



UNION TO OPEN MONDAY

Initiate Seven Into Tau Beta Pi; Spencer Addresses Meeting

Schommer Talks Football After Dinner

Initiation of seven men into Tau Beta Pi, national engineering honorary fraternity, was conducted last Tuesday night before an assemblage of about one hundred and fifty alumni members of Tau Beta Pi, convened at the Brevoort Hotel for a meeting of the Chicago Alumni chapter. Charles H. Spencer, national president of the Tau Beta Pi Association, and John Schommer of Armour Tech were the main speakers of the evening. Those initiated were: Roland B. Boertitz, Howard R. Coyle, Paul F. Henriksen, Robert I. Jaffee, Joseph J. Janicek, John D. Keane, and Ambrose M. Richardson.

Tau Betes, young and old, from schools all over the country but residing in the Chicago District, gathered together in the Gold Room of the Brevoort at about 6:30 p.m. After steak and "fixin's" and after-dinner conversation, John Schommer, dean of referees and professor at Armour, gave the group the inside story behind the various football regulations.

Discuss Tau Beta Work

Mr. Spencer, affectionately known to Tau Betes as "Uncle Charlie," then presented an informal talk on Tau Beta Pi, its meanings, and the work that it is doing. According to Mr. Spencer, an honorary fraternity that serves no other purpose than that of exercising its initiating function is rather a poor one. He then discussed the work Tau Beta Pi did last year, the organization's periodical, *The Bent*, and the Tau Beta fellowships awarded in recent years.

Mr. Spencer is a graduate of the University of Michigan, and was chief engineer for the interstate commerce commission from its inception until recently when he retired.

President Heald Talks

President Heald who was sitting at the speakers' table then gave a short speech, after which the initiation ceremonies of the Armour chapter were conducted.

Mr. Spencer then left for the University of Wisconsin, but promised to return to Armour on Friday night. A dinner in honor of him was held Friday night in the lunch-room with about twenty-five active members and Armour faculty members of Tau Beta Pi attending.

A.T.S.A. Board Will Meet Wednesday For Union Control

A committee made up of L. Norkus, chairman, R. Sweeney, E. Huxhold, T. Collier, and D. Mackey has been appointed by the A.T.S.A. to take charge of the entertainment of the Fathers' and Sons' Banquet. The date is to be decided by the committee, it being tentative, as yet, for either January 11 or 14. The banquet will be held in the dining room of the new Student Union.

The Armour Tech Student Association board will meet tomorrow, November 23, to approve the budget appropriations, and to consider a plan for the administration of the new Student Union. A committee consisting of Professor S. M. Spears, chairman, Tom Collier, and Dick Vandekieft met the week before last to offer a plan for the administration of the Student Union to the board for its consent. The plans offered as yet vary in enough respects as to make the ultimate plan a bit vague in the minds of those drawing it up, but a definite plan is expected to take shape within the next week or so.

P.L.U. Pledges Seven Chemicals at Meeting; McCormack Officiates

Five seniors and two juniors were pledged to Phi Lambda Upsilon, national honorary chemical fraternity, at the last A.I.Ch.E. meeting held in Physics Lecture Room last Friday. The meeting was called to order by Paul Peltier, president of the Armour chapter of the A.I.Ch.E.

He then introduced R. B. Boertitz, president of Phi Lambda Upsilon, who in turn introduced Professor H. McCormack. Professor McCormack gave a brief talk on the purpose and importance of the fraternity, he himself being a pioneer in the establishment of Armour chapter.

Pledges were then called on and came to the front of the room. The following men were pledged: Louis Bain, William Hofmann, Robert Jaffee, Willard Kruse, and Anton Pater, seniors; and Sidney Heenan, Henry Newman, juniors.

As their first pledge duties Newman and Heenan gave fifteen minute talks on the "History and Development of Fermentation." Newman spoke on the history from ancient times up to the time of Pasteur.

Difficulties in application of pure culture yeast in industry were emphasized by the speakers. Several industrial processes of propagating yeast were discussed. These included the Vienna process and the molasses-ammonia process, which is being widely used today.

After the talks, Professor McCormack led a discussion in which he issued the only complaint against the speakers—that they should have referred to the Bible for additional material on brewing.

Bids for Senior Dance On Sale After Holidays

Early December will find one of the country's leading orchestras occupying the pit at Armour's new and modernistic Union building for the first time. The event will be the eagerly awaited senior dance, date of which is December 10.

One of the feature events of the evening will be a unique balloon display introduced by the social committee of which B. G. Anderson is chairman. "We'll have a real celebration," says Mr. Anderson, "and we'll guarantee everyone a good time. Since it's the first dance in the new building, we hope to have a good turn-out from the entire school."

The Union, with its brown walls and cream ceiling, its indirect lighting by new, modernistic fixtures, and its new, smooth dance floor, will present a suitable atmosphere for the gala event. Adding beauty to the surroundings will be the new asphalt tile hallways, the solid stairway railings, and the improved platform.

For the convenience of those bringing their cars for the event, the social committee has arranged for plenty of parking space south of the main building and opposite Ogden Field on Dearborn St. Police and school watchmen will be on special duty to protect all these cars during the evening.

Salamander Initiates Four New Men at Swedish Club

Salamander, the honorary fire protection engineering fraternity, initiated four men into its ranks a week ago yesterday, in a ceremony held at the Swedish Club of Chicago. The men honored were Don C. Rogge and Thomas A. Hunter, students, and Leonard Peterson and William Pfafflin, alumni.

After carrying a 2½ gallon fire extinguisher around the campus for a week, and writing a 5,000 word theme, the two pledges were amply rewarded by the excellent smorgasbord and steak dinner served by the club.

Twenty one members of the fraternity were assembled from the Chicago area for the ceremony.



Thanksgiving Holidays — Nov. 24, 25, 26

Armour Series Relates Story Of 'Wirephoto'

At times man's contact with engineering wonders is dramatic, and abundant proof, if any is needed, was supplied via ethereal waves last Saturday afternoon as Armour Tech presented the "Epic of the Wirephoto" over WCFL.

Aired at 5 p.m., the broadcast inaugurated the sixth series of educational programs sponsored by the institute.

Present Recent Developments

As the wirephoto is a comparatively recent development in the field of engineering, the program presented much information with which the average citizen is unfamiliar. Many newspaper readers are aware that modern publications are equipped to print pictures of events across the world almost as soon as they happen, but few realize that the changes of dark and light are represented by electric modulations carried by a 2400 cycle current.

Pictures are transmitted over telephone wires by means of a photo electric cell, more commonly known as the electric eye. The "eye" transforms groups of lights and shadows into electric impulses which speed to their destination through wires to reverse the process at the receiving end. The average newspaper can be transmitted in about eight minutes, thus making it possible to publish in a Chicago newspaper, pictures of an event in San Francisco, before an hour's time has elapsed.

Parts Coordinated Perfectly

The ingenuity of the engineer was brought out as the narrator explained the incredible coordination which has been found necessary for the efficient operation of the wirephoto. In order to transmit recognizable pictures, the movements of the "scanner" and the "receiver" must be perfectly synchronized. This has made necessary the development of intricate equipment which retains the responsibility of keeping the units in dozens of cities in step at all times.

A touch of human interest was added to the program by depicting events in the lives of members of the Bolten family whose welfare was vitally effected by a wirephoto.

Next Saturday afternoon at 5 o'clock, Armour Tech will narrate over WCFL, the great story of the building of the Golden Gate bridge and the human struggle behind the construction.

Sunde, Oldenburg To Head Juniors

Last Wednesday at their first meeting, the members of the junior commission selected officers to conduct meetings and to represent both the commission and the junior class. The election was conducted by J. D. Shaver, retiring class president.

Nominations to each office were restricted to two candidates because of the limited number of voters. D. H. Sunde was chosen president of the commission by a majority of the voters. The position of vice president was given to K. F. Oldenburg, while C. R. Eulo was elected secretary and A. H. Pedersen, class treasurer.

Following the close of the elections, the commissioners entered into a heated discussion concerning the appointment of a social chairman. It was finally decided that the chairman of the social committee should be chosen from the class in general. The commission has posted a notice to the effect that any junior desiring the position of social chairman should turn in his application to the board of commissioners. Each applicant must state his qualifications and experience. Today is the last day that applications will be accepted.

Sophs Initiate Frosh Arx; van der Rohe Gives Plans

Last Thursday evening, the architectural department met at the Tri-angle restaurant to welcome the class of '42 into the Armour Architectural Society.

