



School Sponsors Free Movies In Union Saturdays

Bringing the romance of science and engineering to the living screen, Armour Tech will inaugurate, on April First, a series of movies to be held each Saturday afternoon at two o'clock in the student union auditorium. Films will last from an hour to an hour and a half.

Complete cooperation from several large industrial firms has allowed three or four films to be secured for each program. The main purpose of these movies is to permit high school seniors to become better acquainted with the Institute. For this reason programs have been sent to all of the Chicago high schools. However, any who are interested are welcome to attend.

Subjects Cover Many Fields

Promising an interesting variety of topics, the programs for April have already been made out. On schedule for April First are four pictures—"Wonderworld of Chemistry," depicting the daily phenomena of the test tube; "Gems of the Rockies," a panorama of the national mountain highways; "We Drivers," vital data on safe driving; and the "Fourth Kingdom."

On April Eighth will appear a picture on automobile engines entitled "Where Mileage Begins"; "Where Champions Meet," a fishing picture; and an Underwriters Lab films showing the various tests and experiments performed to reduce fire hazards. "Chilled Car Wheels," a new type of railroad car on which the rims are frozen will be one of the films presented on April Fifteenth. The other two shown on that date will be "Safety's Champion," featuring Ab Jenkins, one of the world's ace racing drivers; and "Algonquin Waters," a fishing picture.

On April Twenty-second Armour will run "Flow," a film dealing with valves to control liquids; "Safeguarding the Speechways," methods of testing telephone lines; and "Diesel—the Modern Power," new developments in Diesel engineering. Climaxing the April programs will be four interesting films on the Twenty-ninth. They are "Science Save the Surface," the story of paints and varnishes;

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Cycle Features Photo Section

During the first week of June, this year's Cycle will be distributed. Several difficulties have prevented the presentation of the annual at the usual time—Junior Week. One of the problems was that of obtaining individual pictures of the members of fraternities. Another was the indefiniteness of the name of this year's Cycle. The alternate name suggested was the *Techhawk*. These problems have held up the printing of many of the manuscripts, and also the final settlements of cover contracts, etc.

