



SENIORS TO GET JACKETS BEFORE CHRISTMAS TIME

Take Senior Pictures, Jewelry On Display SENIORS SATISFIED

All senior committees have met, and most of them have taken definite steps to bring their work to a climax. As a matter of fact the jacket committee was able to write final on their own particular job last week when fittings were taken of the seniors desiring jackets. Fifty-six seniors have ordered jackets so far, and delivery is expected before December 12. For the benefit of seniors who decided later to buy jackets, a final measurement will be made today in the assembly hall from 12:00 to 1:00 o'clock by a representative of the manufacturer, A. G. Spaulding and Bros. An effort will be made to secure the jackets ordered at this time before the Christmas holidays.

Jackets Are All-Wool

All those who saw the jacket agreed that it was a "knockout" and a bargain at the Spaulding price of \$4.60. The jacket consists of black 100% Melbourne wool—regular overcoating material, fairly heavy. It has a two-button front, a single piece belt in the back, two front pockets and an inside pocket. A six inch AIT monogram with '33 numerals—gold on a red background—will be sewed on the left side at about breast height.

Photographs Being Taken

The photograph committee announced that the Bloom Photographers will handle the senior portraits. Seniors have already made their appointments for sittings, putting the finishing touches on the work of this committee also. The display of the photographs may be seen in a case adjacent to the treasurer's office in the main building. Prices are extremely reasonable. For just the photo required by the Cycle the price is \$2.50, so it behooves the seniors for a very little more to order the finished photographs. The pictures will be furnished showing the man in either civilian clothes or cap and gown, or both.

Jewelry on Display

The jewelry committee has selected the Josten Company to supply the rings and keys. Seniors will have a choice of three rings and two keys ranging in price from \$5.50 to \$2.50. The rings will be made from gold, gold overlay, and sterling silver, while a choice of gold or sterling silver will be offered in the keys. In all cases the emblem AIT '33 will appear on a black onyx background, but the rings present the additional inducement of department symbols on the shank. Samples of the jewelry should appear this week and will probably be exhibited in a case near the photograph display.

Caps and gowns, and announcements are not pressing problems and these committees have not found it necessary to make any arrangements so early in the school year. Most likely the companies which handled these items in previous years will be given the contracts again.

A.T.M.C. to Have Annual Smoker

A smoker for the members of the various musical organizations will be given on Thursday, December 8, at 8 o'clock, at the Sigma Kappa Delta fraternity house. The smoker is being held under the auspices of the Armour Tech Musical club; a representative body of the different musical clubs, and is the first of its kind this year. An invitation to the smoker has been accepted by Dean Heald, who will be the guest of the evening. Prof. Leigh, faculty advisor of the musical club, and Mr. Erickson, newly appointed director of the orchestra will also be present.

ALL TRY OUTS FOR CHEER LEADERS TO BE HELD TOMORROW

Tryouts for cheer leaders will be held tomorrow at 11:20 o'clock in the Assembly Hall. All men interested are requested to attend. A complete organization of cheer leaders is considered essential for the promotion of athletics and it is for this reason that its organization has been taken up. All men accepted as a result of the tryouts will have an opportunity to show their abilities in a pep meeting to be held on December 13.

Members of the committee which is sponsoring both the pep meeting and the tryouts for cheer leaders are the following: George Nelson, chairman; E. H. Sadleman, G. J. Beemsterboer, L. G. Rowman, J. J. Ahern, J. L. Roberts, J. W. Linschaber, and G. W. Ormsby.

Work of '33 Cycle Progresses Well

Work on the 1933 Cycle is progressing rapidly under the leadership of Carroll K. Simons, editor-in-chief. The senior biography blanks were distributed at the senior class meeting and should be turned in as soon as possible. The biographies include information as to the extra-curricular activities of the student, his department, and his high school, together with other high points of his four years at Armour. Seniors who have not procured blanks may get them at the Dean's office. Sittings were started at Bloom Studios last Wednesday and should be completed by December 9. Students are urged to have their pictures taken before this date, thereby cooperating with the Cycle staff. Contracts for the engraving and printing work will soon be let.

MOOD INDIGO WINS SCHMIER TROPHY FOR WINOGROND

By ORVILLE T. BARNETT

And this week it is our extreme pleasure to present Milton J. (Blue) Winogrand for your approval. In the first place his spontaneous reduction blues up all over the senior class lab. But to add to his misery his product, so some organic substances have the happy faculty of doing, doesn't agree with him. Every time Winogrand breathes in his material, his lips turn blue; his fingernails turn blue; the product is blue; it turns a blue haze in the air; and his yield went all bluey.

But in a noble effort to remove the stain (Did I tell you his hands were stained blue?) lots of cheer from an extraordinarily cheerless situation, the senior class presented him with the schmier chemist trophy last Thursday while the laboratory was filled with a dense blue smoke.

In order to ease the climax when Winogrand returned home that night, he felt even bluer upon discovering that his application for employment in a Blawie Company had been rejected.

And so he finished the day by turning out his lamp with the blue lampshade, by putting on his blue pajamas and by going to sleep under his baby blue blanket. Awakening the following morning, he was astounded to find that the sky was what?—of course—BLUE!

Civils See Picture at Recent Meeting

"Reinforcing bars, rolled from old railroad rails," was the title of the film shown at the W. S. E. meeting last Friday morning. Mr. Owens represented the Calumet Steel company and answered all questions pertaining to the film. Earl G. Beard opened the meeting and announced that a smoker would be held on Wednesday, December 14.

Large Crowd at Senior Informal

All expectations for a successful dance were fully realized when the Senior Informal was held in the Cameo Room of the Morrison Hotel last Friday evening, December 2. A crowd of approximately two hundred couples attended the affair and danced to the rhythmic strains supplied by Maurice Sherman and his band.

One of the pleasant surprises of the evening's entertainment was the beautiful dance program given to each couple. It had a red leather cover upon which was placed a gold "A" monogram. A black leather inside cover completed the Armour colors.

Another of the evening's highlights was the singing of Jon Fiodike, the drummer boy. His hitting tunes were received with favorable comment by the audience.

Professors Heald, Spears, Grafton and Humbley, and their wives accompanied the affair, but missed none of the evening's enjoyment.

All were loath to leave when the hands of the clock indicated the parting hour of one o'clock.

PLAN TO START TOURNAMENT FOR CHESS PLAYERS

The Armour Chess Club was formed last semester to group together those students who are interested in chess and who wish to continue this interest by meeting and playing with other chess enthusiasts. Three meetings have already been held this semester. Thursday afternoon at three o'clock in the Campus Club rooms has been decided upon as the regular hour of the weekly meetings. A large number have turned out for the meetings and more are expected to join. The club is open to anyone interested in chess. The signing of the tournament notice posted on the north door of the Campus Club rooms automatically makes the signer a member of the Chess Club and thus entitles him to all the privileges of the club.

Equipment Purchased

A small assessment was made at the meeting on November 17 and the necessary chess equipment was purchased and is now ready to be used. Many men have already taken advantage of this and now games may be seen every afternoon. Official handicaps will not be assigned immediately due to lack of time. The tournament is scheduled to start this week and to continue until every member has played. The winner of each group will then play the winner of another group until only two men remain. These men will then play and the winner will be proclaimed the Chess Champion of Armour.