Carrying out the initiation ceremony is traditional by the sophomores. Professor van der Rohe and architectural faculty attended; Professor Mangold also attended.

The educational program for the architectural department was outlined for the coming year by Professor van der Rohe. For the remainder of the evening other business was discussed among which was the criticism of the sketches.

NOTICE

Because of the Thanksgiving holidays, there will not be any issue of the **ARMOUR TECH NEWS** next week.

The editorial department has several openings for reporters. Freshmen and sophomores are especially urged to sign for a staff position at noon today. The office is located on the third floor of the second entrance of Chapin Hall. No previous experience is necessary.

New Series of Graduate Talks To Begin Today

Dr. I. E. Perlin will give a lecture today in Room 217, Chapin Hall, at 11:30 a.m. His lecture, one of the series sponsored by the graduate school, will be on Quasi analytic functions in which he did his work for the doctor's degree. These functions are more general than the analytic functions that have been used so extensively in advanced mathematics.

Associate Professor H. S. Wall of Northwestern University will give the next lecture in the Tuesday series. The subject will be "Continued Fractions." He is an authority on this subject and has had several papers published. Dr. Reed's series was completed Tuesday, November 15, with a discussion of the use of matrices in the calculation of electrical networks. Dr. Reed is one of the few men who are familiar with this subject, which is still in its infancy.

Dr. Oldenburger will give the third in his series of lectures on December 1 at 11:30 a.m. in 217 Chapin Hall. This lecture will be on the "Algebraic Aspects of Symbolic Dynamics." He will give some of the properties of decimal numbers, which imply corresponding properties about motions. This will cover an article recently published in the *American Journal of Mathematics*, which contained some of his results on this subject.

Dr. Oldenburger started his series on November 10 with a lecture on (Continued on page four)

All Engineers To Be Included In New Society

Civils Make Motion to Apply For Charter From A.S.C.E.

At the last meeting of the W.S.E. it was decided to apply for a student charter in the American Society of Engineers. This decision came as a climax to a discussion on the relative merits and demerits of adopting the A.S.C.E. and extending the W.S.E. to include all of the engineering societies at Armour.

As the plan has been proposed at the present time, it is decided that each of the individual societies be contacted through their presidents and their opinions received on the subject. The Western Society of Engineers, as the plan suggests, is to act as a parent organization in order to promote meetings on technical subjects for the benefit of the school as a whole. This group would include the freshmen together with the upperclassmen. It is planned to hold these meetings approximately once a month and have a speaker talk on a general subject.

Various advantages and disadvantages of this plan were discussed by two student speakers, D. W. Saigh and F. A. Opila. As pointed out by one of the speakers, the freshmen at the present time have no means of becoming acquainted with the various branches of engineering being taught at Armour. In addition to being an aid to the freshmen in enabling them to intelligently choose a branch of engineering, this type of meeting can serve to give a general knowledge of the other branches of engineering to the members of the various departments.

Also stressed was that many subjects are being taught in various other curricula that certainly could be of benefit to a student taking a particular course. The only way in which information of this sort can (Continued on page four)

Student Union Building Ready For Occupancy

Next Monday the long awaited opening of Armour's new Student Union building is to become a reality. Furniture and interior fittings are all that remain to be put in place and if present plans materialize the entire building will be ready for use on Monday morning. Neither Professor Moreton nor Dean Tibbals can see any reason for slips in the plans as they have been carefully thought out.

Lighting fixtures for the assembly hall beneath the balcony are being put in place at present. The lights are of the indirect variety and are hung from the ceiling. Over the center of the floor there has been a large lighting unit built into the ceiling. This unit has a number of direct lights for general illumination in the lower surface, and a group of smaller colored lights around its edge for indirect lighting. These smaller lights are regulated by dimmers to provide all degrees of illumination.

Floor Sanded and Waxed

Flooring for the dance floor has been in place for over two weeks. It has been sanded off and waxed for dancing, so that its surface will be in good shape for the coming senior dance. Since the floor has been leveled off it presents a very expansive surface for dancing, easily able to accommodate two hundred couples.

Complete remodeling of the stage has also been carried out. The old semi-circular platform has been torn out and replaced by a smaller rectangular shaped one, equipped with recessed foot lights. A new curtain has been arranged for. The old organ has had its pipes painted in the same color as the walls, rather than to have the pipes cause such a contrast to the present color of the walls. Connections for the organ have been removed, so its voice will no longer be heard.

Lunchroom Equipment New

New maple flooring is being put down in the old room 'C' and room 'B'. The walls and ceilings have all been redecorated and new solid panel doors have been hung.

Most of the student body saw the van load of new chairs which were delivered last week. They are to go into the new lunch room along with a new set of tables. An entire set of new steam table equipment has been connected, glass shelves for sandwiches and salads have been provided, and abundant counter space has been added. (Continued on page four)

Library Receives Many New Technical Books

Continuing its ever active expansion program the library has received a large number of new titles in the past few months. Technical and semi-technical books comprise by far the largest number of the new books.

Tunnels by A. Black gives a very interesting history and description of world-renowned projects of this type. *My Scotland* by A. G. McDonnell and *Composers in America* by C. Reis, exemplify the large field covered in the new books.

All of the new indexes and catalogue together with a 1938 edition of the *Americana Encyclopedia* have been received in the last two months. Some of the new textbooks are *Airplane Structures* by A. S. Niles and J. S. Newell, *Mechanism* by P. Schwamb, and *Handbooks of Organic Analysis* by H. T. Clarke.

Several publications by companies in the nature of handbooks are also available, such as *Testing and Grading Foundry Sands* by the American Foundrymen's Association, a handbook by the New Departure Mfg. Co., and an *Air Conditioning Manual*, published by the Trane Co.

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Fraternity Notes

By EDWARD CHEVALLEY

All fraternity notes must be received by the fraternity editor before 5 P.M. Thursday in order to appear in the next issue.

THETA XI

The smoker announced last week was well attended and a good time was had by all.

Plans for the coming Thanksgiving party are well under way. Joseph Hrudka, who is in charge, is starting early with the decorations. From the outcome of the smoker, he expects a great deal of help from the alumni.

PI KAPPA PHI

The pledge dance was held last week and from the comments of the actives, the affair was a huge success. Results of the Pi Kap's ping pong tournament has uncovered some unexpected talent. To date, their only question is to mold a three man team out of the profusion of talent available.

The Brothers of Pi Kappa Phi offer congratulations to Robert Winblad on his pledging to Pi Tau Sigma.

DELTA TAU DELTA

Delta Tau Delta is pleased to announce the pledging of Judson Doane, and the initiation of Eugene Dailey into Beta Omega Nu, the interfraternity society. Congratulations, boys!

The Rho Delt lost to the Delt in a touchball tournament two weeks ago which makes the Delt men the interfraternity champs. A challenge is issued to the winners of the intramural tournament.

Dressed in tuxes, the pledge formal proved a great success.

PHI PI PHI

Ray Main has proven his skill at the Phi Pi's ping pong tournament. Soon the tables may be located in the new gymnasium which is being constructed in the basement of the house.

Phil Virtue made a wager that Vandekieft couldn't pin him on the mat ten times. Well, the results were: that Vandekieft was on top nine times out of ten. We've heard a rumor that, as a result of this match, Dick won't be very spry the next few days.

PHI KAPPA SIGMA

Phi Kappa Sigma had a real Thanksgiving dance which probably was a great success due to the popularity of an all-girl orchestra. Clark and Anderson had an eye for the blonde trumpet player.

G. Cardes, who is now attending Annapolis Naval Academy, informs

Why Students Bring Lunches

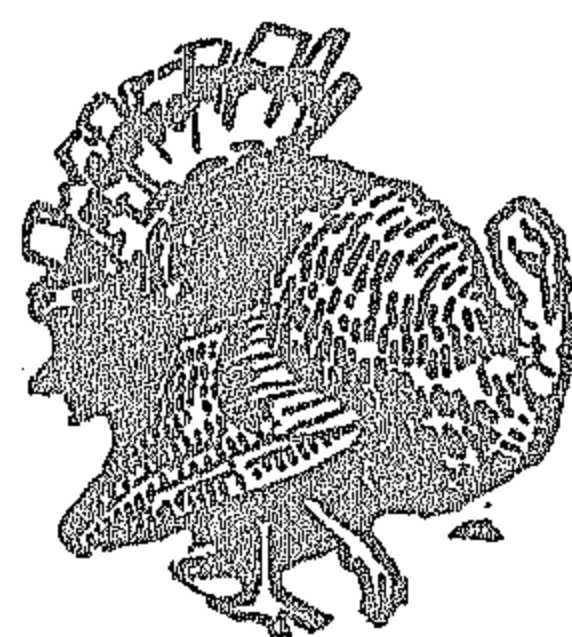
The general trend in the last year has been an increase in the number of students bringing their lunches from home. There must be a reason.