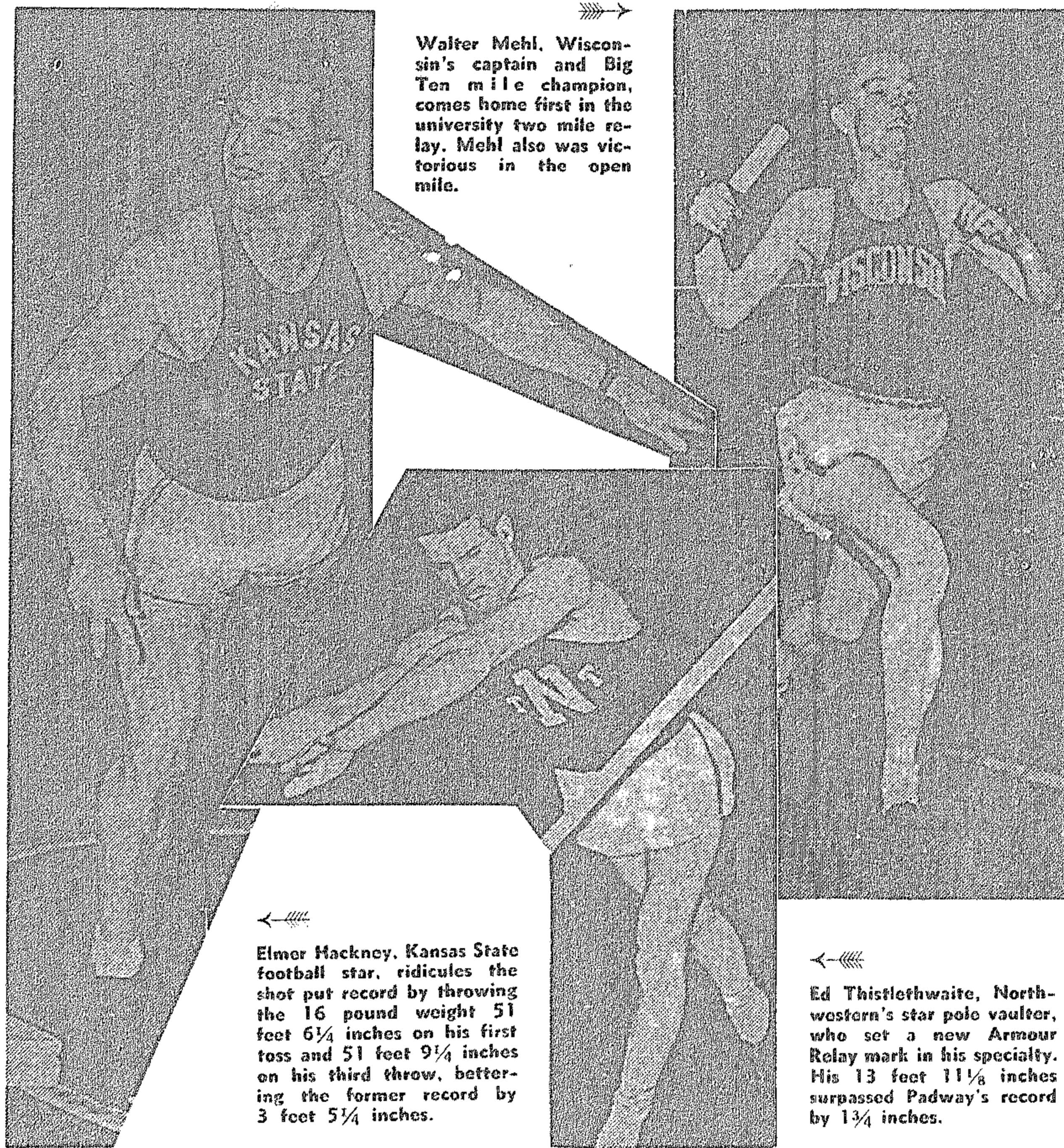
Innovations this year will be an enlarged snapshot section, and lots of two-color effects. Daniel Jacobson has worked hard to increase the number of pictures and also to reduce the quantity of manuscripts.

The pictures of the classes are arranged with that of the class officers first, followed by a picture of an event which was typical of the class during the past year. This will be followed by the pictures of the body of the class.

Group sports photographs have been taken from an unusual angle, giving unaccustomed depth to them. The portions devoted to the publications contain photographic reductions of recent copies. These features count for the fact that the Cycle will be the largest issue so far published.

The staff has been welcoming suggestions made by the students, and any person with a definite and well thought out plan for possible improvement will find a ready audience. The office of the staff is located in the rear part of the alumni offices.

Stars Shine at Tech Relays



Walter Mehl, Wisconsin's captain and Big Ten mile champion, comes home first in the university two mile relay. Mehl also was victorious in the open mile.

Elmer Hackney, Kansas State football star, ridicules the shot put record by throwing the 16 pound weight 51 feet 6 1/4 inches on his first toss and 51 feet 9 1/4 inches on his third throw, bettering the former record by 3 feet 5 1/4 inches.

Ed Thistledwaite, Northwestern's star pole vaulter, who set a new Armour Relay mark in his specialty. His 13 feet 11 1/4 inches surpassed Padway's record by 1 3/4 inches.

(Printed thru the Courtesy of the Chicago Sunday Tribune)

Four Records Broken, One Tied As Michigan Normal Takes Title

Hackney, Smashes Shot Put Mark

Record breakers have had their nights but seldom have they enjoyed such disregard for limits as they did last Saturday evening at the Eleventh Annual Armour Tech Relays. In all, four records were broken while a fifth mark had two names added to its list of holders.

The first mark to hit the sidelines was the shotput which went asunder before the spectators had had time to be seated. Here Elmer Hackney, football star from Kansas State University, threw the 16 pound weight 51 feet 6 1/4 inches on his first effort in the qualifying round. This feat not only broke the former record of 48 feet 4 inches but was itself bettered when Hackney tried a third time. Fifty-one feet, nine and one-quarter inches were traversed before the weight hit the ground for what was the longest toss made by any athlete in competition this year. It also bettered by 7/8 of an inch the Big Ten indoor record set last week by Watson of Michigan.