There are thirty-two Charter Members of the Chess Club including Professor Enck who is the faculty advisor of the club. Professor Enck was instrumental in forming the chess club at Armour and has shown his interest in the club by many helpful suggestions.

Ted Irion Named National Officer

The Scarab Convention was a huge success. That is how the delegates from Edou Temple of Armour put it upon returning from St. Louis last week.

The Armour delegation secured the Convention for Chicago in 1933 and were honored by the Convention in having Ted Irion elected to a national office as the Director of Activities. Edou received more laurels in the form of an Honorable Mention to George Terp for his water-colors exhibited in the Traveling Sketch Exhibit.

On the return trip, the delegates were shown through the State House at Springfield, visited the Lincoln Tomb, and made a hurried inspection of the Architectural building at Champaign.

SENIOR CHEMICALS TO HOLD DOUBLE INSPECTION TRIP

The Central Chemical Company of Hammond, Indiana, and the Grasselli Chemical Company of East Chicago, Indiana are to be the two points of interest on the senior chemical inspection trip Wednesday, December 7. The Central Chemical Company will be inspected in the morning, dinner will be eaten in Hammond, and the Grasselli Chemical Company will be inspected in the afternoon.

The preparation of hydrochloric, nitric, and sulphuric acids will be witnessed, also the preparation of the heavy chemicals such as sodium acetate, radium phosphate, Glauber's salt, sodium sulphite, and sodium thiosulphate. The methods by which commercial and chemically pure acids are made will also be seen.

Acid an Industrial Barometer

The acids and heavy chemicals enter into the preparation of so many products that their consumption is to a large extent an indicator of the general industrial activity of the country. The industrial barometers used mostly are the box car loadings and the melted orders in the steel industry. The general trend of business in the country is followed in this manner because practically every industry makes use of them. The uses of sulphuric acid are so many and the output so great, that it is as good an indicator of industry as any. The establishing of the output of chemicals as an industrial barometer shows the importance that chemistry plays in the manufacturing field.

Beard Delegate for Chi Epsilon

Chi Epsilon, honorary Civil Engineering fraternity, held its biannual convention November 18 and 19 at Pennsylvania State College, Pennsylvania. The Armour Chapter was represented by Earl Beard, its president. The delegates from the West assembled at Chicago, and went en route to Tyron in a chartered Pullman, then by bus to State College. The delegates were met by Penn State members of Chi Epsilon who found lodging for their guests at the various fraternities.

Friday evening, November 18, a smoker was held at one of the many luxurious fraternity houses of Penn State, where all the delegates became acquainted with each other.

Banquet Held in Evening

The convention opened Saturday morning. At noon a tour of the campus and an inspection of the hydraulics laboratory was conducted. After lunch, the convention was resumed and continued until 5:30 o'clock.

A banquet was given that evening at a hotel and was accompanied by speeches from the head of the Department of Civil Engineering at Penn State and by the newly elected officers of Chi Epsilon. A dance was given at the Triangle Fraternity house after the banquet.

All delegates were of one opinion; that the convention had been a success in every way, due largely to the careful planning and to the cordial reception tendered them by the Penn State brothers.

Armour Men Install Marquette Honorary

The installation of the Beta chapter of Wisconsin of Tau Beta Pi, at Marquette University, was conducted by the Armour members last Saturday evening. The national secretary-treasurer, Professor R. C. Matthews was the presiding officer at the installation.

Professor Spears, the faculty advisor of the Armour chapter together with all the active members made the trip. A banquet followed the installation.



GEORGE A. KETCHAM

HONOR "A" SOCIETY PREPARES FOR ITS ANNUAL BANQUET

Armour's Honor "A" Society will hold its annual banquet on Thursday evening, December 8, at seven o'clock. The scene for this occasion will be the ever popular Blackhawk Restaurant.

In addition to the dinner, the music of Hal Kemp and his orchestra combined with a splendid floor show will furnish everything in the way of amusement for the pick of Armour's athletes. The main speaker of the evening will be Professor J. J. Schommer.

Society Promotes Athletics

The Honor "A" Society was created early in the year of 1914 and is one of the oldest organizations at Armour. Although it was originally organized for the purpose of governing all athletics on the campus, it has been replaced in that capacity by the Armour Tech Athletic Association. At the present time it is maintained strictly as a society for Tech lettermen and devotes its interests toward the promotion of athletics. The members of the society wear small gold "A" charms as a mark of distinction.

Medal Presented to R. D. Armsbury

The A. I. Ch. E. at its meeting last Friday morning, presented its medal given to the man possessing the highest standing in the freshman chemical class. Richard Armsbury received the medal this year, the presentation being made at the beginning of the meeting by Professor McCormack. Armsbury's average last year was 95.7. The fact that Dick is a member of the Armour Tennis team and is on the News staff makes his scholastic achievement outstanding.

Dr. Clarence W. Muehberger, consulting chemist of the Scientific Detection Bureau of Northwestern University, spoke on industrial poisons. He also answered the questions of his hearers.

The A. I. Ch. E. will have a smoker at the Phi Kappa Sigma house, 2236 Michigan Blvd., Wednesday, December 21, at 7:30 p. m. Membership cards will be required for admission. Several inspection trips for the holidays are contemplated. An inspection trip to the Molded Produce Corporation, 2145-53 Walnut St., will take place Wednesday, December 28, at 2:00 p. m. Those who wish to come should sign up with Vincent Galvani or Allen Helmick, and meet at the plant at the specified time.

There is a probability of a trip to the Central Scientific Company being arranged. This will be discussed at the smoker on December 21.

HAMPTON PREXY VISITS ARMOUR

Doctor Arthur Howe, President of Hampton Institute, Hampton, Virginia, visited the Institute November 20. He was very much interested in the Armour Development Plan and took with him copies of our various booklets and pamphlets.

ARMOUR MOURNS PASSING AWAY OF GEORGE KETCHAM

Sudden Death Follows Report of Improved Health A MODEL STUDENT

It is with deep regret that we note the passing of George A. Ketcham on the evening of Monday, November 28. Death came unexpectedly, as his condition had been considered improved earlier in the afternoon. The direct cause was pneumonia, which set in a week after George was taken to the hospital for an injury he had sustained.

First Year At Armour

Up to the time of his incapacitation, George was very active both in and out of school. In spite of the fact that this semester was only his second at Armour, he having entered in February, 1932 with two years' attendance at Crane Junior College to his credit, he was well known and liked by his fellow classmates, the junior civils. An one of the stars on the junior interclass basketball team, he played the game so well that it was generally considered that he would earn a letter as a member of the varsity basketball squad.

Was An Excellent Student

Although George was born in Michigan City, Indiana, he received the major part of his education in Chicago, where he lived for the past fourteen years. He won acclaim at Parker High School for his prowess in basketball and he kept in physical condition by playing on his church team and with other organizations. However, basketball was only one of the sports in which he indulged. Not only did he keep himself in perfect physical condition, but as his grades indicate, he was an excellent student, desirous of developing a keen mental aptitude.

Had Many Friends

That he made a success of life is attested to by his many friends at school, in church, and in the neighborhood; despite the fact that his life was comparatively short. His popularity among the members of the Park Manor Congregational Church was such that his absence from services which he had attended regularly for the past four years, was noticed immediately when he first entered the hospital. Similarly, he was missed at Armour to the extent that he was continually visited by his classmates, who expected to see him back in school within a short time.