Many college students enrolled in schools throughout the country must count their pennies and make their purchases of real value. Having a substantial plate dinner for a moderate price is necessary. When one adds the price of his plate lunch, dessert, and beverage, the total price is beyond the reach of many. If the price of the complete lunch could be reduced with safety, more students would be interested in buying their lunches in the school lunchroom. A variety of appetizing foods properly displayed and reasonably priced would also increase sales. Many restaurants sell pieces of pie for six cents. A fair portion and a fair price will be more than welcome.

A question in the minds of many is, Will the dancers be able to purchase some of the well known soda-fountain specials? Student help at the fountain could serve ice cream specials and soft drinks at standard prices and thereby add to the festivities of the evening. This would also increase lunchroom sales. The old ice cream fountain reminds one of a 1939 automobile with a 1919 radiator placed on it. All the equipment of the lunchroom is new, except the soda fountain and water cooler. The steam tables are black with stainless steel and chrome trimmings, all modern. The lights will also be of a modernistic design. Every item harmonizes perfectly, except the old fixtures. The new Union and lunchroom has many possibilities during the next few years.

The Slipstick

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



We send you merry Valentine greetings on this November morning. 'Tis only a reminder that you have not been forgotten by your dear, dear instructors. Do you envy the fellow who has a nice thick envelope just chucked full of Valentines? So do we. We hope that next semester you, too, will be popular and receive just oodles and oodles of Valentines. . . .

I'm sorry we quarreled
I'm sorry we parted;
I know I'm to blame
For how it all started.
I send you this plea,
I send this regret,
But darned if I'm sorry
I attempted to pet.

"Mother, are there any skyscrapers in heaven?"
"No, son, engineers build skyscrapers."

A teacher was correcting a boy who had said: "I ain't going there."
"That's no way to talk. Listen. I am not going there; thou art not going there; he is not going there; we are not going there; you are not going there; they are not going there. Do you get the idea?"
"Yes, ma'am. They ain't nobody going."

Then there was the absent-minded professor who forgot to write a \$3.50 book to sell to his class.

Dr. Munley in freshman lecture: Now you all know what a molecule is. . . .
Freshman: Most of us do, but perhaps you'd better explain for the benefit of those who have never been up in one.

One of the freshmen was bearing up rather nobly under a particularly weary R.O.T.C. drill when he very inadvertently passed by the captain without saluting.

"Say, buddy," said the captain, with characteristic sweetness, "do you see the uniform I'm wearing?"
"Yes," said the rookie, looking enviously at the captain's almost immaculate uniform, "look at the darn thing they gave me."

You can lead a fraternity man to water, but why disappoint him?

Outside the toy animal factory the storm raged furiously. Inside the machines were silent. The enraged owner dashed up to the night foreman. "Why aren't you turning out your usual quota of toy animals?"

"The foreman drew himself up to his full height as he replied: "I wouldn't turn a dog out on a night like this."

We send our deepest regrets to the deaf and dumb individual who found himself in a deep pit and wore his fingers to the bone calling for help.

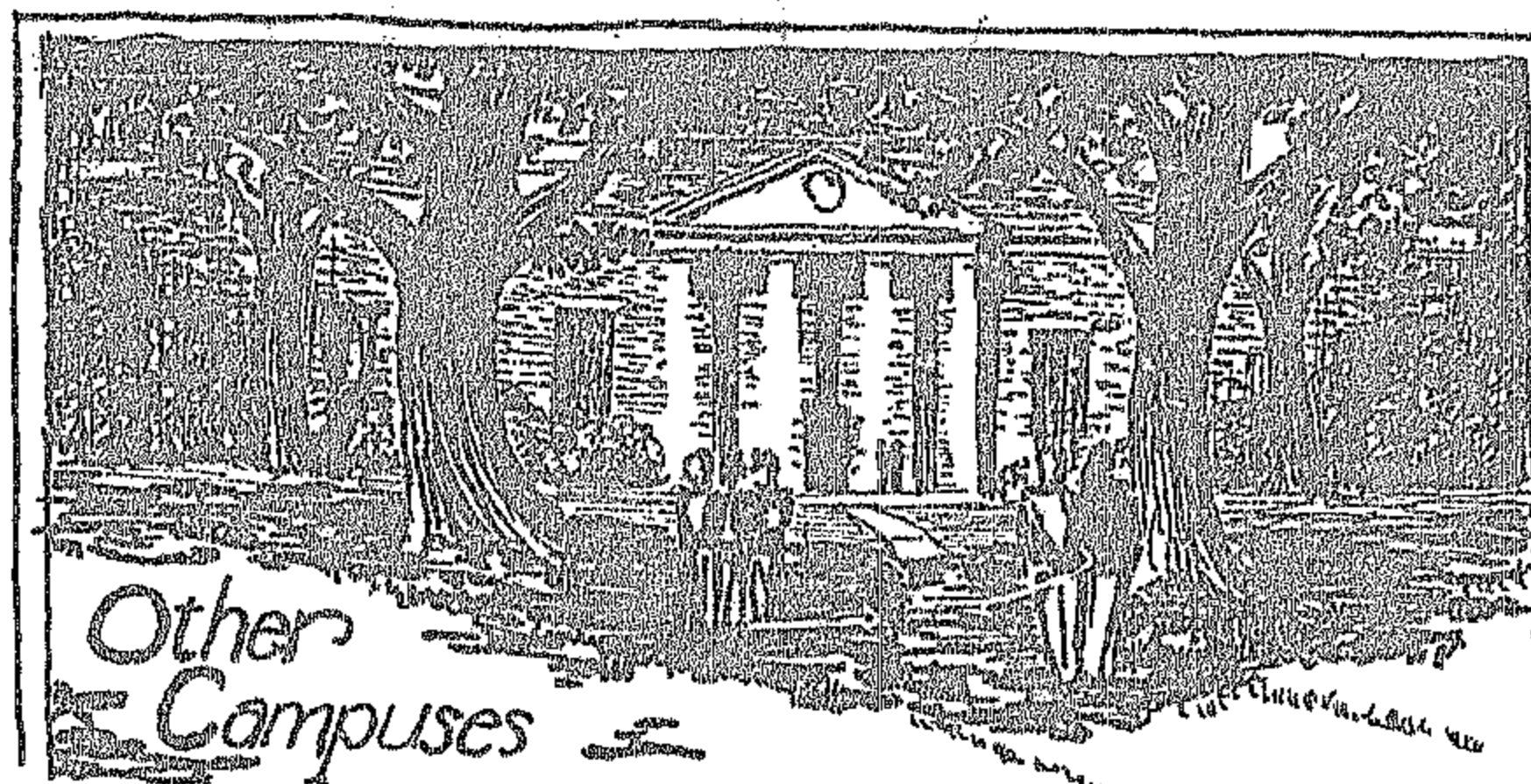
"Just think, children," said the missionary, "in Africa there are six million square miles where little boys and girls have no Sunday school. Now what should we all strive to save our money for?"
"I know," piped one, "for a trip to Africa."

"What sort of toothbrush do you want?"
"Lemme have a big one—there's thirty men in our fraternity."

A careful driver approached a railroad; he stopped, looked and listened. But all he heard was the car behind him crashing into his gas tank.

The Slipstick wishes you all a very merry Thanksgiving and hopes that you get all the second helpings you ask for. And don't forget if you're caught in hot water, be nonchalant; take a bath. Pass the cranberries maw . . .

HI YO SILVER



Men have more musical abilities than women, according to a recent survey made at Miami university.

A University of Georgia fact-finder has estimated that students spend 21,000 hours a year standing in lines during registration periods.

Though the United States paid Panama \$10,000,000 for the Canal Zone rights, it still pays an annual rental of \$250,000.

Acc reporters on Tokio's largest newspapers carry a basket of homing pigeons to rush their copy back to the office.

The University of Minnesota maintains a Newsreel Theater to bring to students latest world events caught by the movie cameraman.

Dr. C. C. Clark of New York university appeared on the first educational television broadcast ever sent over the air waves.

The chic dresser will follow the advice offered by the Detroit News. Before putting on her hat she will make sure it is her hat. If it has money in it, it's her purse.

President R. M. Hutchins of University of Chicago believes schools of journalism are "the shadiest educational ventures."

At the conclusion of the present football season the University of Southern California will have traveled 15,100 miles this season.

Students at Breen college have refused to go to class unless the professors permit the coeds and eds to sit together. Heretofore it has been the practice to segregate the two sexes.

A blonde beauty at the University of Wisconsin refused a place in the military ball court of honor because she feels so strongly against war.

Students and faculty members at Earlham college favor "bull sessions" chiefly because "we learn facts in them that the professors are either afraid or unwilling to give out."

College and university enrollments form 15 per cent of the youth of the nation of college age.

According to the Michigan Tech Lode there are approximately 200,000,000 persons who speak the English language.

Rev. C. Collins graduated from college in 1837 and was elected president of Emory and Henry college the same year.

Fritz Reimer, orchestra leader, is conducting a music appreciation course at Carnegie Tech.

More than 60,000 students in 38 universities and colleges of this country are members of the Independent Men's association.

A recent survey by the University of Wisconsin indicated that students in classes where no quizzes of any sort are given, other than midterm and final examinations, attain higher scholastic averages than do students in classes where occasional quizzes are given.

Industrial plants of Kansas furnish field-laboratories for seniors in the department of chemical engineering at K. U.

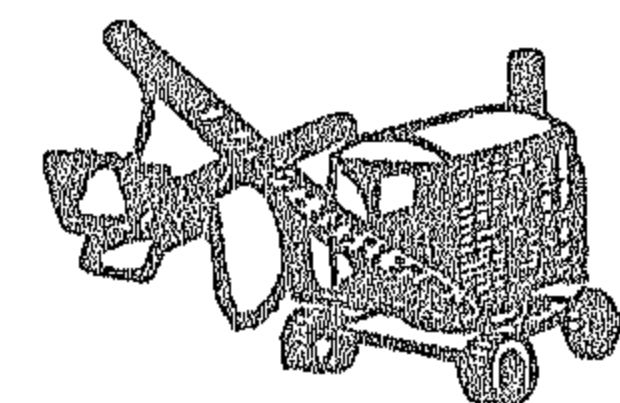
Lamar Dogg, head of the University of Georgia art department, has opened a one-man show at Atlanta's High museum.

Directors note an increase in the use of all state services offered Californians by the U. of C. extension division.

Four scholarship awards by the United Air Lines are being offered by the Boeing School of Aeronautics, Oakland, California, to undergraduates in U. S. and Canadian colleges.

Noble Cain, nationally recognized composer for NBC, will write a song to be dedicated to the Guilford College capella choir.

Steam Shovel



Historical incidents in the lives of Profs. ("Z-13):

PROF. HUNTLY let it be known to the junior mechs in lab lecture the other day that today's football games are sissy in nature as compared to the ones in which he played while in college. "We played two thirty-five minute halves, and if the timekeeper was pulling for the losing team, he'd stop his watch a few seconds before the game was officially over and the game would go perhaps twenty minutes over the regular limit, until the losing team put over a winning touchdown."

(Gosh but I hate to brag) but O. G. Erickson, Armour's swing king of the Glee Club, modestly asked for extra copies (around 150) of a recent issue of the Chicago Tribune, sporting a blurb about his accomplishment in writing Wave the Flag for Old Chicago. Quotes O. G., "I want them for my scrapbook."

What certain bass soloist (in the first row, fifth seat) of the Glee Club wore what looked like an American flag in place of a shirt to rehearsal last Thursday. His patriotism did not help his singing later in the evening. Could such a GAUDY display have intoxicated him that much? (Psst! it's Yeakle).

That big "CLICK" that you heard on Ogden field during a touchball game Thursday afternoon was NOT an advertisement for a magazine of the same name. Next time Bob Sweeney will remove his uppers before he leads with his chin as he contacts another player's knee. Having his mouth half open, he was unable to shut it for some time. When taken to the hospital, the interne passed on the brilliant remark, "You'll sleep it off—if you can get to sleep."

As a passing shot, we might as well mention the other and more glamorous side in the life of LEROY (ENTROPY) LINDGREN. Caught sneaking to his seat at the opera Thursday night with a bag of overripe tomatoes under his arm, and a cowbell in his pocket, all he could say to defend himself was, "It's a frame-up, and besides they wouldn't hurt much, they're too soft."

The men with the nets and the white coats have finally caught up with "Ho-Yo-Silver", conductor of the Slipstick. Ask Silverman for a collection of the best jokes that have ever been censored by any newspaper.

The real highlight of the A.I.E.E. trip, came when one, Leonhardi, a so-called electrical, asked whether the noise in the motors was caused by the lines of flux being cut or by the lines snapping back into position. Professor Reed might know, Lee.

H. C. ANDERSON WHO IS NOW ATTENDING M. I. T., SPENDS HIS WEEK-ENDS TRAVELING. IT ISN'T FAR—JUST FROM M.I.T. TO WELLESLEY. HIS HEART-BEAT HAPPENS TO ATTEND THERE WHICH PROBABLY EXPLAINS HIS LEAVE OF ABSENCE FROM ARMOUR.

Champs Resist Junior Elects Twice to Maintain Title

Basketball Squad Will Open Season Against Arkansas

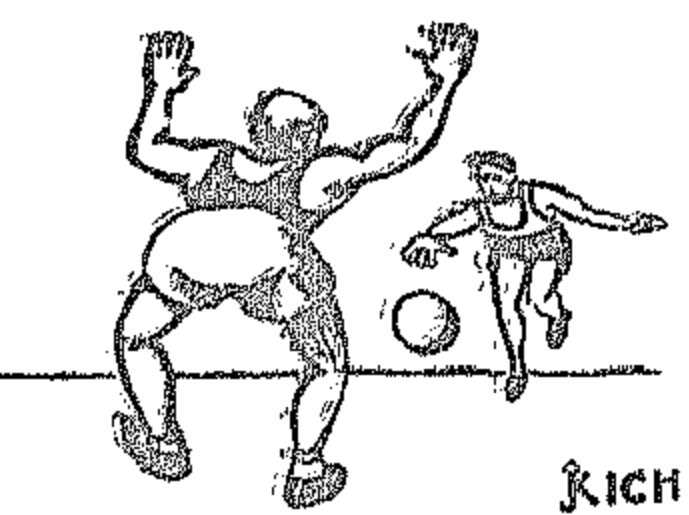
Injuries, Turnout Hinder Complete Scrimmage

Efforts to secure a cage battle with either Beloit or Ripon for the open dates of December 1 or 2 fell through last week, and so the Techawks plan to open their twelve game schedule against Arkansas State, Thursday, December 8.

With daily practice the custom, last week, Coach Stenger nourished hopes of getting the varsity in its entirety. Due to injuries, meetings and whatnot, the coach had yet to see the full team on the floor. However practice sessions have shown results although the first scrimmage didn't show up as well as expected.



Lloyd Norkus joined Johnny Eggers on the sick list when he found that the knee he hurt in touchball wouldn't hold up, and at the doctor's advice took a week's rest from practice. He however, rejoined the squad early last week and is catching up with the rest of the fellows. The other casualty, Johnny Eggers, has had the bandage removed from his nose and expects to work out this week although he will not be able to scrimmage for a short time.



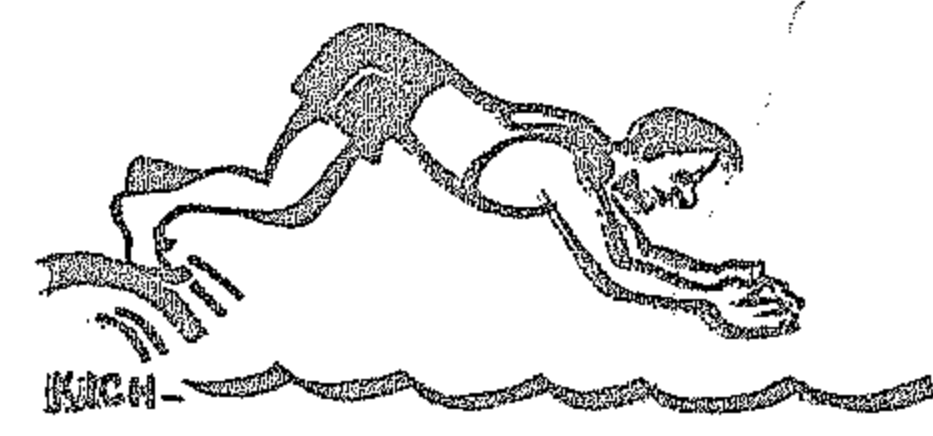
Two weeks ago saw the first cutting of the squad and about ten men were dropped. The remaining newcomers are still fighting hard for the few open positions on the squad. Present developments show few outstanding players among the new men, but the coach is confident he can develop at least one or two possibilities.

Co-Captain Swanson has expressed his pleasure with the progress of the squad and thinks the team is coming around in good shape. It might be said for Ed that he and Bill Scherer are, perhaps, the best conditioned pair of athletes on the floor.

Swimmers Turn Out; To Start Time Trials

With the wintry blasts again laying siege to the Armour campus, another sport comes to the foreground with the rapid approach of the swimming season. A meeting of the swimmers was held last Tuesday.

Announcing that the first meet will soon be held, and that probably with George Williams late in December, manager Roy Burman warned the men to start their time trials. Fortunately, most of last year's men have returned, and along with the veterans are several promising newcomers.



Included in the latest arrivals to the team are two experienced divers. Last year it was this event that caused a continual headache to the team. Also there are Tarnowsky, a backstroke man, and Heidenreich, who will do the longer distances. Coming back for their fourth year of competition will be Ray Dodge, Captain Winblad, and Vic Svagdis. These three have accounted for most of the points in all previous meets.

With all of the events seemingly now in competent hands, Armour should put out a strong team when the first meets are held. The squad usually opens its season in December but as yet no meets are definite.

Power, Let's Have Action

A SPORTS EDITORIAL

When the Armour Tech intra-mural delegates convene with those of the University of Chicago this week, they will face a problem more difficult than one of just setting a date. Coordination of two entirely different sets of touchball rules and styles of play will be the objective.

Whether the Techawks, represented by Tom Clark, Jim Fahey, Harv Rothenberg, and Willy Kruse, will get far with their set of rules is doubtful. The Midway has gone into some research in devising sensible rules which eliminate danger to inequipped and unconditioned players who have little experience in the safety techniques of power blocking.

Tech's legalized murder rules make little attempt to remove unnecessary danger. Because touchball implies touching rather than tackling a runner, Tech's rule-makers were short-sighted enough to let this theme alone form the backbone of the intra-mural touchball rules.

They didn't see that the entire purpose of such adjustments are to eliminate all forms of body clashing, or power plays which lead to injury. These include not only tackling, but equally blocking. Tech's rules are merely the results of a job half considered, half done.

There is a power in Tech's activity board, no less centralized and authorized than in perhaps any other college. In fact, all of this power is vested in the one A.T.S.A. Board of Control. This is an ideal set-up—one which we would like to favor—so long as it produces action.

There is nothing to prevent this organization from setting down the rules in black and white. Thorough foresight should be used, however. Provided the Midway board refuses to compromise (and it should refuse to degenerate into Tech's style of play), the aforementioned delegates will be making an intensive study of sane rules. If the Board favors conservation of energy, it could use this research to formulate the system for next year's play—following a bit of inspection by the Board to see that the delegates were not biased in preserving too many of the present rules.

Authorization of such a rules system would be a great advancement in our local intramural rules, which thus far have been characterized only by short-sightedness and negligence.

Chems Fight to Break Juicers Lead; Week Sees Hectic Play

Amid flying fists and bruising bodies, the Senior Chems maintained their undefeated record by routing the same of their rivals, the Junior Elects, 7-6 last Tuesday. The defeat was the first of the season for the Juicers and left the '39 Chems as the only undefeated team remaining in the championship race.

All of the scoring was crowded into the first half with the Juicers taking the first advantage. After several exchange of punts in the initial part of the half, the Elects' real break of the game came. The Chems, attempting a lateral back on their goal line, fumbled the ball, and the Juicers recovered, giving them a 6-0 lead. The try for the extra point failed, and this failure proved later to spell defeat for the '40 men. This was the second touchdown scored on the Chems all season.

In the closing minutes of the first half, the Chems struck unexpectedly, and quickly changed the tide. With the ball in their open territory, the Seniors with Rothenberg on the throwing end unleashed a long pass over the goal line into the waiting arms of Adeszko. The game-winning point was scored a moment later when the Chems were successful in passing over the extra point.

Bitter fighting marked most of the play during the second half. The Juicers were striving on every play to batter down their opponents and make a break for themselves. Several fights broke out between the opposing players, and at one time a riot threatened as both teams became swept away with the intensity of the struggle. Neither team was able to cross the goal line in the face of such strong opposition.

In the final minutes of play the juicers started a drive towards the goal, but their threat and the game ended with a well directed but incomplete pass into the end zone.

ELECTS REACH FINALS

In a closely contested semi-finals, the Junior Electricals came from behind to push across two touchdowns in the second half and set back the Junior Mechs, 13-6, last Thursday while both teams were placing their bids to play in Friday's final.

Opening with a fast running attack and deadly passing, the Mechs held

the edge in the first period. A pass intercepted by Clark of the Mechs, who ran it down to the 15 yard line, gave them their first scoring chance which they made good on a pass into the far right side of the end zone from Clark to Kraus. They were not so successful with the conversion as it was grounded by the alert secondary of the Elects.

Being on the short end of the score didn't affect the Juicers who came back early in the second half to score on a pass from Oldenburg to Shaver, who snagged the pigskin amidst three Mechs. They were unable to break the tie when the pass for the extra point was high and wide.

Not satisfied with a tie, however, the Juicers quickly chalked up another tally on a long pass from Oldenburg to Daum. Rehwaldt scooped the ball from just above the dirt for the conversion.

JUNIOR MECHS WIN, 10-0

Relying once again on the services of their star back, Jack Clark, the Junior Mechs decisively whipped an unorganized Soph Mech squad last Monday, 13-0. By this defeat the Sophs were eliminated from the tourney.

During the entire game the Sophs were unable to come within easy scoring distance of the Juniors' goal. On the other hand, the upperclassmen were continually threatening the Soph's goal. Long passes to Wolniak and Clark featured the Juniors' game during the first half. The first touchdown came from a pass to Wolniak from Clark.

Smashing runs and accurate passes punctuated the second half play for the Juniors. Midway in the second half Clark threw another long one that Epstein grabbed for the final touchdown. Wolniak scored the extra point on a short pass over the line.

For some reason the Sophs failed to start their scoring machine that had howled over the lorded Junior Chems a week before. As the final whistle blew the Juniors were again storming the Soph's goal.

SET NEW HIGH, 52-0

Sophomore firemen took it on the chin last Thursday as the Senior Chems administered a blistering record-breaking defeat with a 52-0 score. Harv Rothenberg, the all around per-

Schommer Speaker At Football Dinner

Eight former All-American football stars, two famous mid-western football coaches, four prominent Chicago sports writers, two popular Chicago sports announcers, and John J. Schommer, Dean of all football officials and former star of the early U. of C. gridiron, made up the panel of speakers for the University Club of Chicago third annual "Father and Son" Football dinner which was held last Friday evening at 6:30 o'clock in the Club at Monroe and Michigan.

"For the veteran of the class of '90 (or earlier) to the prospective hallbacks of 1940-50, the panel of speakers presented the inside dope on football," said John Schommer, chairman of the committee in charge of arrangements and toastmaster of the occasion. "The program," he continued, "is planned especially for the 'grandstand quarterbacks' to give them the opportunity of talking heart-to-heart with the speakers in round-table discussion style—to ask them questions and get their frank opinions on the football situation."

Wrestlers Start Against Morton

After weeks of practice, the 1938-39 edition of Armour's mat artists will test its strength for the first time when it clashes with Morton Junior College on December 2.

Last year the Armonrites traveled out to Morton and started a very successful season by outclassing their opponents 35-5.

Revenge will be in the heads of the Techawks, however, as Morton returned last season's opener with a closing meet that threw the sadly depleted and dethroned Tech squad on its heels, spoiling the Tech meet record with a 6-3 final standing.

The current wrestlers, under the head of Captain Tullgren and manager Ropek, should be able to compile a better record than last year's, since only a few men were lost by graduation, and new recruits show real promise.

Fraternity Division Winner Determined In U. of C. Tourney

Delta Kappa Epsilon snagged the Fraternity title at the University of Chicago last Friday as they downed the Alpha Deltas, 25-0. This closes the Fraternity division of the Midway conflicts, but Armour Tech's appointment is as yet undetermined.

Tech's Senior Chemicals will meet the winner of the playoffs between the three divisions, fraternity, independent, and dormitory, sometime in the next two weeks, provided plans materialize. Two Senior Chems, Willard Kruse and Harv Rothenberg, intra-mural manager Tom Clark, and Jim Fahey of the Junior Chems, were to meet with the intra-mural men of the Midway this week.

The essential object would be to iron out the differences between the two styles of play. Also the time of playoff, the field to be used, and other conditions were to be considered.

Delta Tau Delta, champ of the local fraternities, is slated out of intra-mural play here at Armour, it is understood, owing to some such rule which refuses to recognize fraternity touchball as intra-mural sport.

former, continued in fine style by throwing five touchdown passes—two to Willie Kruse, two to Ches Adesko, and one to Sig Moculeski.

The first touchdown was preceded by a play which almost could be used against Chicago. Willie Kruse grabbed one of Rothenberg's short passes to start festivities and then promptly lateraled the pigskin to Ches Adesko who turned on the heat behind Lyckberg's blocking.

Lyckberg made two of the many, and "powerhouse" Ryan made another on a dash through center. This represents a total of 48 points and to which was added a brace of extra points. Heroics being the order of the day, Ed Loutzenheiser wrenched a safety from his luckless opposition to bring the grand total to 52.

Senior Chems Find Juicers Stubborn; Repeat Title 13-0



By TOM CLARK

The touchball tournament of '38 is history. All that remains in the way of intra-mural athletics is swimming, soft-ball, bowling, track, boxing, wrestling, and basketball. The latter named, should be current now, but due to lack of facilities in the gym they have to be postponed. However, it is just that, a postponement, and these tournaments will be held as soon as conditions will permit.

This comes under the heading of ancient history, but just for the record the Senior Chems won the tournament, with the Junior Juicers runners up and the Junior Mechs third. From the looks of this year's tournament we'll predict that the present Junior Elects and Mechs will battle it out for first place next year, with the Soph Mechs as possible dark horses.

In winning the touchball tournament this year the Senior Chems leave quite a record for posterity to shoot at. They haven't lost a game in the two years they have won the tournament, with one tie game last year. They amassed a total of 287 points during this two year period as against their opponents' total of 31, nineteen of which are from last year. Last year they won after eight games one of which was a tie, this year they had to win eight straight before they emerged victorious.

Those who like facts and statistics may be interested in the following items concerning the touchball tournament: Eighteen teams entered the tournament, including every department, with one exception, and four freshmen teams. . . . Not a single game had to be called on account of rain, a remarkable stroke of good fortune, when it is remembered that for a week at a time rain prevented play last year. . . . The Senior Chems played the opening and closing games of the tournament. . . . The tournament took five weeks to complete, a total of 42 games being played which includes but one forfeit.

Surprise game of the tournament was the victory by the Soph Mechs over the Junior Chems, considered at that time potential winners. . . . There were only two tie games, and the Junior Electricals played in both of them. . . . Of the eighteen starting teams, three were eliminated after their first two games, seven after their third, two after their fourth, and six teams played five or more games. . . . Since the inauguration of the tournament there has been at least one freshman team entered each year which has called it itself the Flashes.

If all the classes that were cut to play a touchball game were laid end to end, you wouldn't believe it. And that's that for the touchball tournament.

In their own quiet way the rifle teams has been spreading far and wide the fame of Armour, having won two postal meets already this season. One of these was against Morton Junior College, against whom Sonny Weisuaann's grapplers open their season on the second of next month. For those who don't know, a postal meet is one where the teams remain at their respective schools to shoot and then each mails its targets to the others. It's all on the honor system.

Perhaps this might be a solution to the fencing team's difficulty of not being able to obtain money to travel to other schools for meets. Couldn't a postal fencing meet be worked out, where the teams stay home and do their fencing? (We hope nobody takes this seriously, even though Reh did.)

Grabacki, senior manager for

Rothenberg Intercepts Pass, Runs to Break Scoreless Tie

EIGHTH WIN OF YEAR

Senior Schmiers, long hailed as the potential '38 champs as well as the champs of last season, came through last Friday 13-0 over a stubborn Junior Juicer squad to win the second touchball championship and keep the title in the chemical department for the fourth consecutive year. It was their second victory over the Juicers during last week.

Because the Senior Chems were expected to breeze through the final week, the Juicers nevertheless reaped a moral victory. Friday's entire game saw a slight favor of speed, technique, and fighting spirit among the Juniors, who held and aggressed on their senior foes despite the Chems' advantage in height and weight. The Chems broke the scoreless tie toward the close of the game with a beautiful interception and field length run by Harv Rothenberg.

Juicer Trio Shows Fight

For the Chemicals, Rothenberg, Kruse, and Adeszko stood out, but they were no better than Shaver, Rehwaldt, and Oldenburg. It was Rothenberg's run that won the game for the Chems, but a passing combination of Adeszko to Kruse made the Schmiers a constant threat.

For the Elects, their trio showed more fight, grit and determination than has been seen on Ogden Field for a long time. Shaver was hurt twice during the battle but was still in there at the finish. Oldenburg, completely exhausted by his efforts, had to be taken to the hospital after the game. The Elects weren't the only ones to suffer. Rothenberg came up with a badly bruised finger.

The Chems received the kickoff to start the game but because of a hard charging Elect line, couldn't get anywhere. In fact, it wasn't till late in the first half that either team showed any threat. At the time Adeszko completed a long pass to Kruse that both Oldenburg and Ptak touched but couldn't hold.

Chems Checked at Goal

With three downs to make ten yards, the Chems were stopped completely and the Juicers took the ball. On the first play Kruse intercepted a bad pass by Rehwaldt but again the Chems were stopped on the threshold.

In the second half, the Juicers aggressed, and a long pass Rehwaldt to Oldenburg put them in scoring position. They couldn't gain, however, and on last down, they tried a pass with five men going out. Rehwaldt was rushed by Jaffee and Isaakson and his pass went short. Rothenberg took it on the goal line and out-raced Shaver to the other goal line for a score. The point was good on a pass Adeszko to Isaakson.

On the ensuing set of downs, the Elects were stopped at their goal line, and Shaver went back in kick formation. The pass from center escaped him and before an Elect could recover the ball, Moculeski fell on it for the score that put the game on ice. Oldenburg blocked the pass for the extra point. This preceded the close of the game by about two minutes time of long incomplete passes by Rehwaldt of the Juicers.

the basketball team announces a new system for the selection of basketball manager. In the past, two juniors would battle it out for the position, but this year a sophomore will be awarded an assistant-managership. After two years of this he will automatically become manager. Any sophomore who is interested in this proposition should get in touch with Grabacki immediately.

In closing we would like to suggest that touchball be completely revised next year, and that rules be adopted approximating those of the U. of C., where blocking or any rough body contact is not permitted. This would almost completely eliminate injuries, of which this year, as in the past, we have had too many.



By EUGENE WORCESTER

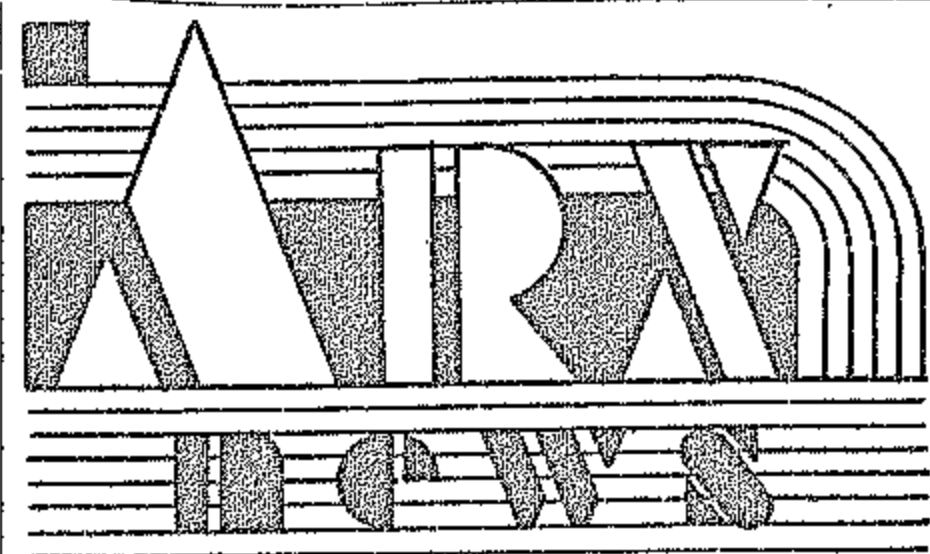
THE AMERICAN railroads evaluate themselves to the extent of upwards of twenty-six billion dollars. They represent perhaps, the greatest single investment in the country. Their equity is held greatly by insurance and banking firms which are in turn owned by individuals. They employ over a million people and pay wages amounting to almost two billion annually. Yet this colossus of industry is in an economically unhealthy condition. Burdened with extremely high fixed and operating costs, depreciation and competition further add to the railway's problem of trying to make ends meet. It were well to state that not all railroads are in the same bad condition; a few are making good profits, but on the whole their condition is weak.

SEVERAL SIGNIFICANT factors are contributory to the present predicament facing the nation's railroad executives. First, the low business level and contingent decreased volume of production has reduced the transportation demand. This factor is applicable to most every industry. With less production, there is less goods to transport. Further, with the immense drop in exports and imports there is little demand for the railroad and its facilities at the nation's wharves. A decade or two ago, when the railroads had a virtual monopoly of transportation facilities, their high rates forced the decentralization of large industries into district plants to cut down the price of the delivered product, of which the manufacturer felt too great a part included transit costs. This movement in industry greatly lessened the former transportable volume of produce and the number of railroad miles over which it was formerly carried.

THE INCREASED use of oil and gas instead of coal, and the transportation of both by pipe lines between the field and the consumer has left a large number of oil tank cars to rust in freight yards. It is more economical today for the manufacturer to distribute from district factories with trucking facilities than to operate from a large base and pay high railroad rates on long distance hauling. The tax, pension, and interest burden is of no small magnitude in the railroad budget either.

WHAT THEN can the railroads do to restore themselves to a financially healthier condition? One plan suggested, but presently abandoned due to union pressure and the report of the Federal Fact-Finding Board, is to cut all wages fifteen percent. The fixed costs of railroads are high. The army of executives and experts, operators and maintenance men which they employ, draws a large bi-weekly pay check. The capital frozen in equipment and property is tremendous. Undoubtedly, a 15% wage slice would reduce operating costs, but it would reduce the spending and purchasing power of a million families equally. Incidentally, \$1700 a year, the average railroad employee's salary, is far below the income quoted by Washington's experts as that necessary for a comfortable and normal being. The railroad brotherhoods threaten striking in the event of recourse to this policy, although their actually doing so is unlikely.

ANOTHER SURE aid would be an increase in business handled by the railroads. But how, is the question. The railroads are now operating far below their point of diminishing returns. Every extra car loaded is an added profit to them. Their lines and operators could handle considerably more traffic with little added effort or expenditure. An empty train is just as expensive to move as a loaded one, while road beds depreciate as quickly when not in use as when trains operate over them. A question of economics then arises as to whether an increased volume at a reduced rate of carriage would yield a greater income and consequent profit, than the present smaller volume at high freight rates. A drastic freight rate slash would win back much of the trade lost to trucking, but the return per loaded car would, of course, be less. One can't both have his cake and eat it. This principle might be applied to pas-



Big news of last week was the annual initiation of frosh into that great fraternal body, the Armour Architectural Society. 'Twas a gala occasion, just like all of the other Arx social events—we like ourselves, anyway, eh Arx?

Firstly, there was a sketch competition, which was very neatly done with juniors and sophs giving the sketches that certain umph! . . . Bluestein took off his pants and put on a very fancy red skirt under the gaze of a fellow female frosh. Stares proceeded to take his pants off in front of the same female Arx and when informed jumped backwards and away. . . . Big-shot Salzman took over the meeting when all ye Arx were outside. . . . Wheel-barrow race was very interesting, wasn't it, frosh? . . . Biedermann's team won. . . . The frosh practiced up on their swinging, Piper was some flat foot floogie; Bluestein in his skirt cut quite a figure with the boys. . . . The boys were very nimble in fountain jumping, succeeding in splashing onlookers. . . . Crowds on State Street were fascinated by the frosh's doings. . . . The paper rolling feat was very interesting and to look at the countenances of the citizens, I could see that this was their high spot of the day. Many a weary soul was, I suppose, spirited and able to carry on as a result of seeing our merriment. . . . At the banquet the sketches were given critics by some sophs in the best facetious manner. . . . Biedermann was Mr. van der Rohe; Miller, Rodgers (he says "no"); Mann, Dornbusch (very good except . . . the isometric doesn't show construction); Stowell, Mell (well, son); Pointek, Hilberscheimer; Alschuler, Peterhans; Blum, Harper; Salzman, Kreihbiel. . . . It was the high spot of the entire banquet. . . . Speyer was presented his prize in the Scarab sketch competition. . . . He was asked to say a word by Rea; he was very gracious and said four words: "Thank you very much!" . . . One of the profs began his speech: "I don't know I think!" is zat so? . . . Toastmaster Mandel read a list of the new Scarab program of their activities for the mutual benefit of the entire student body of Arx. . . . Singing and beer topped the banquet off.

Overheard: "Who called that shoe-leather a steak; why insult the cows, they have enough to worry about." BOZ-ARTS.

senger rates as well, where bus lines and now the airplane are dividing the profits.

THE THEORIST offers a broad reorganization plan whereby all the railroads would be consolidated, and under Federal jurisdiction and management, somewhat as they were during the war, and would be in the event of another war (which we all hope will not present itself). A plan would, of necessity, needs be devised to equally distribute the equity of the consolidated roads among the present bond and stockholders of the individual roads. Excess roadbeds between terminals would be retired, thus reducing the reader's overhead now plaguing competing companies between cities where one road bed would suffice. Chicago and St. Louis make an excellent example. Trains would not run empty one way and half empty on return. Old employees would be at once retired and supported with a pension from federal funds. Rates would be stabilized and equalized. Such a plan as this is outright socialization of the railroads. There are objectors to this plan and they have numerous supporters in the banking and insurance interests.

THE RAILROAD problem is a very present and great one, and whether the government intends to subsidize them with a very low rate loan of a billion or two, is still to be seen. No doubt, an increase in business activity and an advisable rate reduction price policy by agreement of the unions and the railroads, will offer a temporary easement to the situation.

Vagtborg Journeys To Eastern Cities; Visits Many Firms

Carrying its members throughout the country during the past month, the business and activities of the Research Foundation show clearly the nation-wide scope of its contacts. The east and middle west have figured most prominently in the dealings of the Foundation, but concerns as far west as California have shown a desire to become associated with it.

Confers with Mellon Institute

A good deal of the traveling has been done by Mr. Vagtborg, who in consulting with firms, attending conferences, and visiting various schools and institutes has gone to New York, Pittsburgh, Columbus and Detroit within the last month. The New York trip concerned a possible new subscriber, the Continental Carbon Company. The problem of where to obtain new personnel of a caliber high enough to meet the demands of the long term projects to be conducted, led him to Pittsburgh where he conferred with the Mellon Institute of Industrial Research, a contemporary organization which has been doing research work for twenty-five years, and with Carnegie Tech. From there he went to Columbus, Ohio, where a similar discussion took place with the Batelle Memorial Institute and Ohio State University.

In Detroit Mr. Vagtborg attended a meeting of the American Engineering Council which was conducting a forum on "Research Inventions and the Engineer." The purpose of this gathering was to get the views of engineers, research men, and patent attorneys on the proposed changes in the patent laws and to give these views to the government as an opinion on the matter.

Peebles Attends A.S.T.M.

Mr. Peebles, head of the insulation laboratories of the Foundation, is going east to Pittsburgh next week to attend a meeting of the insulation committee of the American Society for Testing Materials at the Mellon Institute. Dr. Jakob, heat transfer laboratory head, goes to Lafayette, Ind., on Nov. 31 and Dec. 1 to give a series of special lectures to the faculty and students of Purdue.

Dr. Poulter talked before a large audience of W.S.E. members on the subject of "Research In Extreme Pressures." He explained the results and problems connected with the work and described the experiments he has performed.

A.I.E.E. Visits Wisconsin Steel Company On Inspection Trip; Examine Controls

Last Friday, Mr. J. H. Miller of the Wisconsin Steel Company delivered an address to the A.I.E.E. in preparation for the inspection trip in the afternoon. Equipped with complete blue prints of the mill, Mr. Miller was able to give the electricals a good idea of the layout of the plant. He also discussed the engineering problems of the rolling mills and their solutions at the Wisconsin plant.

The inspection trip in the afternoon was attended by practically all of the junior and senior electricals. The faculty was represented by Dr. Reed. The trip started promptly at 1:30 and lasted almost four hours.

Techawks were first shown through the coking plant where Pennsylvania coal is converted into blast furnace coke. The by-product recovery plant was the next subject of interest. Even the calloused electricals then admitted there were some points to chemistry.

The blast furnaces were then shown the visitors. At this point some senior found a "constant torque" motor and proceeded to mystify the more ignorant members of the electrical class with a discussion of this piece of machinery.

A blooming and rolling mill proved to be the most interesting part of the trip. The 3000 k.w. motors and their crackling relay racks made all gasp in astonishment. The payoff came when the large motors were brought up to full speed and then reversed in a few seconds. These motors were used in the plant to drive the rollers which move three to five ton ingots down the mill.

The last half of the group was treated to a special show when a two ton, \$1500 roller broke. The half hour necessary for repairing the damage was well spent in examining the mill.

Harvester Co. Shows Deisel Film to Mechs

Following a short business meeting last Friday at 10:30 in Science Hall, a three reel movie was shown to the A.S.M.E. The movie, loaned by the International Harvester Co., was composed of the following parts: the first, "Earth Moving" depicted man's struggle against the forces of nature in moving earth from place to place. It dealt chiefly with the difficulties encountered in road building and the hazards overcome in land leveling. Before a road is built the land must be cleared and leveled. Powerful tractors are used to clear a path through wood, across plains, and over hills and mountains. The road bed itself is leveled off and the excess dirt and rock is carried away in large trucks.

The second part, "Profitable Power" showed how power may be used to lighten man's burden. The chief means of power were Diesel engines. Some of the things for which they were used were, running amusement units, refrigeration units, for purveying water for irrigation purposes, and for propelling boats and locomotives.

The third reel, "Power for Oil Wells," was the story of the source of modern heat, light, and power. It showed the work which must be done in order to obtain oil. First of all, the land must be cleared and slush pits must be dug. Then the shaft for the well must be drilled through hundreds of feet of limestone and bed rock before reaching the oil. Finally, the well is "blown" and the oil is ready to be pumped.

The oil is pumped from the wells and is shipped across the continent in pipe lines which are buried beneath the surface of the earth. The trenches for these pipe lines are dug by various earth moving machines. Most of the machines used for furnishing this power are run by Diesel engines and are an economical means of accomplishing wonders.

Before the movie was shown, president P. F. Henriksen announced that a smoker was being arranged by the juniors. "This smoker," he said, "will take place before the holidays, as is the custom for the A.S.M.E." A call was made for student speakers, and any one who is interested in presenting a short talk should make arrangements with H. C. Soukup.

The inspection trip to the Hot-Point Co. last Thursday was attended by thirty seniors.

Stoopbrain Super-Stars in Opera and Auto Show; Praises Curves of Models

By ART HANSEN

Deer Sally,

Happy Halfwit, eminent goon, wonce asked of Apellia Core, a like ditto, quote—who wuz that tunnel I saw wuz withe laste nite?" "That wuz know tunnel," shea replied, "that wuz my husband—he's a bore."

Wel, the oughto show waz las weak and I had a gud time thiz yeer az I did laste yeer. I stil remember those graceful bodies withe well-rounded curves, shining lamps, swel paint jobs and surging power of—those gals hoo demonstrated at sum of the exhibits. They were keen, and thee knew models thiz yeer ought to bea keener—the cars I mean. Sumthing knew thiz yeer iz overdrive and drive over. I think that the overdrive iz on the cars, because the girls ovr the wons that say—"drive over and sea me sumtime. Brink the Cadillaccard." There new hairdress iz shure crazy—on the womins haid, I refer to. Anyway, its awl crazy—but nice work if yew can get it.

Wel, withe the long awaited Student Union almost completed, the lunch rume wil bea shifted from itz skyscraper Blue Rume down to the lower level of the Ynion building. I hope their policy iz slightly altered, because I heerd sum fellows muttering that wonce a toasted cheeze sandwich had cheeze in it, but now—. Also, the phrase "tissue-thin" originated in the Armore Tech lunch-rume wear it iz incorporated in its policy. Another fellow exclaimed that the milk muste hav just cum from the cow, it wuz stil warm. Another sed that hea wished they wuld just put labels on the tee and cofee spouts, so hea could tel wich wuz wich, but that it didn't reelly matter

az hea culdn't tel won frum another anyhow. Wel, wea live and . . . The championship skool touchball team is going tew play the U. of Chicago champs—but I suggest they play their regular football team. The Armore touchbawl team blocks and passes. So do the Chicago Maroons. The Armore team scores. So does Chicago. Armore wins games. But Chicago ?!?!

Wel, deer little wild mountain rose, Thanksgiving wil sune bea hear—next weak in fact. Wonce agin wea honor our forefathers, giv thanks fore ovr blessings of the past yeer, and as usual, stuff owrselves withe stuff. Tew bad thousands of innocent little turkeys muste bea slaughtered. And ducks, and geese. Gosh, geeses ovr funny little animals. Reminds mea of the olde days wen I used tew goa hunting withe yew and Ethebelda. Wat a sweet girl shea wuz. She reminds mea of that poem—"A woodland dell, a maiden bare; no wonder Old Sol likes to glare, unquote. However, moste womin are more like—"Ashes to ashes, dust tew dust; If it weren't for paint, womin wuld rust."

Among other things, my latest fad iz super-ing at the opera. They cawl us supers cause wea are super, I guess. The other nite I wuz on stage at the Chicago Civic Opera. Suddenly, the whole house started to applaud. And then darned if sum guy naymed Torrence Bibbett didn't stand in front of mea and start to sing. Of course the audience realized my excellent performance and although I wuz hidden by thiz guy they continued to clap. (Hm-m, kum tew think of it, those Philadelphia balley danzers weren't bad).

Wel, must close, Yures, Stoopbrain Bliss.

Opening of 'Journey's End' Announced for January 6

Final date for the production of *Journey's End* has been set for January 6 by M. G. Christopherson, director of the Armour Players. Since the play has a running time of two hours it will be presented in the evening, rather than at 10:30, Friday, as were productions of the past. Tickets will go on sale at a moderate price, following the Thanksgiving vacation.

The dramatists were fortunately able to cast characters to type and also obtain many good actors. Several men cast in leading roles are new to the stage of Armour and are showing their merit at the many rehearsals that have been held.

While the acting end is progressing very rapidly, stage construction has been delayed since the stage is not available as yet. Most of the work in this direction has been done in the way of collecting properties and discussing layouts.

LECTURES—

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general determinants. The only non-trivial applications were discovered by Dr. Oldenburger, and were published in various mathematical journals, in particular, the last issue of the Transactions of the American Mathematical Society. Recently he found that three dimensional determinants arise automatically in a simple way in a study of ordinary determinants. He is giving a report on these results in a paper to the American Mathematical Society on November 25, in Cleveland, Ohio. An extensive study of these determinants is now being made at the University of Kiev, U.S.S.R.

In his second lecture on November 17, Dr. Oldenburger discussed the "Geometric Aspects of Symbolic Dynamics" and showed how the mathematical physicist treats the word "motion." The modern study of dynamics was started by Poincaré, brother of the French Premier and one of the greatest mathematicians the world has ever known. It was continued by Birkhoff of Harvard, Morse of the Institute for Advanced Study, and others. The most recent point of view was developed by Morse.

All of the lectures in the series are open to all students in the institute, and they are invited to attend.

Senior Committees to Discuss Bids This Week

The announcement committee composed of R. E. Dixon, R. I. Jaffee, C. V. Peterson, W. A. Wagner, C. W. Reh, W. A. Ryan, and R. A. Winblad met last week for the purpose of electing a chairman. After several trial ballots R. E. Dixon was elected.

A list of possible manufacturers for the announcements were suggested by the members of the committee. These manufacturers will be contacted by the members in about two weeks. Another meeting will be held today at 12:20 in Room B Main where the specifications from which the manufacturers will present their bids will be tentatively outlined.

The jewelry committee, composed of A. M. Zarem, chairman, R. B. Boertitz, S. P. Finnegan, D. W. Jacobson, B. F. Oswald, J. J. Ratto and R. R. Tullgren, held several meetings last week to discuss the different samples submitted by the various firms. The rings will be similar to last year's rings due to the fact that Armour's ring has been standardized. The plan of the committee is to improve the quality, if not the design, over previous years.

Keys will also be on sale this year, as has been the practice in former years. Student preference for a ring or a key seems to be split about evenly, so the both are being made up for approval.

NEW SOCIETY—

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be gained is through technical publications or public lectures of this sort. The broadened purpose of the Western Society of Engineers would in no way conflict with the workings of the present societies. As suggested by one of the speakers, the slight expenses of an enterprise of this sort could be covered by an assessment on each of the engineering societies at Armour.

In addition to these points, the various advantages of supplanting the W.S.E. by the A.S.C.E. were discussed at length. One of the advantages mentioned was the fact that the most important schools in the United States are numbered in the student chapter roll of the latter organization. These schools include M.I.T., C.I.T., Purdue, and Case School of Applied Sciences.