Kauffman, Shelton Tie Record

While Hackney was smashing the shot put record, two sprinters were busily engaged in an effort to lower the minimum time for the 70-yard dash. In his semi-final heat, Kauffman, Wisconsin's star sprinter, planted his name alongside that of Grieve of Illinois, Johnson of Illinois State Normal, (Continued on page three)

North Central Second; Grinnell Third

Armour's "Night of Stars" proved to be truly a night of stars when four old records were broken and one tied in the eleventh annual running of the Armour Tech Relays at the U. of C. fieldhouse last Saturday before a large and spirited crowd. In addition to the record breaking that went forth at the meet, North Central, the victor in last year's games, was prevented from retaining the title by the all-around ability of the Michigan State Normal team, who scored in every event with the exception of the 70 yard dash. The three leading teams of the evening were close all the way with the finals events deciding the winner. In winning the team trophy Michigan Normal, who scored 21 points for a third last year, scored 56 1/3 points, North Central rated a second place with 42 points, while Grinnell showed a lot of strength to cop third position with 37 points. Armour was not able to repeat last year's performance when they scored a fourth, but were able to garner only 2 1/3 points.

Although no trophies were awarded for team performances in the university division, Marquette by unofficial count was high scorer of the evening with 56 1/2, followed by Wisconsin, 50 1/2; Kansas State, 32; Illinois, 25 1/5; Northwestern, 19 1/2; Michigan State, 14; Chicago, 11 1/2; and Nebraska, 6.

Fenske in 4:12.5

In the special mile event Fenske ran against Deekard of Indiana but not able to better the time which was established in the Tech Relays of last year when he covered the distance in 4:08.9. Last Saturday, paced by his teammate Dick Cooper, Fenske led his opponent, Deekard, all the way and broke the tape in 4:12.5. Another teammate of Fenske, Walter Mehl of Wisconsin, brought the crowd to its feet on several occasions by his great running. Mehl put on a spectacular finish to win the one mile open. After holding back for most of the race, Mehl came up fast in the final lap to pass Pedler, Western State Teachers, and break the tape. Running as anchor man in the university 2 mile relay and the university sprint medley relay, he showed his superiority by distancing

(Continued on page three)

W.S.E. Proposal Near Solution

Formation of the much discussed Armour branch of the Western Society of Engineers has taken a concrete form, following a meeting held last week in the Student Union. Two representatives from each Armour engineering society formed a committee to discuss the problems which have harassed the organization in its early attempts to organize.

Revising of the by-laws occupied the major portion of the meeting, for this raised much controversy in various departments. Each section of the by-laws was taken up separately and restated to the satisfaction of all.

One of the important objections concerned the article providing for unlimited assessments on members of the society. This article was changed to provide for an annual payment of \$2.50 per organization. The fee will qualify all members of each society to full membership in the Armour Branch of Western Society of Engineers. Freshman students are excluded from formal membership in the branch.

A board of managers composed of two members from each of the component organizations will govern the society and elect from its body a staff of officers to preside over the affairs brought before the society. Representatives will be elected by secret ballot within each group. They are to be seniors and will be elected during the first few weeks of the second semester in the Institute's program.

Seniors To get Second Chance To Buy Jewelry

Seniors who have not yet ordered their rings or keys will have another chance to make a selection on March 27 and 28 in the main building lobby. A large variety of distinctive jewelry is available at prices ranging from \$5.00 to \$13.75 for the rings, and \$4.00 to \$6.25 for keys. Well made, the pieces are of ten karat gold and may be obtained in onyx, ruby, spinelle, sardonyx, and other finishes. Only half the payment is required when making an order, the rest being due by the time delivery is made, thirty days later. Seventy men who placed their orders two weeks ago can expect their rings or keys to arrive by Easter.

A.I.T. to be Host At Second Annual Power Conference

Design of Small Plants To be Discussed

Chicago's famous Palmer House will be the site of the second annual Midwest Power Conference sponsored by Armour Institute of Technology on April 5, 6, and 7. Last year's conference director, Dean Grinter, will head the conference again this year. Cooperating with Armour Institute will be seven other colleges in this vicinity. These are: Iowa State College, Purdue University, University of Illinois, Iowa State University, Michigan State College, and the University of Wisconsin.

