new foundry will be completely equipped with furnaces, pressure pots, core ovens, and all other foundry facilities. Approximately five members of the staff of the Research Foundation of Armour Institute of Technology will be engaged in this project.



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to promote good physical condition.

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THE MILK FOUNDATION—CHICAGO

"Concrete" Subject of W.S.E. Meeting

Tuesday evening at seven o'clock, all Armour students are invited to attend a meeting of the Western Society of Engineering, on the practical details of using concrete in structures. The meeting will be held in the society's rooms on the twelfth floor of the Engineers Building, 205 West Wacker Drive. Because of the current interest in the subject and the practical nature of the lecture, in addition to the fact that all Armour students are members of the Society, it is expected that the turnout will be large.

The speaker, Mr. H. E. Shudde, is the construction superintendent of the Portland Cement Association. The title of his talk is the "Practical Details of Forming and Placing Concrete in Structures." Mr. Shudde was a construction superintendent in California for many years before coming to Chicago. That part of the country has pioneered in the use of concrete for all sorts of fine structures. Since coming to Chicago, he has been traveling constantly through several mid-western states, giving assistance to contractors and engineers who are building architectural concrete jobs. His discussion will be wholly practical and non-technical and he will use lantern slides to illustrate the important details of the lecture.

There has been rapid increase in the number of structures having fine exterior surfaces of concrete. Much attention is being given to the architectural design of concrete bridges and viaducts, also to retaining walls such as that on the railway grade

Sphinx Pledges Four; All Tech News Men

Four men were pledged to Sphinx last evening at ceremonies held in the Armour Tech News Offices. The men honored were Irvin Dzikowski, desk editor of the News; Art Hansen, feature editor; John Kucera, re-write man, and Peter Woods, head of the re-write department. The last two men are senior co-ops.

Pledge duties will consist of carrying a copy of last year's *Cycle*, the latest issue of the *Armour Engineer* and the current copy of the *Armour Tech News*, in addition to writing a theme about some phase of journalism. Formal initiation ceremonies will be held after the Christmas holidays.

Sphinx is the oldest honorary on the Armour Campus. Founded in 1907 it has led student activities in the literary field, playing a large part in the establishing of the *Tech News* and the present arrangements of the *Cycle*.

separation project through Winnetka. Another important development is the use of architectural concrete for the entire exterior of buildings such as the new retail store building for Sears, Roebuck & Co., at Irving Park Blvd. and Cicero Avenue in Chicago, the Community Auditorium and High School Gymnasium at Belvidere, Ill., and the new school buildings at Joliet and Effingham, Ill.

The excellence of the concrete surfaces on these various structures requires new technique in forming, in the concrete aggregates, and in the methods of placing concrete. The old hit-or-miss methods of proportioning, forming, and placing, are wholly inadequate for such jobs.

Civils Visit Evanston Water Filtration Plant

Civils of the senior class are going on the third of a series of inspection trips this morning. This series is carried on in connection with their course in water supply engineering. An attempt is being made by Doctor Eliassen to cover every type of water supply equipment in the vicinity of Chicago.

This morning's trip is being made to Evanston's filtration plant. Other trips made by the group include the recently completed plant in Hammond. This location coupled with the fact that the water supply is drawn from a greatly polluted lake offers problems that are unique in the water supply engineering field. If the wind shifts at any time a different source of pollution comes into effect.

Mechanics Symposium To Hear Lecture By Dr. Hans Reissner

Dr. Hans Reissner, noted authority upon aeronautical engineering matters will address the Mechanics Colloquium this morning at ten o'clock, as announced on the North bulletin board, in the lobby of Main.

At present Dr. Reissner is engaged in work on the stability of thin shelled structures, constant speed propellers of the self-operating type, and vortex theory of propeller design. With his excellent mathematical background, Dr. Reissner has gained the admiration of all his mechanical students who are taking aeronautics. Today's talk should be of interest and value to any and all who intend to devote any time to these subjects.

Interhonorary Frat Council Meeting to Be Held on Friday

The interhonorary fraternity council is planning to hold a meeting this Friday at 5 o'clock in room 2-W in the Student Union. At this time plans for the banquet which will be held sometime in the middle of January will be discussed.

Tentative plans at the present time call for the holding of the banquet at the Adventurer's Club. The setting of wild animal trophies coupled with the food of undoubted quality furnishes a setting that should prove attractive for all of the members of the honoraries on the campus.

Attempts are being made to secure a speaker who will prove interesting and at the same time be able to give an instructive talk on some phase of engineering.

CO-OP NEWS

By H. F. Krantz

Just to prove that the co-ops are superior students, Instructor Alex Cowie burst into a group of 4A men preparing for Marin's structural final. "Now boys, he said, 'there's a class downstairs. You don't want to live up to your reputation all the time!'"—But nobody heard him, too much uproar.

The story of the week is the co-op's prank on Professor "Brother" Winston. Led by Walter "Fat Stuff" Meyers, and with Frank "Dreamy Eyes" Heidenreich, as decoy, the entire class trooped into the room, Indian fashion, minutes late, each man depositing a shining Jonathan on the worthy's desk and executing a deep bow before taking his seat. For once in his life Armour's "Human Engineer" was struck speechless.

Information acquired from our representatives at large

has it that Andy Blaida, a shy retiring fellow at school, is known by such aliases as the "Don Juan of Danley's" in the outer world for his smooth methods. We are told to expect a New Year's wedding on the stage of the Rialto.

One of the members is noted for his pugilistic accomplishments, according to Lawrence "Schleperman" Schoeffman. "So I feints with my left and gives him such a terrific right to the button, he never knows what hit him."

Last Friday marked a milestone in the program of the co-op classes. The 4-A class will henceforth be known as the 5-A and members are now jubilantly addressing each other as seniors, with only 24 weeks of school left. However, these men are at present at work at their various jobs and will not decorate the Armour Campus again until the first of February.

Thanks for contributions to this column last semester are due to Frank Grote, 3A; Vic Schellschmidt, 2A; and Robert Schneider, 2A.

Ann Sheridan
STARRED IN "YEARS WITHOUT DAYS"
A Warner Bros. Picture
does her Christmas shopping early.

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