The funeral services were held last Thursday at the Park Manor Congregational Church and interment was at the Mount Greenwood Cemetery. The members of the junior civil class attended the services to bid adieu to their friend and fellow student, George Ashley Ketcham.

As a parting thought, we send our deepest sympathies to his parents, Mr. and Mrs. Fred H. Ketcham, his brother Frederick, and sister Lola, and to all his friends who mourn with us.

A. S. M. E. Discusses Elimination of Shops

Student members of the local branch of the A. S. M. E. met last Friday in room D Mission and discussed the possibilities for eliminating or modifying the present program of shop work.

The meeting was open to general discussion, and all those present participated by offering suggestions. At the motion of a member the A. S. M. E. went on record as favoring a partial abolition of shops and a change in teaching methods.

The plan which is used in Harvard University was discussed. This system is substantially a demonstration course, in which the instructor does the work and the class looks on.

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GEORGE KETCHAM

George Ketcham has passed on to the finest game where God is the Referee. A student, respected by his instructors and classmates alike, has started the journey a short time ahead of the rest of us. But he will ever live in the hearts of those who had the privilege and the pleasure of knowing him both at work and at play.

Times such as these make meanings difficult of expression and give one cause for wonderment. Faith in the keynote of the teachings of Amos will make our sorrow lighter: "God is Justice."

Be Considerate

Again we are forced to speak of the deplorable condition in which the drafting rooms in Chapin Hall are left at night. All the chalk in creation seems to be finely powdered and spread over every square foot of floor area in these rooms. The woman whose job it is to clean these rooms at night is an elderly lady for whom this additional mess is no comfort.

The next time you are tempted to get the fellow four rows ahead of you while he is bending over his board think of the trouble you are creating for this poor woman who has done nothing to merit the annoyance you will cause her. Let's all co-operate to keep ourselves and our fellow students from making the work of the scrubwomen any harder than we absolutely have to make it.

O. T. E.

Those Little White Slips

Now that the falling notices have all been distributed it is time to reflect upon our past sins. The best manner in which to accept this notice is to take it as a challenge. It is a statement to the effect that the instructor does not think you have done passing work in his course. Show him that you can.

The semester is little more than half over. It is almost mathematically impossible for a man to be so far behind as to be unable to receive credit before the end of the semester. Have a talk with your instructor and discover the reason for the falling notice. Iron out your difficulties and promise him personally that you will see to it that your average goes up. Your instructors are human and they will appreciate a sincere effort on your part of which they have knowledge.

O. T. B.

"The Slipstick"

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

SO WHAT?

Again old dame rumor has been whispering in our ear. Word has been traveling about that within a few days something is going to transpire at Armour that has not happened around these parts for almost a score of years. Coupled with the rumors of this impending activity and the bid for cheer leaders we have a slight premonition that it is going to be our privilege to witness an event here at the dear old Institute the like of which we have never seen. It is even said that we will be able to forget classes for awhile so that all the Armourites can follow the band over to the Army to see the basket handlers open their season. Let's hope that this is going to be a reality so we can give the hoopsters a great sendoff.

WEAKLY DUMBBELL POEM

The bushy-haired blackhead,
With loads of lumber on his head,
Couldn't even build a fence,
With his one splinter of potential arm.

KNIGHT OF SAINT ELMO (to Joe the elevator boy)

Suppose my face is dirty; what business is that of yours, you ain't my father.

Joe: No, but I'm bringing you up.
The Singing Fool.

Beginning of An Engineer

John—"Say Bill I hear you haven't a car any more?"
Bill—"That's right."
John—"How come you got rid of it?"
Bill—"I drove it in the lake to see if it really had that floating power they talk about."
—W. E.

Fraternity Blah

"Blah is an idle talk," said the freshman as he leaned over for another whack.

"Was there a large crowd at the Froam last night?"
"Not under our table."
"That's right! What kind of a party was this, certainly not one that was ever held at ARMOUR."

MINUTE PHILOSOPHY

Even though there is a sacker been every minute, it is hard to find one that has anything worth while to take away.

The dimmer the porch light the greater the scandal power.

We all make mistakes—that's why we have tabloid newspapers.

And nowadays the week shall inherit the rubble seat.

It has been observed that in giving 1000 in hurts, some people are extremely sensitive to pain.

Have you heard about the very, very rich Scotchman who looked his face in his hands just before he died so that he could save funeral expenses.

"Unmarried?" inquired the passport clerk of the American movie queen.
"Occasionally," replied the film star.

Prof. Scherger: I am exceedingly pleased to see such a dense crowd gathered here for our first lecture.
Voice:—Don't be too sure. We ain't no dense at you seem to think.

WHY WORRY

Wife:—My debts have me so worried I can't sleep at night.
Wage:—Then how do you keep going?
Wife:—By sleeping in the daytime.

Better Late Than Never

A woman paid the shopkeeper the last installment on the parambulator that she had purchased some time before.

Shopkeeper:—And how is the little man getting along by now.
Woman:—Oh, he's alright. He's getting married next week.

She: Before we were married you used to call me your treasure.
He: True, but now I'm sorry that I dog you up.

A steamship company once wired to a captain of one of its ships:

MOVE HEAVEN AND EARTH STOP GET HERE FRIDAY STOP.

The next day the captain flashed back the following pepy:

RAISED HELL STOP GET THERE THURSDAY STOP.

TECHNICAL DEDUCTION

Mike: I hear Joe is crazy about electricity.
Ike: Well, what does that make him; an electric fan?

THANK BOYS FOR YOUR CONTRIBS. YOU HELPED US OUT A LOT. IF YOURS DIDN'T GET IN THIS ISSUE BETTER LUCK NEXT TIME, TRY AGAIN.

THE DEACON.

Armour Riflers Defeat Appleton in Close Match

By Franklin W. Faine

In the second match of the current season, the Armour Tech Rifle Team nosed out the Appleton Pistol and Rifle Club by a score of 1867 to 1862. The first match was dropped to another old rival, the New York Stock Exchange, the week before.

It was more or less of a surprise that the Tech men defeated Appleton, a team of sportsmen in Northern Wisconsin which shoots with telescopic sights. Two more matches with the same team are on the schedule, and it is hoped that after three years of defeats, the Armour sharpshooters will be able to take a series from them. Two more matches with the New York Stock Exchange are in the offing as well, and in addition there are meets with two Big Ten universities and with three or four other teams.

This year offers an excellent chance for the new members in the club, since most of the matches call for a team of ten men. Although only five scores usually count for the team total, the other five men receive credit toward the winning of a rifle team charm as well. The scores for the latest match are as follows:

Appleton	Armour
Hussner 382	Wilson 340
Nelson 379	Marow 378
Jensenjohn 376	Renstrom 371
Miller 368	Hellmann 370
Steiner 343	Helmick 368
	Hackley 361
	Wandrey 345
	Luskey 332
	Faine 325
	Kent 310
Total high five 1862	Total high five 1867

More Meets Planned

A challenge for a shoulder to shoulder match with Crane has been received, but some difficulty has been encountered because of the full programs of the Tech men. The Crane rifle range is not available excepting during school periods. Delays in the arrangements for a match against an Armour Faculty team are stated to be due to difficulties in time, and not to the fact that Professors Spears and Engle came down to the range some time ago and surprised some of veteran dead-eyes of the club by their prowess.

Movie Notes

Joan Crawford, more alluring, more radiant than ever, comes to the Uptown theater in her newest triumph "Rain." People who have seen the picture agree her performance is the best thing she has ever done and places her in line for nomination to the Motion Picture Arts Academy award for 1933 for the best performance of the season.

"Irene," the musical comedy sensation, will be on the stage at the Uptown in conjunction with the screen presentation "Rain."

Norma Shearer's newest success, "Smilin' Through," is on the Tivoli screen this week. "Smilin' Through" is real drama with an appealing story and a superb cast headed by Fredric March, Leslie Howard, O. P. Heggie and Beryl Mercer.

Charlie Agnew's ace orchestra will be on the stage, singing, joking, entertaining in the same inimitable fashion that has won him a country-wide reputation.

A new Clara Bow has returned to the screen, after an absence of more than a year, in "Call Her Savage" which is now showing at the McVickers theater.

As the heroine of Tiffan Thayer's dramatic novel, a role which she herself selected, the famous red-head is said to portray a life nearly paralleling her own hectic career. It is the fight waged by a misunderstood girl to curb the conflict of desire which rages inside of her extraordinary intense heart.

Underwriters Lab Inspected in Trip

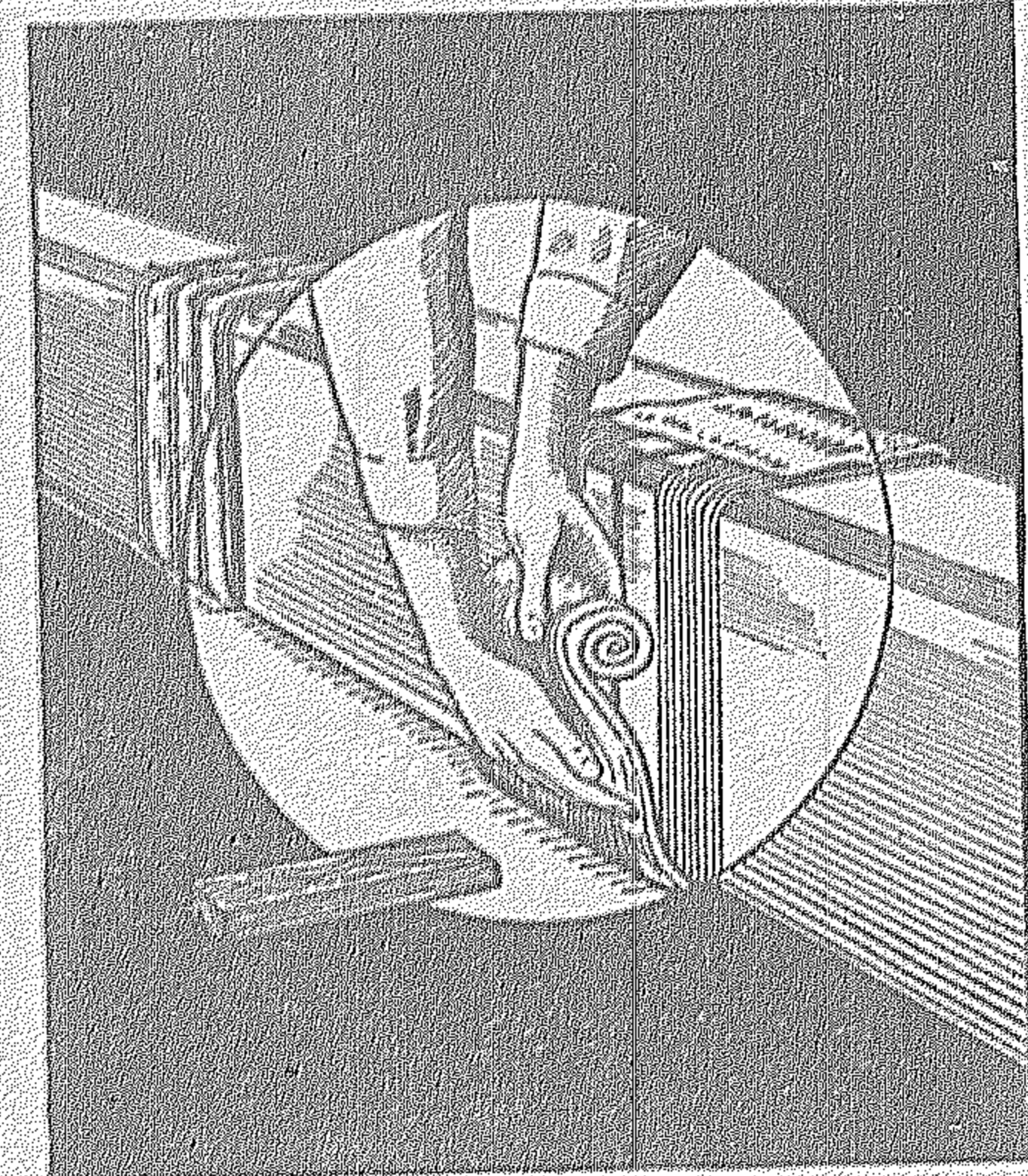
Professor Bentley and the junior chemicals made an inspection trip of the Underwriters Laboratory at 207 E. Ohio St. last Thursday afternoon, December 1. The Underwriters Laboratory has an interesting history. It had a humble beginning in the brain of an engineer by the name of Dean who endeavored to construct a "standard" building and investigated the various fire hazards possible in the building. At present the Underwriters Laboratories here and in other cities are called upon to make tests upon building material obtaining information which aids in setting rates for fire insurance. The laboratories are supported by the various insurance companies.

Besides their importance to the building industry the Underwriters Laboratory solves many industrial problems annually. They perform research upon fireproofing materials, investigate machines and devices with regard to their fire hazard, and conduct many other tests and researches which their laboratory facilities permit. And all in all the Chicago Underwriters Laboratory is as fine an industrial laboratory as can be found in the middle west.

What might happen to American racketeers when they invade London is revealed in "Sherlock Holmes," new mystery thriller now showing at the United Artists theater.

Clive Brook has the title role and Ernest Torrence enacting the role of "Moriarty," the master criminal. Miriam Jordan, beautiful English actress, Reginald Owen, Alan Mowbray, Montague Shaw, Arnold Lucy, Howard Leeds, Lucien Prival, Brandon Hurst and Stanley Fields complete an excellent cast.

The Truss Club hold its annual harvest dance on Saturday, November 20, in its own club rooms. The dance was well represented by active members as well as by alumni. Music was provided by Jolly Gigolo's rhythmic syncopation.



First Aid for unbroken joints

How to keep silt and sand from clogging telephone cable ducts was one problem put up to engineers at Bell Telephone Laboratories. No known method of joining sections of vitrified clay conduit effected a seepage-tight joint.

With scientific thoroughness, telephone men made many tests under service conditions. They devised a bandage of cheesecloth, waterproof paper and mortar. Easily made and applied, this mortar bandage is tight against silt and sand. It prevents clogging, greatly simplifies the installation of new telephone cables and the removal of old ones.

Through solving such interesting problems, Bell System men work steadily nearer to their goal—telephone service of highest possible efficiency.

BELL SYSTEM



A NATION-WIDE SYSTEM OF INTER-CONNECTING TELEPHONES

ROESCH TRACES AUTO GROWTH IN RADIO ADDRESS

Lectures were delivered by Professor Daniel Roesch on November 17 and November 20, from station WJJD on the subject of automotive engineering. A resume of his address follows.

At the present time there are more than 25,000,000 automotive vehicles in the United States; this number being greater than the number of telephones, and twice as great as the number of radios in the United States.

Industry Has Wide Effects
The automobile industry has caused activity in more fields than can be appreciated. Moreover, automobiles pay their own way. The taxes on gasoline alone often amount to the wholesale price of gasoline.

Cugnot developed the first self-propelled vehicle in France in 1770. This machine was driven by steam.

The patent for the first internal combustion engine was issued in England in 1794 to Robert Street.

After this a great many inventions and developments were made. In 1867 the Otto engine was invented, and it dominated the market for about 25 years because of its superiority.

In 1885 the first gasoline engine-automobile was developed by Benz of Germany, and a Benz car exhibited at the World's Fair in 1893 was the first car imported to America.

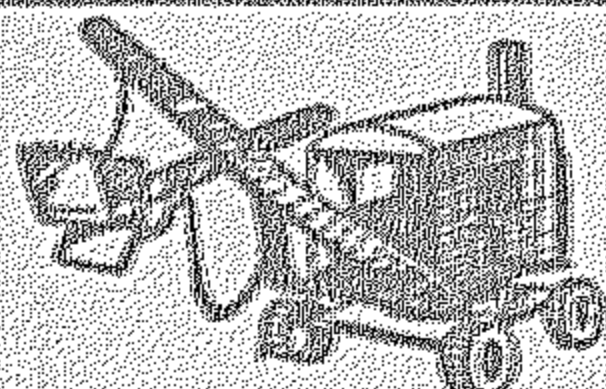
Gas Surpass Steam Driven
After that date a number of American manufacturers began to produce cars, and among them was Henry Ford. A few steam driven cars were produced, but they have been superseded by the gasoline automobile.

The efforts of modern automotive engineers have been almost totally directed towards the attainment of performance in automobiles. This also implies a car that has been built with consideration to safety, reliability, first cost and maintenance costs.

One of the most important problems today is the lowering of wind resistance. At 40 miles per hour the wind resistance is about equal to all of the other power requirements of the car, and at 64 miles per hour this loss is quadrupled.

Another important point is the development of adequate brakes. The braking power of a car represents negative power, and under extreme conditions the negative power developed by a heavy car may be ten times the engine power. A modern

THE STEAM SHOVEL



Rumor has it that M. J. Winegrand is now experimenting with high vacuum lines. He says the results will not be known until early in February.

Boleslav's Job was relieved of what Ernest Tapes is wont to call a bird-sute adornment. The would-be moustahe was removed with clippers instead of the usual razor.

Barnett:
All is forgiven. Please return the watch. **Carpenter.**

Question of the week—name the three junctions who insist on wearing ties of the same pattern. It is said that they are all cut from the same wormwood pajamas.

The junior civils went in for interior decorating last Tuesday. H. Chapin was trimmed with beautiful white tissue paper that is so familiar to all of us.

The bulling melodies of the Glee Club rehearsals overpowered Frank Somenza to such an extent that it took Mr. Erickson some time to bring him back to reality.

It has been reported that A. Cohen and W. Gundersen were practicing ballet dancing in Physics lab last Monday. Long may they live and not damage their socks.

car operated at a speed of 60 miles per hour has enough energy of motion to raise itself vertically 120 feet. This shows the importance of good bushes.

The automobile industries have gained a great many developments in the processes of refining, and one of the important processes is the hydrogenation of crude oils. Automobiles in the United States use an amount of gasoline yearly equal to the flow of water over Niagara Falls for an hour and a half.

In concluding Professor Roesch pointed out the developments in the alloy steel industry and the rubber industry caused by the automobile industry, and also commented on the quality of the various grades of gasoline on sale today.

Fraternity Notes

PHI KAPPA SIGMA

The annual Pledge Dance will be held at the house Saturday, December 10th.

Each year this dance is planned and given by the pledges for the active chapter and their friends. The pledges assure us that everything points to a dance that will be both unusual and entertaining.

Brother Jack Hurley '30, Ensign of the United States Naval Air Corps, and member of the High Hat Squadron, is in the city now, working for Hertz and Company.

SIGMA KAPPA DELTA

Brother Babcock has returned from the Navy Hospital after recovering from an injury suffered during wrestling practice. The finals in the singles ping pong match resulted in G. Reed defeating R. Larson in three straight matches.

Edward "Red" Anderson, x-29 visited the house last Wednesday noon. He says that marriage is treating him fine.

THETA XI

Plans are underway for a Formal Dinner Dance to be held in the Chapter house on Friday evening, December 16.

Many of the fellows spent the Thanksgiving vacation at their respective homes. Brother Willis was a guest of Brother Ellis at his home in Petoskey, Michigan. Brother Bellon spent Thanksgiving day at Joliet with Brother Larson. Those who stayed at the Chapter house made

good use of the vacation by catching up on sleep.

BETA PSI

Probation Week started last Saturday at noon for Pledges Bristol and Searl. Brother Kubicka has been appointed pledge captain to replace Brother Anderson who resigned because of lack of time.

A practice basketball game was held last Wednesday with the Salem Evangelical team. The final score was 18-14 in our favor.

The Christmas dance is planned for Saturday, December 17.

DELTA TAU DELTA

The annual pledge dance was held Saturday, November 26. We wish to take this opportunity to compliment this year's class on the success with which their effort was rewarded. The house was nicely decorated and music was furnished by a good band.

Brother George Bills spent last Tuesday at the house. Brothers Bills, Tucker, and Mel were present at the dance.

Sunday, December 11, marks the date of the December Mothers' Club Tea. After the success of the last meeting it seems that the function will be very successful. The mothers seem to be looking forward to the event with the same degree of anticipation as the chapter and it looks very promising.

Electricals Hear Talk on Relays

Last Friday morning, the A. I. E. E. held a meeting in which it was addressed by Mr. Levy of the sales promotional department of the Automatic Electrical Company.

Mr. Levy consumed most of his time in explaining in detail the uses and operations of the relay, especially in connection with the automatic telephone systems which are gradually becoming more and more commonly used. This method does away with the operator at the switch board, automatically selects the desired number, and by the intricate system of relays, even rings the person called, not to mention the fact that it can, if occasion demands, return a busy signal to the caller. The talk was accompanied by a series of slides, which enabled the members present to get a clarified idea of what was meant, and to simplify the explanation. Mr. Levy went on to point out that these relays were not merely confined to use in telephone systems, but that they had a thousand and one uses in the commercial field, and showed this to be true by giving (as an example) a certain race track in England. It

F. P. E. S. to Hear Adjuster's Talk

Mr. Frank L. Erion, insurance adjuster, will talk on the principles of fire loss adjustment and the influence of present business conditions, at the next meeting of the F. P. E. S. The meeting is to be held Friday, December 9, in room D Mission.

This phase of the insurance business should be of great interest to all fire protection engineering students as it is closely associated with their line of work.

has a large, electrically controlled board, on which appears the names of the horses entered, the total amount of money bet on each horse, the odds given, and is so constructed that it has an electric press, printing the tickets for the race which is just about to be run. It is made possible thereby, for a person at the controls, to shut off the power, stop the presses, and so making it impossible for tickets to be sold after the race has begun.

The attention given to Mr. Levy's talk, was the best indication of the interest of the members, and of a well-presented speech.

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Entrance Examinations to Decide Awarding of Freshman Scholarships

Previous to the 1932-33 college year, it has been the custom to grant scholarships in the Freshman year to one student from each of the Chicago public high schools. Candidates were chosen by the principals and faculties of the schools represented. These scholarships have been discontinued.

For the college year 1933-34, ten scholarships will be awarded for the Freshman year in behalf of male students from any accredited preparatory school or high school. The scholarships provide for free tuition for the Freshman year, at present \$250.00. The selection of these scholarships will be based on the ratings of competitive examinations to be held in May of each year, and also on the personality, extra curricular activities, and general fitness of the candidates. The next examination will be held at Armour Institute of Technology, beginning on Monday, May 22, 1933. A detailed schedule will be sent to all applicants previous to that date. These examinations will be in the following subjects:

English: The entrance examination in English will require the writing of an acceptable short article on an assigned topic, and the answering of such questions as are treated in Woolley's "Handbook of Good English," or a text of similar scope.

Mathematics: The examination in Algebra will be based on such topics as are found in "Modern Algebra," Wells and Hart, pages 1 to 161, or in similar text books.

History or Civics: History of the United States: The student should be familiar with the salient facts given in such a text as Bogart's "An Economic History of the United States," or Muzey's "History of the American People." Special emphasis will be placed on industrial development.

Civil Government: S. H. Pomeroy's "The American Democracy," or W. E. Guithena's "Government and Politics in the United States," represent the work that should be covered for preparation in this subject.

Physics or Chemistry: Physics: Satisfactory preparation for the examination in Physics may be obtained from any of the well-known text books on Physics used in accredited high schools, such as "New Practical Physics," by Black and Davis.

Chemistry: Preparation for the examination in Chemistry may be obtained from Robinson and Materson's "Elements of Chemistry," or Smith's "Fundamentals of Modern Chemistry," or their equivalent. Emphasis should be placed upon the fundamentals of the science, such as, clear definition of the terms peculiar to chemistry, the laws of chemical combination, atomic theory, modern ideas of valence and ionization, practice in the derivation and use of chemical formulas, writing of equations, and solving of simple problems to determine quantities involved in a chemical reaction. These principles should be developed from a study of the more common non-metallic elements, but some study should be made of the metals and their more important compounds.

Scholarships will be awarded only to students who qualify in the requirements for entrance as outlined on pages 16 to 19, inclusive, of the General Information Number, Bulletin of Armour Institute of Technology, May, 1932.

Advance registration for these examinations must be made previous to May 15, 1933. Address Office of Deans, Armour Institute of Technology, Chicago.

TECH BASKETBALL TEAM PREPARES FOR FIRST GAME

Meet U. of C. Tomorrow Afternoon in Their Field House

TWO LETTERMEN BACK

By H. W. DAVIDSON

Tech's basketball team will open the season tomorrow afternoon when it meets the University of Chicago at the new U. of C. field house.

The team this year will be made up mainly of newcomers as Coach Otto Kuehn has only two lettermen back around which to build his team. Captain Beemsterboer at center and Rummel at guard have already won their majors.

Despite the absence of veterans, one of the strongest Tech teams in recent years will take the floor against the University of Chicago cagers.

Competition is Keen

All positions on the team have been and are hotly contested for. At the forward positions, Lashober and Warner, both freshmen, have shown exceptional ability with La Pedas and Hagenauer pressing them hard. Captain Beemsterboer will hold down the center position, with Lauchukis and Irg fighting it out for the alternate. At guard, Rummel and Pflum will probably be assigned the regular positions with Dollenmaier and Lukas as alternates but being pressed hard by Sullivan, MacLennan, Peterson, and Schmidt.

New Uniforms Issued

New uniforms were issued to the regulars by the manager, I. C. Johnson yesterday afternoon. The new suits are a distinctive improvement over the former, both in style and color. Johnson is also busy engaged in keeping the four candidates for assistant manager who answered the call, busy.

A faster game has been developed this year with new "ten second" rule going into effect. Therefore the Tech team will show the Armour roster a fast breaking offensive which is sure to add to the scoring power of the team as well as to the general interest of the spectators.

Cheering Section to Be Formed

In recent years the student body has attended the games in increasing numbers. This year a cheering section is being formed under the direction of George Nelson, which should further increase the school spirit at the games. The home games this year will start at 4 o'clock sharp, and as usual, the games will be played at the armory located at 35th Street and Giles Avenue.

The alumni game originally scheduled for December 1, has been moved up to January 8th. With this lone exception the schedule, as previously printed in the *Armour Tech News*, is unchanged.

Interclass Track Meet This Week

In preparation for the interclass track meet which is to be held on Saturday, December 10, the men who aim to compete for their class teams have been training continuously for several weeks, now. The spirit that has been shown by the athletes in their workouts give every indication that the meet will be an interesting affair.

In past years the seniors have managed to dominate the interclass track situation but this year the juniors predict an upset. It will be of interest to follow the results of this meet and finally find perhaps that both of the upper classes forgot about the sophomores and freshmen.

Tentative Schedule Given

Armour's track team has not officially announced its schedule as yet but the teams that will most likely be met are Lake Forest, Beloit, North Central, and Monmouth. They may also compete in the Drake Relays. This schedule will give Armour stiffer opposition than it has been up against for several years.

Many inquiries have been received regarding the Armour Relays. The schools in this section of the country are anxious that Armour Tech would have another meet, similar to the Armour Relays of last year.

Tech Swimmers Hold Time Trials

The activities of the Tech swimmers are as yet confined to rigorous practice under the able supervision of Coach McGillivray, in the University of Chicago swimming pool. Practice and tryouts are still continuing and will continue to the first of the year in an effort to attain the peak of perfection before a very strenuous tank campaign is launched after the Christmas holidays.

Time trials, under the watchful eyes of Captain E. W. Carlstrom and the coach, were held last Tuesday to test out the new material. Great promise is shown by three freshmen; Tallafas in the free style, Swartz in the fancy diving events, and Knass in the breast stroke. Two juniors also look good; Burson, who is a new student from Yale, in the 220 yard free style, and Reed in the diving event.

Swimming Prospects Are Bright

The swimming prospects for the coming season look bright in the return of six veterans and the abundance of promising new material. The team will be built around Captain Carlstrom, Knass, Aborn, Bernstein, Giovan, and Davidson as a nucleus. All new prospects have a chance to make the team by proving their ability.

Last season, the swimmers came out victoriously five times in a tough eight meet schedule. Two of those three defeats were administered by the Panzer University which had an exceptionally good team, and Croce was the other victor. The tankers defeated Crane in their first engagement. Chicago Normal, Illinois Wesleyan, and Morton were the other victims.

Captain Carlstrom and Irving Kolbe, both of whom are back again this year, scored 110 points of the team's total of 330 points last year.

Schedule Still Tentative

The 11 game schedule which is only tentative thus far, will be the toughest competition an Armour swimming team has ever faced in past seasons. The meets will all be home and home engagements, the probable opponents being Chicago Normal, Chicago College, Northwestern "B" at the Fulton pool and the return meet at the Earlhart gym pool, Loyola, Illinois Wesleyan, at Bloomington, Illinois, Wisconsin State Teachers, and Morton Junior College.

TECH SHORTS

BY H. F. BECKER

Tryouts for cheerleaders will be held tomorrow at 11:20 in the assembly hall. Cheerleaders will be at the basketball games and it is the endeavor of the committee in charge, headed by George Nelson, to promote school spirit. It is a material aid to the various teams to have interested spectators encourage them and we urge everybody to attend the games and meets in basketball, track, swimming, and boxing which will be held this winter. Your activity fee pays for this and you may as well get the benefit of it.

The interfraternity basketball season will open Thursday when Triangle meets Theta Xi and Phi Pi Phi meets Kappa Delta Epsilon.

The *Varsity basketball season opens tomorrow with the Tech team traveling to the U. of C. to play, and on the 10th Armour will meet North Central on their floor.*

Tonight in the night of the boxing tournament. A large crowd attended last year and saw some good scraps and this attendance will probably be repeated.

The swimmers have had three trials and a number of new men, mostly freshmen, have shown up well. The season will start after the Christmas holidays, and Manager Swenson has scheduled meets with Chicago Normal, Crane, N. U. "B" team, Loyola, Illinois Wesleyan, Wisconsin State Teachers, and Morton.

The annual interclass track meet will be held this Saturday at Earlhart Gym. The prospective competitors are training diligently for this contest of speed and the juniors are loudly proclaiming that they will upset the usual precedent.

The deals in wrestling were held yesterday instead of last Friday.

It was a surprise to learn of the death of George Ketchum, junior civil, and we wish to extend condolences to his parents and his friends.

Preliminaries to Be Held in Boxing Meet

Now that the wrestling tournament is over, the preliminaries of the Tech boxing tourney start tonight with a field of twenty-five boxers entered in five different weights of 125, 135, 145, 155 pounds, and heavyweight, respectively. After tonight's preliminaries have been completed, the finals will take place on Friday, December 9.

Bouts are Three Rounds

All bouts will be held in the school gymnasium, and will be three rounds of one and one-half minutes each. A decision must be reached after the three rounds in order to comply with college rules. Fourteen ounce gloves will be used in all of the bouts.

Since there is not an even number of entrants in each division some of the boxers must fight twice in the preliminaries, tonight to have Friday for the finals.

Following are the pairings:

- 125 Pound Class**
Feinberg vs. Perrill
Pruitt vs. Straz
Henning vs. Ruben
Castanes, Bye
- 135 Pound Class**
Breh vs. Dangrubick
Lodeski vs. Suman
Ganzar, Bye
- 145 Pound Class**
Norris vs. Quinell
Nieg vs. Hallen
Jones vs. Voornthog
Van Dyle, Bye
- 155 Pound Class**
Phillips vs. Engstrom
Hough vs. Smith

Heavyweight
Balsewick vs. Beemsterboer

The tournament will serve another purpose in locating the best of the Tech boxers to make up the regular squad. Manager Frank Koko predicts several good meets scheduled after the Christmas holidays.

INTERFRATERNITY BASKETBALL WILL START THIS WEEK

Fraternity basketball teams have all had their practice sessions with the exception of two teams who will practice in the Tech gym tonight and tomorrow night. This means that the first games of the tournament will be played Thursday night, December 8, when the Theta Xi team plays Triangle in one game, and the Phi Pi Phi's play the Kappa Delta Epsilon fraternity.

Phi Pi Phi Out for Fifteenth Title

Last year's champion, Phi Pi Phi, will be trying for its fifteenth consecutive basketball title, and according to all the advance dope the Phi Pi's are the team to beat for the title. In winning the interfraternity basketball championship last year the Phi Pi Phi quintet had little trouble until the final round when they met the Beta Psi team. This game proved to be one of the closest in the history of the tournament with the final score 10-9 in favor of the Phi Pi's.

Despite the fact that the Phi Pi Phi team is the favorite, they can expect a lot of tough opposition from the other entrants especially Beta Psi and Triangle. Following is given the complete schedule of the interfraternity basketball tournament.

FRATERNITY BASKETBALL SCHEDULE

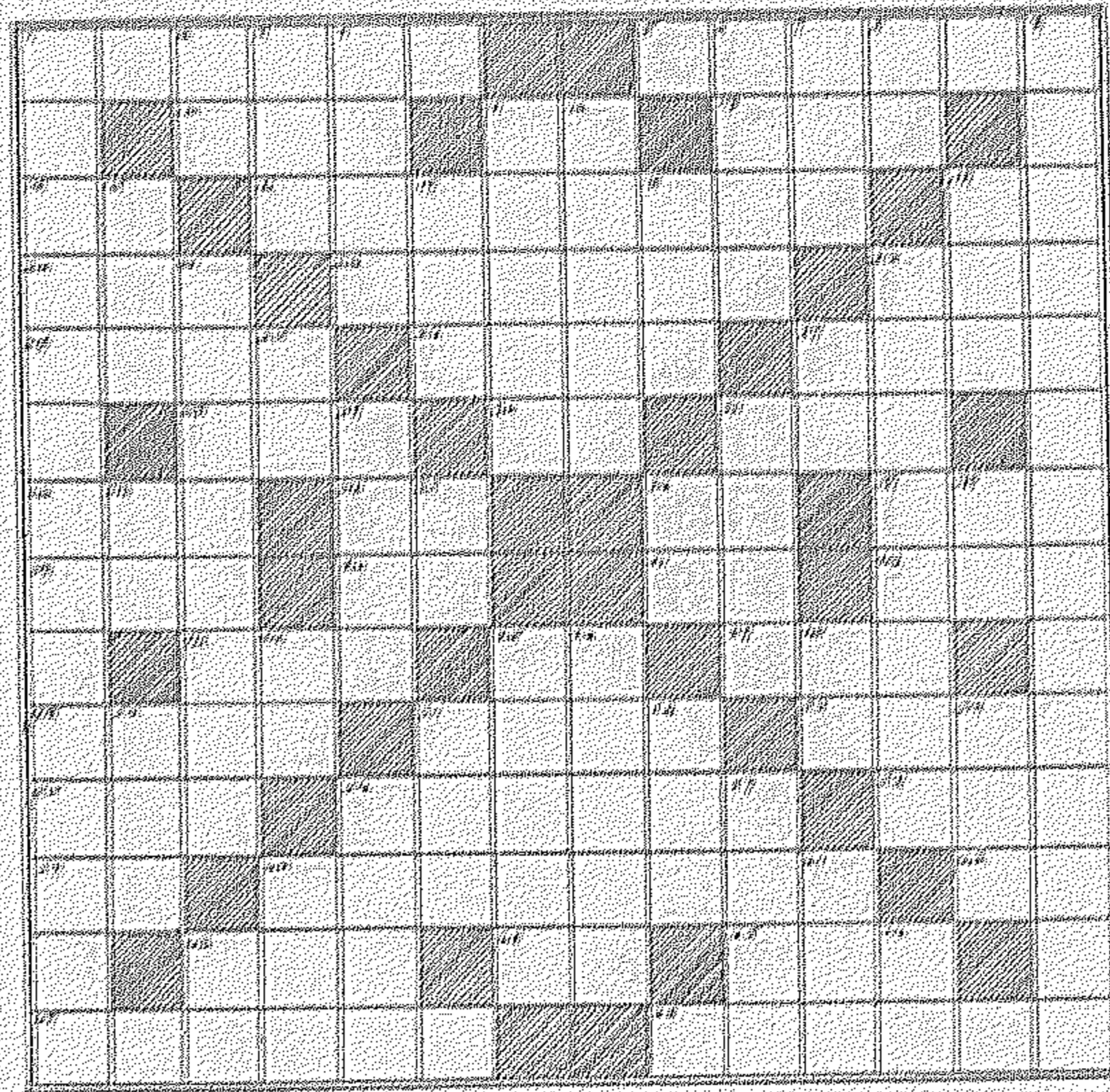
- First Round**
December 8
Theta Xi vs. Triangle
Phi Pi Phi vs. Kappa Delta Epsilon
 - December 9**
Phi Kappa Sigma vs. Sigma Alpha Mu
Sigma Kappa Delta vs. Delta Tau Delta
 - December 12**
Rho Delta Rho vs. Beta Psi
- The one second round game is scheduled for December 12 and the semi-final round will be played on December 13. The game deciding the championship is to be played a week from tomorrow, December 14.

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CROSSWORD PUZZLE NO. 1

By N. E. Colburn



- HORIZONTAL**
1. A fruit with very low nutritive value.
 2. Letter in Greek alphabet.
 3. French meaning three.
 4. Much known.
 5. To hang, to show.
 6. To make (verb).
 7. The professor who tells you all about Mr. Fitzhugh's Energy.
 8. Ance Meritum.
 9. A man's best friend.
 10. Mashed or obtained by labor.
 11. To and.
 12. The 15th of March.
 13. Large woods, prominent plant.
 14. "The ... off" name as "standard of".
 15. To amend, to make a new thing.
 16. Quarter for you.
 17. Moved quickly.
 18. Care about (verb).
 19. Part of verb "to be".
 20. Prof. Freeman is head of this dept.
 21. Negation.
 22. Any of species of extinct Reindeer heads of New Zealand.
 23. Not down.
 24. Myself.
 25. Before (preposition).
 26. Tribune editor's initials.
 27. Prof. Armour's first two initials.
 28. To sprout.
 29. Fish.
 30. A large food and game fish of the mackerel family.
 31. Broad ribbon.
 32. To absorb nourishment.
 33. Moves.
 34. Inmate of a prison.
 35. Newfoundland (verb).
 36. Form of government on old sailing vessels.
 37. Personal pronoun.
 38. An act.
 39. Form of government on old sailing vessels.
 40. Protected side of island.
 41. Lake water (verb).
 42. A geometric concept determined by two intersecting or parallel lines (plural).

- VERTICAL**
1. Long use on home multiplied by distance (verb).
 2. New Testament name.
 3. Areas (metric systems).
 4. Arcuate.
 5. In bed.
 6. Scratch, broken.
 7. Bench mark.
 8. One publication on Board of Publication.
 9. Dean of Emerson School.
 10. Wild buffalo of India.
 11. Turf.
 12. Choppy.
 13. Turn right (command to horses).
 14. Form of to be.
 15. Head of Mechanical Department.
 16. Head of P.P.E. Department.
 17. Therefore.
 18. Note in scale.
 19. Head of Dept. of Science.
 20. Head of Dept. of Architecture.
 21. Company (verb).
 22. Military police (verb).
 23. Measure of type.
 24. Either.
 25. Pronoun.
 26. Head of Civil Department.
 27. Opaque form of "bright".
 28. Form of to be.
 29. Clumsy fool.
 30. Abb. of Dept. of which McCormack is head.
 31. Omega Gamma Alpha.
 32. When you add some numbers, you get this.
 33. Dean of Engineering.
 34. A hybrid between the horse and the ass.
 35. Kappa Omicron Iota.
 36. Pasture or grassland.
 37. Latin for "and".
 38. Printer's measure.

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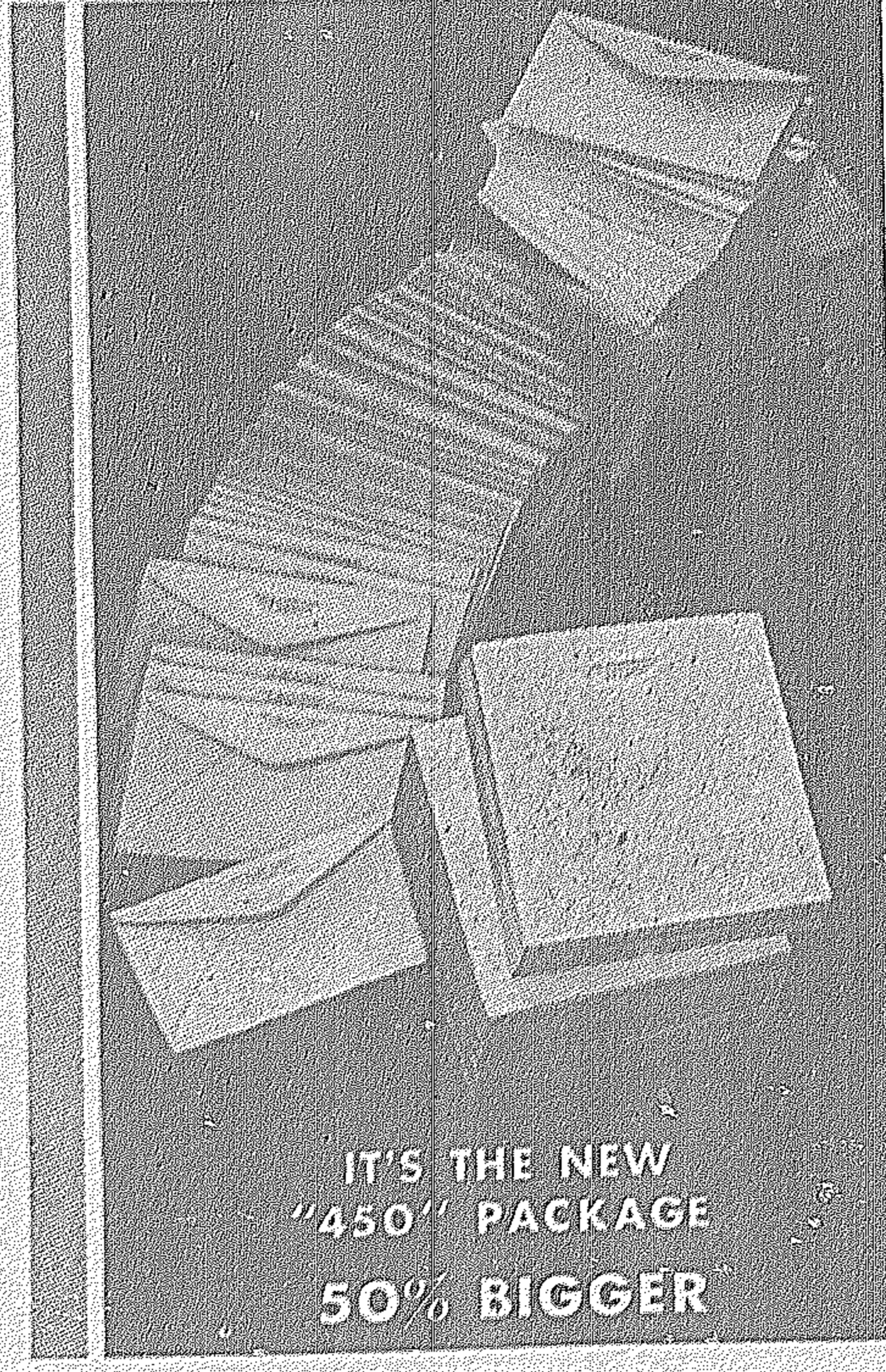
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