Twenty-five topics covering various phases of power engineering will be discussed at the conference in an effort to make the program as complete in its scope as possible. Steam, diesel, electric, and hydraulic power will be the principle topics discussed, and special papers will be presented on them. The results obtained by L. W. Wallace of Crane Co. in laboratory researches will form the basis for a discussion of new spheres of industrial and commercial applications and methods.

To Tour Research Lab

The A.S.M.E. and A.I.E.E. will cooperate with the Conference in two special luncheons Wednesday and Thursday of the Conference week. On Friday an inspection trip of the Armour Institute Research Laboratories will be made. This will be followed by a visit and luncheon in the Crane Co. plant.

Mr. F. Elwell of the Buick Motor Division of General Motors Co. and Mr. G. A. Gaffert of Sargent & Lundy Co. will present a paper on the design and application of small power plants. Discussion will follow this paper. The social aspects of diesel power will be presented by Mr. L. H. Morrison, editor of "Diesel Power," and the technical aspects of diesel power will be covered by Mr. C. G. A. Rosen of the Caterpillar Tractor Co.

(Continued on page six)

Armour Alumnus Wins Hero Award

Bruce A. Young, M.E. '13, has been awarded a Carnegie Hero Medal. He is one of two Chicagoans who have received this award for risking their lives to save others from drowning. The medal is awarded to those who perform outstanding feats of heroism at the risk of their own lives.

While passing through Douglas Park on March 5, 1938, Mr. Young saw two small boys break through thin ice on the lagoon. They were about 90 feet from shore and in about 10 feet of water. He had to swim through an open channel to rescue the boys, Sidney Richer and Ezra Aranoff, ages 8 to 11 respectively. After diving for one of the boys, he held them both with one hand and swam to shallow water.

Mr. Young is now Assistant Superintendent and Chief Engineer at the printing plant of R. R. Donnelley and Sons of Chicago. He is a member of Delta Tau Delta.

New Lab Acquired For Sewage Study

Armour Institute has acquired a new laboratory to be used by students of the day and evening classes engaged in the study of sewerage treatment and water purification. Included in the equipment of the laboratory is an "iron filter" capable of purifying enough water for a town of from 600 to 800 people. This system is also used for removing the dissolved oxygen from the water.

Attending the evening classes are engineers who represent some of the largest industrial plants of the city. It is the purpose of these classes to train the men so that they will be able to treat the polluted water in such a manner that if it enters the lake it will not affect the drinking water.

Dr. Mohlan, Chief Sanitary Chemist of Chicago, is the instructor of this course. He is also the editor of the journal entitled "Sewerage Work."

Terzaghi Gives Talk on Earth Pressure Work

"Earth-pressure Theories" was the title of a lecture given before the graduate division by Dr. Karl Von Terzaghi last Tuesday evening, March 14, in Chapin Hall. Some of the more prominent men of engineering were in attendance as well as all members of Dr. Peck's advanced soil-mechanics class.

According to Dr. Terzaghi there are two fundamental earth pressure theories—the empirical theory and the scientific theory. The empirical theory concerns retaining walls, foundations, and embankments and was developed by Coulomb in 1780. Coulomb was an army engineer at the time and most of his data was developed primarily from his field observations.

The scientific theory was developed by Rankine in 1850 to get rid of an inconsistency in Coulomb's work. Coulomb, it is said, did not take into account the fundamental equilibrium equation that the summation of moments about any point are equal to zero. Rankine also developed a mathematical treatise on the same subject.

During later years a number of simplifications were made. The work of Professor Karmin generalized Rankine's theory. From a study of these data Dr. Terzaghi made two important conclusions—one, that Coulomb's theory for active earth pressures was only correct for practical engineering purposes—two, that a modification was necessary for passive earth pressures.

Dr. Terzaghi is consulting engineer for the Chicago subway. He was a guest of the graduate school and, with the aid of the aforementioned theories, lectured at length about the design of high retaining walls, location of tunnels in hillsides, and the design of bulkheads. Dr. Terzaghi, who is now with M. I. T., recently made the headlines in the daily papers for his soil testing work in loop area.

Seniors Hold Second Dance Saturday Eve

Again Armour's seniors have selected the Student Union as the site for their class dance, to be held next Saturday night, March 25, at 9:30 p.m. in the main auditorium. Since bids may be purchased for only one dollar, and many dancers are expected a limitation has been placed on the number of couples attending. Only 250 bids are in the hands of the committee members, and when these are disposed of, no more can be had. The entire Student Union will be available for students and their dates. Several additional waitresses will be on hand to handle the soda fountain trade and the lounge, which is always well populated during any dance in the Union, will be in shape to receive the guests.

In starting this series of inexpensive dances, the seniors are attempting to encourage more social affairs in the Student Union. The price is so reasonable that everyone can afford it, and those that remember the old Mission building are practically unable to resist the opportunity to "show off" their new social center.

The committee in charge of affairs, and from whom bids may be purchased, are: B. G. Anderson, chairman; Tom Collier, Irv Footlik, Bill Chapman, Russ Kotol, Sig Moleculeski and Ed Mitchell. Don't forget, it's NEXT Saturday night!

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Eight O'clock Classes?

Beginning next September we may be coming to school at eight in the morning! Isn't that a pleasant surprise? Many of the students already have to roll out of bed at 6:30 or earlier. With classes at eight o'clock they will have to get up before sunrise in order to beat the professor to class. Don't think the professors will like it any more than the students. They will have to get up at the crack of dawn, too.

One of the conditions which will make eight o'clock necessary is the crowded condition of the lunchroom. At present all of the students can not be served in comfort in the short time allowed for lunch, therefore the plan is to increase the lunch period. This will mean that school must open earlier, since the five o'clock closing is already late enough, making additions to afternoon time out of the question.

Happily, there is a way out of the dilemma without eight o'clocks, and with plenty of time for lunch, all with a better chance for the lunchroom staff to have a breathing spell between rushes. The solution is simple—two lunch periods spaced as follows: first lunch to run from 11:20 to 12:10, second lunch from 12:20 to 1:10. This will give exactly the same time for lunch as we now have, but the ten minute break between the two periods will give the bus-boys a chance to clean up the mess from early lunch and give the cooks a chance to replenish the depleted stocks on the steam table. In addition, each rush will be cut about in half, making it more convenient for everybody.

No classes need to be missed. Those who have lunch early go to class from 12:10 to 1:00, a regular fifty minute class, and those who have late lunch go to an 11:30 class just as they do now. All that is needed to carry this out is a small change in the class schedules.

Mr. Kelly can easily revise the present schedules to fit this plan. The only changes will be in approximately one half of the 11:30 classes. These will merely be moved over to 12:10, and no extra rooms will be necessary.

As presented, this plan seems to take care of most of the difficulties in a rather handy way. However, as is often the case, there is a string attached. The string is nothing other than student carelessness, a very big item. A sight too familiar to us all is that of the lunchroom filled with men just wasting time. Card playing, crossword puzzles, and fooling around are meant for other places. The worst part of it is that they persist in doing this when others need the space, particularly during the lunch hour rush. They do it in spite of repeated requests that they get out to make room for others. It certainly is not a gentlemanly thing to do and is absolutely unnecessary. Until this evil is removed the lunchroom will always be a source of displeasure.

"The Slipstick"

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

In spring a young man's fancy turns to love. This is spring, so maybe that lazy feelin' to do nuthin' and just stay set that I have must be love. But love or no love, this column must go on, and enumerate the finer things in life to you. To help you Junior Chems along in your Juice course we are presenting a sample quiz with our answers to that next quiz that is coming up very soon.

1. What is electricity?
Ans. A course of study otherwise known as electrical measurements.
2. What is a current?
Ans. A fruit which resembles blueberries in shape.
3. Define hysteresis.
Ans. Hysteresis is the condition a girl gets in when she loses her platinum bar pin at the Junior Formal.
4. What is a commutator?
Ans. A person who lives in Oak Park.
5. What is a battery?
Ans. A battery is the pitcher and catcher on a baseball team.
6. What is a brush?
Ans. A brush is a small object used in the process of combing hair.
7. What is an armature?
Ans. A non-professional ball player.
8. What is a floating battery?
Ans. One who e specific gravity is less than one.
9. What is an induction motor?
Ans. A motor which can be induced to work properly.
10. What is the relation between the volt, ampere, and the ohm?
Ans. The ohm is the amount of potential necessary to send an inductance of one coulomb across a reluctance of one watt. An ampere is the resistance offered when one plug is taken out of an induction coil. A volt is the number of atoms of electricity flowing past a point in one hour.

We've been around this hole in the wall long enough to pass this little tip to some of our newer contemporaries. Should a professor, during a class, be rude enough to interrupt an interesting conversation you may be holding with a friend, acknowledge the interruption gracefully and show him that you at least can act like a gentleman.

He came in and sat down along side of her. He was a clean cut goodlooking chap. She smiled at him. The place was deserted. In a low tone he said, "Please give me what you gave me last night."

She hesitated, looked wildly about her and suddenly cried out, "Sunnyside up on toast an a cup o' coffee."

We have a little ditty entitled: The only rings I ever gave her were the rings beneath her eyes.

"Don't you dare kiss me or I'll yell for my father!" "Where is he?" "In Paris."

Big-game hunter: Oh, yes, I've been pursued by lions many times, but life without a little risk would be very tame.

Sternfeld: I agree! Many times, when the weather has seemed doubtful, I have deliberately gone without my umbrella.

Some girl we know is like a radio—subject to change without notice and very little on after midnight.

Teacher: William, what are the genders?
William: Masculine and Feminine. The feminine are divided into frigid and torid, the masculine into temperate and intemperate.

James was about to leave his girl's home when he was confronted by the massive figure of his prospective father-in-law.

The youth tried hard to evade him, but the girl's father grasped him by the shoulder.

"Now, then, my lad," he said, "you've been coming here quite a lot. What do you want with my daughter?"

"Well, sir," said James a trifle nervously, "you know best what you can afford."

We understand that many a wallflower would be popular if she shed a few petals and showed her stems.

Fulghum: Mr. Catlin, correct this sentence: "Girls is naturally better looking than boys."

Catlin: Girls is artificially better looking than boys.

The Great Human Fly was slowly ascending the side of the skyscraper. As he reached the fortieth floor he heard the cries of alarm and looking down he beheld a drunk almost directly behind him.

"Get back there, you fool!" he yelled. "You can't do this trick."

The drunk thumbed his nose at him.

The Great Human Fly shrugged his shoulders and continued on. Up, up he went past the fiftieth, past the sixtieth story, until he reached the top. He climbed over the parapet and sank exhausted on the roof. Then he felt something heavy fall on top of him and discovered it was the drunk who had followed him.

His professional jealousy was outraged. The drunk grinned. "I c'n do anything you can do!"

The Great Human Fly laughed with a sneer. "Oh, yeah?" he cried. "Well, let's see you do this!"

With a terrific leap he cleared the parapet and opening his parachute floated toward the ground. Half way down he heard a chorus of shrieks and looking up he saw the drunk coming after him, hell bent for election. As he passed him the drunk yelled, "Sissy."

HI-YO SILVER.

School Sleeps As Specters Peep

Scene: The darkened library of Armour Institute of Technology. Several shafts of light from the street lamp steal in through the window, making silhouettes on the floor.

Time: The night of the 47th anniversary of the founding of A. I. T., half an hour after the last student and professor, janitor and scrubwoman have finished work and gone home.

The library wears an unaccustomed mantle of ghostly silence; the bare, flat tops of the study tables reflect a few cold, shafts of light. The old clock given by the class of '02 ticks sepulchally as it stands against a bookcase.

Of a sudden, there is a movement in one corner of the room. A loud snort is heard, then a stentorian voice calls:

"Frank! Say, Frank!"

From the main hall a resonant, silver-toned voice responds:

"What is it, P. D.?"

"Come in here and help me out of this fool frame. I'm so stiff I can hardly move."

"All right, I'll be right there."

A moment later, through the locked glass door, a shadow walks into the library and over to the unfortunate one inside the picture frame. As he walks, he keeps twisting his head from side to side and rubbing his neck as though to ease the stiffness. He speaks conversationally as he helps the other shadow down:

"My neck is pretty stiff, too. It's that collar, you know. And then I always have to look in that same direction."

P. D., heavily: "Yes, I know. I've got one of the blame things on myself." He runs his finger around the inside of his collar. "Worst nuisance is these damn side whiskers. They itch. Never should have grown 'em in the first place. Only did it to please Belle."

Frank chuckles quietly. "Well, this is anniversary night, our night off, P. D.; let's forget our troubles. What shall we do?"

P. D. says firmly, "I'd like something to eat first, then I'd like to stretch out on one of those new sofas in the Student Lounge and smoke a good cigar."

"That's a good idea," says Frank. "Let's go."

The two shadows move off together, one a thick-set heavy figure, gesturing authoritatively, pointing here and there, stopping now and then to pound on a wall panel or to test a step. The other shadow is comment-

(Continued on page five)

When the Library search failed

...the telephone succeeded!

FIVE sophomores at a New England university had been assigned to report on the residential districts of a southern city, its principal products and the location of its plantations.

Hour after hour they thumbed through book after book in the library—all to no avail. Then one of them had a happy idea—why not telephone the city's Mayor? They did—and in a few minutes had all the information they needed.

No matter what the question—in college, in social life, in business—you'll find the telephone is often the quickest, most economical way to get the answer.

How about a telephone call to Dad's? Rates to most points are lower anytime after 7 P. M. and all day Sunday.

WELL, I SEE YOU'VE CAUGHT UP WITH PRINCE ALBERT. HOW DO YOU LIKE PIPE-SMOKING NOW?

SWELL! I'M SURE GETTING PLENTY OF MILD, TASTY SMOKING OUT OF MY PIPES NOW

PRINCE ALBERT

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50 PIPEFULS of fragrant tobacco in every handy pocket tin of Prince Albert

50 MILD
50 TASTY
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Smoke 20 fragrant pipefuls of Prince Albert. If you don't find it the mellowest, tastiest pipe tobacco you ever smoked, return the pocket tin with the rest of the tobacco in it to us at any time within a month from this date, and we will refund full purchase price, plus postage. (Signed) R. J. Reynolds Tobacco Company, Winston-Salem, North Carolina

PRINCE ALBERT

THE NATIONAL JOY SMOKE

Reporter Sees Tech Relays As Top Collegiate Track Classic

STARS SMASH RECORDS

By Warren Spitz

Another milestone in the road of Armour achievement was passed, last Saturday night, as over three hundred sturdy athletes from every section of the midwest staged the eleventh annual Armour Relays in a manner unequalled in track successes. Vigor and keenness were featured in all events and top-notch performances were presented by unknown stars as well as by men of reputed caliber.

The setting was one of ideal conditions, the track being firm and well kept and jumping pits outfitted with new bars and fresh, clean sawdust. Officials, newsmen, and coaches mingled with the tracksters as they gradually warmed up, while wearing their gayly colored sweat suits. Occasionally a spectator from the well filled stands would rush out onto the track to obtain the autograph of his favorite and would return to his seat with the coveted signature.

Hackney Takes It Easy

Early in the evening, unnoticed by most of the audience, Elmer Hackney, of Kansas State, set a new Relay record in the shot-put. The giant All-American grid star seemed to put little effort into throw as he bettered, by over three feet, the existing mark of 48 feet 4 inches. Hackney's record toss was made on his first try. A fault was declared on the second attempt and as onlookers were awakening to the prowess of the star, he put a third shot three inches past the first.

All eyes were on the straightaway as the sprinters towed the mark in the university seventy yard dash, which was expected to be a duel between Piker of Northwestern, Kaufmann of Wisconsin, and Davenport, Chicago star. Kaufmann had equaled the existing record in his semi-final heat and was the favorite, but, as happens in many close races the Wisconsin ace pulled a muscle and was handicapped in the finals.

Piker Leads Till Finish

Piker led the sprinters all the way until the lame Kaufmann and another runner pulled ahead at the finish. The race was won by a dark horse, Shelton of Marquette who equaled the record of 7.1 seconds.

A Negro flash from Wilson Junior College upset all competitors in the college dash as Rikli of North Central followed on his heels. The lad's name is Evans Walker and he is only a college sophomore. Intimates from Wilson claim that Walker will be among the fastest runners in the country in a few years.

Grindle Poor Prophet

During the record-breaking two-mile relay run by Michigan Normal we overheard an interesting conversation between a track official and Grindle, Normal's first man. Having just given his team a nice lead, Grindle remarked that the team would cross the finish line ten yards ahead of their opponent. The official stated that Grinnell would outrun the Michigan four and boasted of the speed of his favorites. Grindle was a little off on the final result however because his team outrun the second squad by forty yards instead of ten. Tsk-Tsk.

Amongst the few spills of the evening one of the victims was Harv Rothenberg, Armour star, who slipped in the college sprint medley relay. Almost as soon as he had fallen, Rothenberg was up like a flash and on his way, but the Armour rosters were doomed to disappointment again.

Burke Takes Time

Ed Burke, holder of the world's high jump record, drew the spotlight in his attempt to break the 6 foot 6 inch mark set by Charlie Bechel last year. Burke, Marquette's most famous son, brushed the bar three times and knocked it down, thus failing in his effort. Each jump took the champion about ten minutes as he flexed his muscles and took careful studies of every step in the runway.

Ten minutes after Thistlethwaite of Northwestern had set a new relay record of 13 feet 11 1/2 inches in the pole-vault, he missed a jump of less than eleven feet, while posing for photographers. The modest Northwestern vaulter landed on the edge of the pit and smiled with the audience in his embarrassment. Auto-graphers hounded him all night after his record-breaking act.

Fenske Fails To Break Record in Special Mile Run

"Chuck" Fenske, winner of the Columbian mile, tried and failed in an effort to better his own mile mark when he negotiated the Armour Tech mile in 4:12.5 last Saturday night in the special feature of the Tech Relays. The former Wisconsinite won his specialty, beating Tommy Deckard of Indiana by five yards.

Fenske and Deckard were the only entrants in the feature when Walter Mehl, who was substituting for Jimmy Smith, withdrew to run in the open college mile. In place of Mehl, Dick Cooper was entered as the pace setter.

First Quarter in One Minute

Cooper set a blistering pace for the first lap, bringing Fenske past the one-eighth mile mark in 29 seconds and the quarter mile in one minute. However in the second quarter the pace slowed and hope for a new record vanished as the time for the half mile was announced as 2:05.

At this point Cooper dropped out and Fenske moved on trailed by Deckard who remained about five yards in the rear. The third quarter was slightly better than the second, being timed in 64 seconds.

Deckard Makes Bid

It was at this point that Deckard made his bid pulling to within two yards of the leader but falling back when the Badger ace started his sprint. Deckard was left behind and Fenske crossed the finish line unchallenged.

While Fenske's effort was disappointing due to the terrific buildup given the feature, it was his second best effort of the year, being surpassed only by his Columbian Mile time of 4:11.1.

Rifle Club Points For Chicago U. Invitational

Having already won six of their eight matches, Armour's rifle team will try to improve their record when they go after their seventh win this week against Northwestern Naval Reserve. If past meets are any criterion, the Techawks should have little trouble in overcoming the seamen.

Indiana University and Drexel have been the only squads thus far who were able to cope with the Institute shooters, winning by three and four points respectively. Following the Naval meet, Wilmette will furnish the opposition with the University of Chicago Invitational in the offing. The latter is the high spot on the sniper's schedule and will be held on March 30, and April 1 and 2.

Anticipating the graduation of several vital men, the squad is already busily engaged in the building up of new material. Chief among the graduating gunmen will be George Bjornstad whose shooting has won several matches for the Techawks this year.

The greatest applause was given spontaneously to Walter Mehl, famed Wisconsin distance man, who practically single-handed, won the university two-mile and sprint medley relay events. Mehl ran anchor on both teams and came up from behind to win going away. Later in the show, