Armour Tech News

Vol. XX. No. 8. Armour Institute of Technology, Chicago, Illinois Tuesday, November 9, 1937

Joint Assembly Meets Success

Over 800 Hear Dr. Thomas Describe Electrical Phenomena

By W. Laube

In a joint assembly of day and night students last Saturday, Dr. Phillips Thomas of the Westinghouse research laboratories gave an enlightening demonstration on "Adventures in Electricity." This was the first of a series of assemblies whose purpose is to further fellowship between day and night divisions.

By 2:30 the Assembly Hall had been prepared for the occasion with a public address system and a demonstration table on stage, full of conglomerate apparatus. The hall was almost filled as the speaker was introduced.

Describes New Air Filter

"The up and coming generation is a peach of a set of people," he said, "but problems are coming up with them." Solving these problems in the laboratories has resulted in this apparatus.

Mechanical air filters may remove 90 per cent of all air impurities, but the harm done is done by the other 10 per cent. Filtering by the Cottrell process (precipitation of all impurities to a grounded plate after charging them to 100,000 volts) removes almost 100 per cent of the impurities, but is too massive for practical use. The new filter works on the same principal, but here the air is forced between alternate grounded and charged plates, which are much closer. This arrangement solves all the difficulties at once, and increases its efficiency as well.

Shows Marvel Magnet

A new alloy of aluminum, nickel, and iron was discovered by accident in Europe. It proved to be as brittle as glass, and pieces retained almost 100 per cent flux density permanently when magnetized. A sample one pound magnet which lifted over 20 pounds was shown. A stroboscope was demonstrated, which revealed a rythmic design in splashing water. A photoelectric relay was also shown.

An Ignitron tube, by which enormous alternating currents can be accurately controlled, was demonstrated in a new use. A condenser discharging through the tube causes a brilliant flash which lasts for one-millionth of a second. If a wire, connected so as to prevent the discharge, is broken by a swiftly moving object, the flash will come quickly enough to see it, even though it might be as fast as a bullet. This was demonstrated with a rubber ball shot from a carbon dioxide gun.

Secretaries of student fraternities, clubs, classes, and other organizations are requested to call at the Registrar's office for letters addressed to them by Associate Dean Tibbals. Information about the various school organizations is being collected.

Players to Present One-Act Play Nov. 19

For their annual fall production, the Armour Players will present "Where the Cross is Made", a one act play by Eugene O'Neill, in the Mission auditorium at 10:30 Friday, Nov. 19.

Scenery and properties will be in charge of members of the Armour Players, and with the exception of one, all members of the cast are Armourites. Mary Russo, who is appearing in a current Hull House production, has the feminine role. Students who saw Miss Russo in "The Red Robe", and "Waiting for Lefty", will welcome the opportunity to see her again.

Students may purchase tickets from any member of the dramatic society for ten cents.

Fraternities Plan Rushing Reforms

New rushing rules was the topic discussed at the Armour interfraternity council dinner and meeting held last Wednesday evening at the Delta Tau Delta house and it was proposed to have the new rushing week, a week before school opens, to be called Freshman Week. The week will comprise the following activities: registration, orientation tests, group meetings and group assemblies, and also rushing, which will take place in the latter part of the week.

Those present were the interfraternity council, which consists of the head officer of each fraternity, and Professors S. M. Spears, W. B. Fulghum and W. J. McLarney, who are the faculty advisers. The host for the last meeting was Pi Kappa Phi. The next dinner and meeting will be held at the Phi Kappa Sigma house next Wednesday. A dinner and meeting will be held at a different house every two weeks on Wednesday.

Dr. Poulter to Speak On Pressure Effects

Dr. T. C. Poulter will speak at a dinner meeting before the Chicago Section of the A.S.M.E. on Nov. 19 at the Naval Reserve Armory. The study and application of high pressure phenomenon and a resume of Byrd's last Antartic Expedition are the topics which Dr. Poulter will cover in his talk.

His main topic, that of high pressures, will deal with the effect of high pressure on matter, compression of water to half volume, and changes in composition of matter while under high pressures. Dr. Poulter has reached pressures of 1,500,000 pounds per square inch. The explanation of the methods used in this research work is to be supplemented by lantern slides. The actual objects which he subjected to these enormous pressures will also be shown.

Dr. Poulter was asked to speak also of his experiences at the South Pole.

Heald to Speak at W.S.E. Meeting

Dean H. T. Heald, acting president of the Institute, is scheduled to speak at a meeting of the Engineers' Council for Professional Development next Thursday evening. The meeting is sponsored by the junior engineers, and will be held in the W.S.E. rooms at 205 Wacker Drive, 12th floor, at 7 p.m.

Dean Heald will discuss the work of the E.C.P.D. with particular reference to its interest to junior engineers. Some of the ways in which the junior engineers may participate in the program of the Council will be pointed out.

The E.C.P.D. is a conference of engineering bodies organized to enhance the professional status of the engineer through the cooperative support of those national organizations directly representing the many different phases of an engineer's life. The E.C.P.D. carries out the work of improving the engineer by selection and guidance of those who seek to enter engineering schools, formulation of criteria for engineering collegs, encouragement of training of the young engineer, and recognition of engineers who have met suitable standards.

J. R. Van Pelt, Jr., past president of the W.S.E., will supplement Dean Heald's address. The subject should be of interest to all engineers, and students are cordially invited.

Faculty, Student Delegates to Visit National A.I.Ch.E. Meeting at St. Louis, Mo.

Twelve seniors, several juniors, and two faculty members, Professors McCormack, and Kintner, are planning to attend the national student meeting of the A.I.Ch.E. at St. Louis, Missouri, next Monday and Tuesday. Here students of chemical engineering from colleges all over the country will meet, exchange ideas and experiences, and learn many things about their future profession that cannot be adequately handled in the classroom.

Because of the wide variety of chemical plants in the district, two plant visits of special instructive value have been selected. The first plant to be visited will be the Monsanto Chemical Company on Monday, November 15. Here the student members will see the company's new pilot plant, in which are consolidated the various essential steps between laboratory and full scale production. The plant provides excellent facilities for these steps, fulfilling a three-fold function: research, semi-plant, and preparation for full scale installation.

The second plant to be visited will be the brewery of Anheuser-Busch Inc. on Tuesday. In this plant the procedure and equipment used some twenty years ago may be compared with modern engineering methods.

After the dinner to be held at the Kings-Way Hotel on Monday and the luncheon on Tuesday, several outstanding chemists and chemical engineers will be heard.

Students Take Initiative in Student Union Drive

Plans have been developed for several years to use Mission Hall partly or wholly for a Student Union but no motion has been made to carry the work through. Now the student body is taking the initiative and will promote a plan for the new Student Union.

By way of the TECH NEWS, a campaign has been inaugurated to draw student interest. Work of organization will be carried on under the guidance of student leaders. Most likely, C. W. Dunbar, president of the A.T.S.A. and the TECH NEWS editors will form a nucleus of organization.

Drafting Room to Lounge

It is planned to change Mission Hall into a Student Union. The present Civil drafting room would be converted into a lounge for the student body with plenty of reclining chairs and light reading material. Other class rooms in the building would be remodelled into offices for the alumni association. The possibility is seen of moving the kitchen to one end of the ground floor and forming a large dining room which might be used for all student banquets.

Many claim that if the obsolete chairs in the assembly hall were replaced by movable ones and if the surrounding class rooms under the balcony were cut out, with proper preparation of the floor the hall might be used for the smaller school dances and social functions.

Promoters of the idea see the present Mission Hall as the Student Union of the near future containing a beautiful lounge, a large banquet hall, a small dance floor, and the present faculty club and supply store.

To Fill Out Ballots

Student leaders say the plan is extremely practical. If the student body en masse shows support of the project by filling out the ballot on page four of this paper, a definite step toward the students' Student Union will be made.

Ballots when filled out should be dropped in the New's Box near the drinking fountain on the first floor of Main.

Campus Club to Move Into Newly Decorated Rooms

The Campus Club will move into its new quarters on the third floor, first entrance Chapin Hall this week pending the completion of the remodeling program of the rooms by the club members. At their first meeting officers for the coming year will be elected and a program will be organized for the season.

Coincident with the election will come a determined drive for new members. The club provides lounge, study room, and recreational facilities such as a ping pong table, radio, and a pool table for its members. The organization is entirely social and all students at Armour are eligible for membership and invited to join.

Students interested in becoming members of Armour Tech's Campus Club are invited to visit the rooms and become acquainted with the members.

A.S.M.E. Tours Nash Factory at Kenosha

Touring the entire Kenosha plant of the Nash Company last Wednesday, November 5, the A.S.M.E. made their initial inspection trip of the current semester. Almost one-hundred members comprised the visiting group and spent the entire day at the factory. The trip was termed one of the most complete and successful undertaken in recent years.

The tour of the entire factory included the inspection of the following shops: metal stampings, machine, forge, foundry, heat treating and motor testing. Also seen were the motor and body assembly lines.

Since most of the actual parts of the car were constructed at the factory, the processes were complete in almost every detail. Many pieces were seen from the initial molten state through the final heat treating processes. The forming of the hood and fenders from the sheet metal was studied in its various stages. The final and probably the most interesting process was the assembly line of the automobiles where all the constructed pieces were finally placed in the finished product.

Mathematical Wizard Covers Four Year Education in Quarter Book

By R. Perry

It must be essentially a waste of time, and basically it will no doubt wound many industrious students, to learn of the deception perpetrated upon them by the school fathers in prescribing four years to adequately cover the principles of an engineering education. It was only last week that the scales dropped off, the wool was removed, and many were enlightened by the purveyor of a pamphlet guaranteed to ease the mental travail inherent in arithmetic calculations. Notwithstanding the fact that the audience happily chorused the answers to his pet problems before he could illustrate how speedily a solution could be reached with the short cuts, he stands as a symbol.

Clad in the robes of a messiah and carrying aloft the billowing flame of the torch of wisdom he shall return, and having returned, will his library consist of "*Shortcuts to Arithmetic*"? No! On that distant day when the divine touch of inspiration has descended upon him he shall return laden with others. *Physics Made Easy* and the *Little Gem book of formulas* (warranted to solve any problem ever conceived by the fertile brain of malicious professors) will be among their number. No longer will it be necessary to attempt to sleep despite instructor's dinning in the ears. No longer will it be needful to strain the eyes on ponies (in poor light too.) Throw your slide rule away and concentrate on mastering calculations by the use of your fingers, for Utopia is not far! Come the bright new dawn of another era. Why don't you too get in on this new field? R. Z. writes; "Made $333.47 first week in spare time." A few districts still open for "Live Wire" up and coming 100 per cent clean living, well dressed Americans. ('Stough of Armourites). Write today!

Reverend Stewart to Address Armistice Day Assembly on Thursday

Five to Pick New Armour President

At the meeting of the faculty committee last week, Professor McCormack and Professor Grinter were elected to serve on the committee of five, to select Armour Institute's new president. Three members of the board of trustees, E. D. Griffenhagen, B. E. Sunny, and C. S. Davis will act jointly with the two professors.

Until a new president takes the place of Dr. W. E. Hotchkiss, Dean H. T. Heald will act as executive officer of the Institute and occupy the corresponding offices on the 2nd floor of Main. It is expected that he will act in this capacity for at least six months. Dean Heald has been with Armour Tech since 1927 when he came here as an assistant professor of engineering education.

Assistant Dean C. A. Tibbals is moving his head-quarters to the office formerly used by Dean Heald.

A.S.M.E. Head Lectures Before Armour Branch

Mr. James H. Herron, president of the American Society of Mechanical Engineers, spoke to the Armour student branch of the society yesterday at a special meeting held at 11:30 in the assembly hall.

Mr. Herron, who is touring the country speaking before the various branches of the society, discussed the society's affairs, explained the advantages of membership in the organization, and pointed out its numerous activities.

The prominence of Mr. Herron in the engineering world is evident from the fact that after receiving his M.E. degree at the University of Michigan he quickly rose from apprentice to draftsman and eventually to the head of an engineering firm which bears his name. He is inventor of the air compressor inlet valve unloader and other devices for use with air compressors and metallurgical furnaces. He has been an active member of the A.S.M.E. since 1917, his work being connected with the Cleveland chapter. Previous to his election to presidency he was vice-president for the year 1934.

Prof. Harris to Give Slide Rule Lectures

At last Friday's meeting of the Armour Tech Math Club, it was announced that Professor Harris of the mechanics department will deliver a series of talks and demonstrations on the use of the slide rule. Under classmen, sophomores especially, who are bewildered at Mr. Harris' lightning-like slide-rule calculations will have the opportunity to gain a thorough insight of the intricate manipulations this instrument demands. The exact date of these meetings will be announced soon. The lectures by Professor Harris will be similar to the popular talks he gave last year before the Math Club.

President A. Zarem of the Math Club led last Friday's meeting, which was held in Science Hall, through a ten minute business meeting before continuing his talk of "Tricks in Mathematics" begun at the previous meeting. Members present at the meeting voted for dues of twenty-five cents a semester. Zarem expressed his desire to see more student speakers addressing the group. Invitations have been extended to several prospective outside speakers.

Attention was called to the coming mathematical exhibition to be held at Adler Planetarium within three weeks. Professor Krathwohl has asked that Armour's student interested in mathematics arrange an interesting display for this exhibit. Progress is being made in this direction by members of the Math Club.

Glee Club Also to Participate in Ceremonies

Right Reverend George Craig Stewart will address the Armour student body next Thursday morning at the annual Armistice Day assembly in the Mission at 10:30. The Musical Clubs will also participate in the assembly and make their first appearance of this semester.

The Right Reverend Stewart is Bishop of the Diocese of Chicago of the Protestant Episcopal Church and in addition to being a religious leader, he is an outstanding citizen, lecturer, author, and educator. He is a regular speaker at Princeton University, Northwesten University, and the Western Theological Seminary.

He received his B.A. degree and his D.D. degree from Northwestern University, the L.H.D. degree at Kenyon College, and the S.T.D. degree at the Western Theological Seminary. Bishop Stewart was ordained a member of the Methodist Episcopal ministry in 1900, and soon rose to the position of rector of St. Luke's Chapel in Evanston. During the World War he was an active chaplain; and was consecrated a bishop in November 1930.

Bishop Stewart is a trustee of Northwestern University and the Western Theological Seminary. He is the author of numerous popular books including *The Victory of Faith*, *The Face of Christ*, *The Call of Christ*, and many others dating from 1914 to 1935.

New Laboratory Now Completed

Investigation of Insulating Materials to Be Conducted

Continuing its active expansion program, the Research Foundation is preparing to open an Insulating Material Research and Testing Laboratory located on the second floor of the Research Foundation Building under the direction of Professor Peebles, assisted by Dr. Carl Anderson.

Room Heavily Insulated

The laboratory proper consists of two parts, the constant temperature room, and another room for preparing sample panels and sections. The constant temperature room is twenty feet square and ten feet high. The walls and ceiling of the room are lined with two layers of two inch cork insulation.

Under the cork insulation is buried a maze of wire leading to seventy thermocouples, which are located in the walls, ceiling, and floor of the room. These wires lead to a master control panel located outside the room. This panel will enable an observer to determine the temperature of any part of the room exactly, at any time. In order to simulate weather conditions two refrigerating coils will be suspended from the ceiling, and heating units will be placed on the floor.

Can Erect Entire Wall

With a room of this type, full size panels may be built for testing purposes. Roofs of different types and entire walls can be easily erected in the testing room. The cooling units on one side of a panel, and the heating units on the other will provide a wide range of temperatures for testing the efficiency of insulating materials. Cross sections of the panels will be equipped with glass. Since temperature effects can be accurately observed by the condensation of water vapor, the insulating qualities of the material may be observed through the glass.

The laboratory will be serviced by an I-beam trolley furnished with a one ton hoist. In this manner all types of material can be handled with ease. The first type of work to be undertaken in the new plant is the testing of stove insulations.

Campaign for Student Union Begins

The lid is off. Now student leaders are beginning a campaign to interest fellow students in the needed Student Union. It is planned to convert Mission Hall into a Student Union building with all those dreamed of lounges.

It would be a pleasure to have some place to bring friends and visiting teams to sit down and be sociable without reaction with a hard classroom chair and without facing a blackboard.

Seniors can imagine themselves returning some time in the future to an alumni banquet held in an enlarged dining hall on the ground floor of the Student Union building and gathering for a good time afterwards in the lounges upstairs or perhaps seeing movies of old times in the remodelled assembly hall.

All students must necessarily get behind the move, talk it up, and support it themselves. It remains for the student body to begin the campaign and accomplish something definite. Then the alumni and the Board of Trustees will cooperate whole heartedly.

On the front page of this issue is an article which describes the aims of the movement in part. On page four appears a ballot which every student should fill out and drop in the *News* box near the drinking fountain on the first floor of Main. Student enthusiasm will be judged by the ballots returned. Cut out your ballot now and drop it in the *News box*. We're all depending on you.

Saturday Night Preferable for Dances

For years Armour dances have been held on Friday nights, but upon looking over facts and circumstances, it becomes evident that Saturday evenings would be preferable for these social affairs.

In the past it has been maintained that ballroom rental fees are higher on Saturday nights. However, a recent investigation has proven that rental fees are identical for both Friday and Saturday evenings.

Many students have Saturday classes, and many feminine companions of Techawks are employed on Saturdays. As a result, some of these individuals do not go to Friday night dances. If they do go out Friday evenings, thoughts of work on the ensuing day prevent them from enjoying the evening to its utmost.

Again, other students work in night school on Friday evenings and still others are occupied in student activities. For these, it is impossible to attend the Friday night dances. A large group of night school students would attend dances, but have been unable to do so because of the dances being held on Friday evenings.

Definitely, Saturday night dances would have a larger attendance resulting in larger cash returns. It is hoped that the various social committees will weigh these facts carefully and schedule future dances on Saturday nights.

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Keep Armistice Day on November 11

When the largest war of all time was over, there was great rejoicing, not because one side won, but because loved ones were no longer in constant danger and people felt that the Dove of Peace had outdistanced Mars—permanently, for was this not the "war to end all wars"?

Celebration of this day continues and periodically reminds us that unless we feed our American Dove with substantial food it may be again overtaken by the Carnivore. That the race is by no means won may be seen by glancing to what used to be the Far East, but what is becoming the Nearer and Nearer West. If a world power should win an aggressive war, militaristic thinking in that nation might become unbalanced in relation to pacifist thinking, and America might again become involved in a war

Nothing but unceasing effort at sociological and political improvement along with military preparedness will ever succeed in keeping Armistice Day on November 11.

ETA KAPPA NU

To bring about closer cooperation among, and mutual benefit to, students and others in the profession of electrical engineering, who by their attainments in college or in practice manifest exceptional interest and marked ability in this field, this honorary fraternity was founded at the University of Illinois, Urbana, in 1904. Delta chapter of Armour was chartered in 1909.

Its members are selected from the junior and senior electrical classes on the basis of their service, scholarship, and cooperative activities. There are four grades of membership; undergraduate, graduate, associate, and honorary. Electrical engineers in the field may be elected to either of the last two qualifications by virtue of their meritorious work.

The twenty-eight active chapters and the eleven alumni chapters are cooperating with the industry's professional society, the AIEE, to bring about an increased interest in the field. An example of this is the annual awards made by Eta Kappa Nu to the most outstanding electrical engineers not more than ten years out of college. An active interest is also taken by the association in electrical engineering curricula, and "The Bridge," a bi-monthly publication of the association, has become a forum for articles on this subject.

Fraternity Notes

"Huge successes" are being claimed by the fraternities for their Hallowe'en parties and dances which were given a week ago last Saturday. The Pi Kappa Phi party included a novel arrangement whereby a dressing committee made sure that everyone was in costume for the party. The Phi Pi's and Delts say that their dances were among the best ever given at the houses.

Teas

Phi Kappa Sigma and Phi Pi Phi report that Mothers' Club teas were held at their houses last Sunday afternoon. These teas brought together mothers of the new pledges and the mothers of the members. The Pi Kappa Phi Mothers' Club announces a card party to be held November 20th at the house. The mothers have guaranteed excellent refreshments and a large number of prizes.

This week the members of Theta Xi are going to attend the weekly luncheon of the alumni in The Fair building.

Travelers

Two automobile loads of Armour Phi Kaps are going to drop in on their Minnesota brothers next Friday for the week-end. The boys hope that the surprise will be a pleasant one for their hosts-to-be. The Northwestern-Minnesota football game will be one of the events taken in.

Last Saturday Rho Delta Rho held a pledge dance at Thame Hall. Russ Morgan's orchestra supplied the rhythm, and unique programs in the form of a slide rule were used.

Touch Ball

Interfraternity touchball semi-finals will be out of the way this week and the winner of the game between the winners of the Delta Tau Delta—Phi Pi Phi and the Rho Delta Rho—Sigma Alpha Mu games will get the mythical cup.

House ping pong tournies are due to get under way in preparation for the annual interfraternity tournament. Some of the houses will have pool tournaments also, for the members who like the more solid sound of ivory to ivory.

THE MAILBOX

In view of the treatment of our efforts at composing the "Fraternity Notes" and the rehashing that has been done to them, we don't feel it worth our time to bother with them. When the notes are back as of last year we will gladly contribute.

Douglas MacDonald.

The Slipstick

Cleave to the slipstick; let the slapstick fly where it may.

Most columns of this type usually begin with a poem. That's a very good way to open a column. I'd do it too but I have no poem. It was my fondest wish to write an ode about an engineering report. After writing four swell stanzas and three bang-up lines in the last one I couldn't get a word to rhyme with "bounce." So we'll let it go for some other time and start in with the jokes.

* * *

BUTLER: There's a lady pedler at the door, sir.

ME: Okay, tell him to come in and bring his samples with him.

Swiped.

* * *

Drunk (phoning to wife): "Thash you dear? Tell the maid I won't be home tonight."

* * *

Thirty-eight more days till Christmas recess.

* * *

"You look sweet enuf to eat,"
He whispered soft and low,
"I do," the fair answered,
"Where do you want to go?"
FOLLIES OF 1910.

* * *

Pop: How is it, young man, that I find you hugging and kissing my daughter? How is it, I ask you?

YOU: Oh, it's great, it's great!

* * *

Eejay, the movie hound, is having his teeth X-rayed. He wants to see a preview of the coming extractions.

* * *

A backwoods mountaineer found a mirror which a tourist had lost.

"Well, if it ain't my old dad," he said, as he looked in the mirror. "I never knowed he had his pitcher took."

He took it home. That night while he slept, his wife found the mirror.

"Hum-um," she said, looking into it, "so that's the old hag he's been chasin'."

* * *

Two fellows who have hot lips are a star trumpet player and a Scotchman finding a cigar.

* * *

Add to collegiate definitions:

Professor—A hired bit of camouflage placed around an athletic club to give it the appearance of a university.

Bachelor—A fellow who never makes the same mistake once.

Bigamist—A man who is very broadminded about marriage.

* * *

Whenever I try to write a poem,
If there are words that rhyme, I don't
know-em and that's **ZAZU.**

Homesick Hillbilly Writes of Skool life to Deer Sally Back in the Mountains

Dear Sally,

Well, Sally old gal, old thing, hear it is the 6th, or 7th weak of skool, and I am just that. Yes sir, I mean yes mam skool is reely tough-like your maws pie crust? This yeare I am wressling with a thing called Calculus. No, it is not Greak, it is a study of upper, or maybe it is hier mathematiks. Then their is mechanismm, sometimes called kidetatics, or something. This hear subjekt is reelly hard. News of a tesst in it leeves us in a cold mist. Evry time the prof. (I think it stands for profit) enters the classe, a shuuder runs around the rome and then slows down to a walk.

No soonner do I step out of the fire, than I am in the frying pan, for allong coms chemestree. You shure learn a lot in this course. Did you ever no that that stuff your grandpappy brews has carbon and hydorjen and oxigen in it, practikally a mixture of soot and water?

I'd hate to bee a bridge. Did you no that the bridge over Unc. Fooey's kreak has stress'ss and strains and compresions and tenshions and everything? Gosh, that bridge must be tired. We lernt that in a mekanics class o boy, hot stuff eh?

Gee, peeple hear are funny. Other fellows in our skool—some of them anyhow where grean caps and NO pants. Can you emajine that. And down home all we wear are beards and carry a jug of grandpappy's good home brew.

It seams that profs. have a cents of humer too. One was teeching a hi skool geometry class (angles on this and that, the same old lines). Anywow, he said that a rite angled triangle is one with a hypotenoose opposite a right angle, and with two legs. Just then a cute little thing in the bak of the rume gigglied out loud, like pappy's pigs. He kame rite out and said quote Haven't you two legs too? Unquote, however he did not ask her if she had a hypotenoose also. HaHa, it shure put the class in konvulshions.

Well, Sally, be good until I rite again. Everytime I see the milkman's horse, I think of you,

Yures forever,
Stoopbrain Bliss.

Co-Op Code

Sampson seems to think that the only cure for insomia is the Chem Lecture class. The professor, in Sampson's defense, says it's O. K. to sleep in class just so long as you don't fall out of your chair and wake up the rest of the nodders.

* * *

Don't forget co-op basketball practice every Friday morning at 9:30. How about a few of you fellows showing up for a change?

* * *

After an extensive poll of three students we have the following reforms to suggest to our employers to make this a better world to wirk in:

1. Permit sunbaths during work hours.
2. Place bridge tables in all departments.
3. Organize inter-department polo teams.
4. Take out time clocks; replace with free gum machines.
5. Put a hamburger sandwich and a sweepstakes ticket in every pay envelope.

We guarantee the bankruptcy of any firm that places this plan into effect.

Stop me if you've heard—
Look twice at the girl who seems exotic
On second glance she's just neurotic.

The Great Rhombicosidodecahedron

Have you ever seen a great rhombicosidodecahedron? It his 62 faces and 120 vertices. The small rhombicosidodecahedron also has 62 faces but it only has 60 vertices. Just to show that not everything is in a name, the snub dodecahedron beats these two by having 92 faces, but it only has 60 vertices. By this time you have guessed that these are polyhedrons. There are 13 of them belonging to the family of inscriptable Archimedian polyhedrons, and all thirteen can be seen on the first floor of the Planetarium in an exhibit prepared by the Evanston High School and the Tilden Technical High School.

This exhibit is sponsored by the Women's Mathematics Club and the Men's Mathematics Club of Chicago. It is intended to show how practically everything in life is influenced by mathematics. There are so many items in this exhibit of particular interest to engineering students, that a trip to the Planetarium to see them is well worth while.

W. C. Krathwohl.

"The students who rank highest in scholarship are also the students who take an active part in extra-curricular activity." Dean G. Herbert Smith of De Paul University hastened to add that "bookworms" rarely make the highest grades.

Juniors Outrun Frosh in Second Overtime, 31-28

Interclass Cage Title Goes to Junior Five

In a hard-fought, final battle of the cage tourney, the juniors annexed the interclass basketball championship when they overcame the frosh, 31-28, after two overtime periods last Friday afternoon. Baskets by Grabacki and Praudzick in the second overtime, proved to be the winning margin.

Juniors Jump Into Lead

The upperclass men jumped away to a comfortable margin soon after the opening whistle and were able to maintain their advantage throughout the first half. The frosh had to be content with long shots because of the juniors' tight defense. Hoffman and Moculeski lead the first half attack, each garnering a total of six points to give the juniors a 14-7 lead at the half.

With the initial tip-off of the second half, the frosh began to find the hoop and gradually overcame the juniors' lead, mainly through the sharpshooting of Whitehead. The freshies assumed the lead, 23-21, for the first time on Whitehead's basket. From then on the game resembled a fight to death. In the closing seconds of the half with the score 25-23 against the juniors, Hoffman sent the game into a deadlock by dropping a bucket.

Each Score in First Overtime

The first overtime saw each team drop in one basket keeping the score tied. Prawdzik's basket gave the third year men a temporary lead which was quickly nullified by Long's bucket. The first overtime ended with the score tied at 27 all.

In the second overtime, baskets by Grabacki and Moculeski gave the juniors a lead which the frosh were unable to overcome, although Shapiro did his bit by dropping in a charity toss. At the closing whistle the juniors had a well-earned 31-28 victory and a class championship to their credit.

Tech Cagers Open Practice in Gym

Prospective members for the varsity basketball squad turned out in a body for the first warm-up session of the season last Monday afternoon. Practice will continue in the gym until November 15 when the squad will move to the Armory floor for the remainder of the season.

Twenty-three candidates for the team, under coach Stenger's supervision, spent the first night out loosening up muscles and conditioning themselves for strenuous practice to follow. Special stress was made on passing drills and pivoting along with other basic fundamentals of the game.

This year's squad will suffer the loss of three of last year's lettermen, capt. Heike, Merz, and Shukes. However the Techawks, led by co-captains O'Brien and O'Connell, along with last year's veterans and last year's freshmen, expect a successful season. Last year's lettermen who are returning are Wagner, Janicek, Henriksen along with Swanson and Kubicka. Last year's freshmen will be represented by Bill Weber and Bill Sherer, a pair of promising cagers.

1937-'38 Basketball Schedule

Dec. 1. Milwaukee Engineers — Here.
Dec. 3. Open—There.
Dec. 9. Arkansas State—Here.
Dec. 11. Lake Forest College — There.
Dec. 15. Beloit College—Here.
Dec. 18. Chicago University—There.
Jan. 2. Lake Forest College — Here.
Jan. 7. Open There.
Jan. 13. Open—There.
Jan. 18. Elmhurst College—Here.
Jan. 21. Ypsilanti State Normal — Here.
Feb. 3. Ypsilanti State Normal — There.
Feb. 5. Detroit Tech—There.
Feb. 10. North Central——Here.
Feb. 17. Milwaukee Engineers — There
Feb. 21. Detroit University Here.

TECH SHORTS

By Ray Braun

* * *

After four weeks of busy play, during which the field was cut from twenty to seven, the touchball tourney is nearing its completion. This week's play will bring the field down to three, and next week will determine the tourney champions.

* * *

Going into the closing stages, only two teams have kept their lost column clean, but both of these have one tie against them, all of which means it's almost anybody's tournament even at these closing stages.

* * *

Tie touchball games will not be in order this coming week due to the new rule of allowing two ten minute overtime periods in case the score is at a standstill after the scheduled thirty minute period. If they can't decide it after fifty minutes of play we'd suggest a coin flip.

* * *

In the near future we'll get our first chance to see Tech grunters and glove throwers in action. Entries for the boxing and wrestling tourney having closed yesterday, action should be only a matter of days.

* * *

Despite the failure to get the Tech tennis courts reconditioned to facilitate the completion of the tourney, it moved one step more toward completion when Lange defeated Frank 6-1, 6-1 in the frosh division. It was only a wee step however and we hope that they break into a run next week (both the groundkeeper and the contestants), since there still remain twelve matches to be run off.

* * *

Another sport which is due to make its entry soon is track, scheduled to get under way soon after Thanksgiving. The interclass meet will come some time in December and will see the seniors out gunning for their fourth straight title.

Seven Teams Bid for Titles As Touchball Nears Climax; Two Are Undefeated

Play to Reach Finals by Next Week

Ogden field was the scene of much activity during the past week as brisk football weather prevailed. Six teams were eliminated as a result, and now only seven remain. The tourney will be concluded by next week. The senior mechanicals started the reign of terror for the week when they defeated their departmental comrades, the junior mechanicals, 19-0.

Sr. Mechs Defeat Juniors 19-0

During the first half the juniors gave their older rivals a run for their money, keeping the ball deep in the seniors' territory most of the time from whence they launched pass after pass. However, the seniors, buoyed up by the memories of their past glories managed to thrust them back as often as they attacked. Neither team managed to score this half, although both squads made strenuous efforts.

The second half saw the appearance of a bright star in an otherwise dark and murky sky. This white hope was a long lean individual known as O'Brien. He made two successive, spectacular catches each good for six points, using nothing but the middle finger of his right hand to bring an unwieldy ball snugly into his bosom. These coupled with a touchdown dash by Seidenberg were what licked the juniors, 19-0.

Sr. Civils, Flying Skulls Tie

Showing superior pass defense, the Flying Skulls held the senior civils to a scoreless tie, last Tuesday. The game was punctuated with long runs by the darting Basile and by the general playing ability of Clark, the Flying Skulls' whirling leader.

In the first half, Basile startled the flying skulls by traversing more than half the field before stopping. However, the frosh came right back with a fleet of passes only to lose the ball on downs.

With the high wind that was blowing the civils seemed to lob their passes into the breeze, consequently most of their aerial display fizzled. The second half was almost a reproduction of the first.

Sr. Fire Protects Swamp Co-Ops

The senior fire protects romped round, over, and through the Co-op B touchball team last Wednesday morning for a 33 to 0 win. All of the fire protects scoring, with the exception of one touchdown, was confined to the first half when they were playing against a stiff head wind.

Dunbar kicked off to the co-ops who proceeded to do nothing about it, a course that they followed for the duration of the half. A pass from Dunbar to Downing started the point gathering early in the game, while McIntyre made the extra point on another pass. The next seven points saw McIntyre making the touchdown with Downing amassing the extra point. Two more touchdowns, made almost at will concluded the scoring, in the first half.

The effect of the wind whipping into the co-op's faces seemed to awaken them from their long slumber, for they made a contest out of the second half. Much of this was due to the snaky open field running of Fisher, and several nice pass receptions by Boyer.

Sr. Chems Win 6-0

At the hands of the slightly more elusive senior schmiers, the senior fire protects fell for the first time, 6-0, Thursday morning. Both teams were strong on defense, but the schmiers on a long play penetrated the goal with one pass, Kubik to Bodnar.

The insurance men reached the two yard line early in the game but lost the ball on downs. The chems, after an exchange, opened up with their usual talents, and reached the 15 yard line on two deceptive pass plays.

From here Kubik faded across the field looking for a receiver. He eluded two ends, returned across the field, again cut back, and finally lined a pass to the end zone. Bodnar snatched the ball from between two men for the score.

Austinites Have Last Minute Win

Scoring on an end run in the last minute of play, the Austinites turned back the senior civils with the conversion, 7-6.

The seniors led the attack throughout most of the game, threatening several times, but their plays were broken up near the goal. The score came late in the first half when Basile scooped up one of the Austinites passes, fell, but managed to get up and cross the goal line before being stopped. The try for extra point failed and proved to be the losing margin of the game.

With the aid of a bad high kick, the Austinites began a sustained drive which began from the the 20 yard stripe. A flashy run around right end tied the score in the last minute of play. A flat pass deep in the end zone won the game for the frosh.

Soph Mechs Lose 31-0

A razzle dazzle passing system and an ironbound defense enabled the senior mechanicals to defeat the sophomores, 31-0, Friday morning.

Bingham, on the third play, saw Simeon free near the goal and plopped the ball perfectly into his hands for the first tally of the game.

After two plays of incomplete passes, Bingham threw a spot pass into the waiting arms of a receiver in the end zone. Later, on a double interception Bingham took James' pass and ran to a touchdown in a clear field, making the score 19-0.

The next senior score was made after the seniors had kicked and then intercepted, when Seidenberg passed to Engelthaller in the end zone.

In the second half the sophs were stronger on offense, but their defense could not keep their goal clear of a senior score. This one was scored again by Bingham, who ran wide around end from the five yard line.

Flying Skulls Ousted 26-0

Eliminating the flying skulls in a scoring spree, the flashy senior chemicals ousted the frosh with a count of 26-0.

Bodnar started the scoring when he grabbed a pass a few minutes after the game started and converted for the extra point. After that Kubik showed All-American qualities when he dodged and cut the length of the field for the second score.

The frosh defense tightened up and the seniors were unable to score. Clark sparkled in the flying skull's backfield, with several runs and nice passes.

Throughout the next half, the chems had almost entire possession of the ball. However they were unable to score offensively again. Green intercepted a short pass at midfield breaking up a frosh advance waged by Clark, and scored the third touchdown. The final one came similarily when Marshall snatched a skull pass and scored.

Junior Chems Score 33-6 Win

A new high for the season's scoring in one half was reached when

(*Continued on page four*)

TOUCHBALL SCHEDULE
NOV. 8-12

Monday—
(1) 2:10—Austinites
M. E. '40

Tuesday—
(2) 10:30—M. E. '38
Winner of (1)
(3) 1:10—F. P. E. '38
Ch. E. '40

Wednesday—
(4) 1:10—Ch. E. '38
Ch. E. '39

Friday—
(5) 10:30—Winner of (3)
Loser of (4)

Overtime periods of 10 minute duration will be allowed in the above games to break tie scores. The number of overtime periods is limited to two.

TOUCHBALL STANDINGS

	W	L	T	P	TP	OP
Ch.E. '38	5	0	1	1.000	107	12
Ch.E. '39	5	0	1	1.000	79	12
M.E. '38	4	1	1	.800	99	8
F.P.E. '38	4	1	1	.800	77	24
Ch.E. '40	3	1	2	.750	64	25
Aust.	2	1	0	.666	24	44
M.E. '40	1	1	0	.500	0	31

SIDELINES

A. M. Zarem

ALTHOUGH THE Sino-Japanese war is of utmost importance to us as a nation, we must be careful not to focus our attention on it to the point where we will become oblivious of the many other trends in world affairs. Because the tendency to become mesmerized by events of great proportions is so great and so potentially dangerous at this time, special precautions will have to be taken. Enough vindication for this statement is supplied by the actions of both Hitler and Mussolini. Both of these dictators are just patiently waiting for the chance to pull a fast one on the other world powers. The danger of these actions lies in the fact that incidents are caused to occur only during times of confusion —when they may pass almost unnoticed. In this respect the German Nazis are a little ahead of the Italian Fascists.

For quite a while the Nazis have been worming their way into control of the free city of Danzig. Indications are that soon, if it is not already so, they will completely dominate the destinies of the surrounding territory. Already riots have broken out. The League of Nations guarantee that Danzig would remain a free city seems to have made little difference so that just what will be done about this incident is a matter of conjecture. If past performance is any criterion for judgment, probably nothing will happen—as far as the League is concerned.

THIS NEW triumph for Germany places her in closer contact with Czechoslavakia, Austria, Hungary, and, incidentally, France. Should Germany continue to spread its sphere of influence in this direction, there can be no doubt that France will go into action immediately.

We still hear that the next war will see the utilization of instruments of death which will magnify the horrors of war many thousands of times. Everyone has heard of new inventions of death rays, new explosives, more deadly gasses, and radio-controlled bombs. These devices coupled with the the use of bacillus warfare are the outstanding bugagoos of the next war. Contrary to popular opinion there is good reason to believe that none of them will find much use. Running down the list we notice that none of them have been developed to the "practical" stage. Let me mention some of the many problems and difficulties that have to be cleared away before any of those death dealing devices can be used.

ALTHOUGH PILOTLESS airplanes have been successfully flown by radio, this could not very easily be accomplished during the war. The ether would be loaded with radio waves of all descriptions and confusion would probably result. Considering that by chance, or with the aid of some newly devised methods, external influences could be eliminated —how could an operator controlling one of these planes tell when to drop his load of bombs?

Equal difficulties present themselevs in the other cases. No satisfactory method of protection from bacteria has pushed the use of this type of warfare far into the future. What good is it to spread deadly germs if one's own army cannot be protected from them?

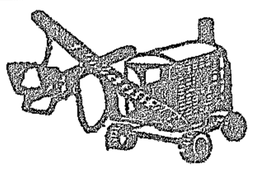
In the matter of death rays and new explosives nothing much can be said. The tremendous amount of work done on death rays still hasn't helped the thing outgrow its experimental stage.

G.E. Engineer to Describe Tube Rectifiers for A.I.E.E.

Mr. Z. J. Atlee will speak on tube rectifiers and rectifier circuits on next Friday morning at the A.I.E.E. meeting. Mr. Atlee is chief engineer of tube development for the General Electric X-Ray Corporation. He has been connected with this branch of the General Electric Company for three years. After graduating from Oregon State College he spent five yeas at the G. E. test Laboratory in Schenectady. These valuable years of experience place Mr. Atlee in a position to treat the subject in a manner that will be interesting to all.

Members and non-members alike are welcome at this meeting.

The Steam Shovel



Stan Osri wants us to tell you guys that his best friend, **Murray Underwood,** a fellow whom he'd cut his right hand off for, is running around with a gang of girls out on the West side. Their brothers, Casimer, Stanislous, Vladimer and Thaddeus are all just dying to meet him . . . says Stan.

* * *

Miss J. McG. wants **Dick Vandekieft** to know that she is out of school despite his skepticism. If he promises her to stay on the water wagon hereafter, she'll forgive him.

* * *

This space is reserved for Ed. Brown and Hal Heidman.

* * *

HAROLD "BUTCH" STEHMAN was initiated as a member in the Shirley Temple Club last Thursday. He has nothing on **Neubauer** and **Saigh** however, they just joined a Lonely Hearts club.

* * *

DICK ANSEL sat in front of the Dean's office the other day and declared, "It sure is great to have a secretary."

* * *

"Empress" Plummer hasn't straightened up yet after his Milwaukee visit of last Wednesday. Bur-lesk" Nicholas enjoyed himself too.

Aerodynamics Class Visits Chicago Municipal Airport

Adding an aspect of reality and practicality to their studies, Prof. M. B. Wells' class in aerodynamics visited the Chicago Municipal airport last Friday afternoon.

The class became a group of Hawkshaws, inspecting with interest several planes used by the United Air Lines Co. From there, they were taken through the maintainance hanger of the American Airways Co. Here they saw a Douglas DST plane (a transatlantic sleeper that travels between Los Angeles and New York) in process of complete overhauling. They also saw the engine maintainance division, where airplane engines are completely overhauled after every 450 hours of running time. In this division, they saw an engine on the test block, where each engine is given an initial five hours of running, before it is re-installed on the plane.

The American Airways principal maintainance division is in Chicago, where each airplane is periodically given a complete overhauling, which takes an average of seven to twelve days to finish.

Sphinx Honorary Fraternity Pledges News' Make-Up Man

Russell Kotal was pledged yesterday to Sphinx, the honorary literary fraternity. He will be officially initiated some time next week.

Kotal, a junior, is a member of the staff of the Armour Tech News. He has served the publication for two and one-half years and now holds the position of make-up editor.

ARX NEWS

Every once in a while the column gets in the hole, both for time and what to write. This time the junior class charetters will speak their piece, and so—Read On!

Goldsmith — "Oh golly, worry, worry. Next week is Tuesday."

Bradt—"When in the h - - l can I get some sleep."

Shield—"Was my week-end worth it?"

Osterman — "Nuts to the Arx News!"

Danforth — "That's no T-square, that's Pelz's nose."

Wilkenson — "Now that I have a plan, what do I do with it?"

Scott—"I think that S. M. Spears is pretty."

Bouland—"What's that smell? Is it the air brush, or just Goldsmith's sandwiches?"

Richardson — "Has Mac okayed your poche?"

Nielsen — "Bradt, when yill you buy something of your own?"

McClanahan — "Make it Beaux-Arty!"

Davidson—"Since when does the nigger do all the work?" (Since Street is in schoól.)

Jake—"Professor Potter is a marvelous man."

Kubicka — "Somebody put some itching powder down my back."

Mike—"What can you do if your girl won't talk to you?"

A STEP TOWARDS A STUDENT UNION
(A Student Plan)

I am interested in promoting the plan for a Student Union. ☐
I could interest about _____ men in the project.
Year _____ Dept. _____
Faculty _____ Alumnus _____

Touchball-

(Continued from page three)

the Ch.E. '39 ran unmercifully over the Coop A team to score 33 points in the first half and, although held scoreless in the final half, came out victorious, 33-6.

The first play was a well-executed sleeper pass from Rothenberg to Ryan who crossed the goal unmolested. The conversion was accomplished on a toss, Kruse to Lyckberg. Again the chems received and marched to a touchdown.

On the next kickoff Rothenberg of the thirty-niners lateraled to Kruse who outran the opposition for the score. The co-ops kicked off and finally had their first offensive chance of the game after the chems had lost the ball on downs, but the chance came to naught when Spengler intercepted a co-op pass and crossed the goal line.

Kruse soon intercepted another co-op pass, and the chems scored a few minutes later on Kruse's toss to Spengler adding the point on a pass, Rohtenberg to Kruse.

A new scoring record seemed very likely at the beginning of the second half, but the co-ops battled their opponents to a stand still throughout the remainder of the game. The chems worked the ball down to within scoring distance, only to have Fisher intercept their pass and run the length of the field for the score, depriving the chemicals of a shutout.

Fraternity Touchball Invades Semi-finals

Invading the semi-finals of the fraternity gridiron bracket, Sigma Alpha Mu and Rho Delta Rho were scheduled for a tilt yesterday. Tomorrow the Delts meet Phi Pi Phi, to decide who also will reach the finals.

Last Monday saw the Phi Pi's holding Pi Kappa Phi with a margin of a safety in a 14-12 score. The Heidenreich brothers provided the passing combination which gave the Pi Kaps most of their gains, but darkness and the defensive work of Abbott were two obstructions to their overtaking the Phi Pi's.

Delta Tau Delta held a six point lead over Triangle throughout their game last Tuesday, and clinched the victory with another touchdown in the last minute of play. With the aid of the wind the Delts took a Triangle kick on the Triangle's twenty, and found Laise open in the end zone on the fourth down.

Triangle's line broke up most of the plays, but they were weak on passing. After several intereceptions, the Delts reached the Triangle goal, scoring in the last minute of play from McIntyre to Laise, and closing the game at 12-0.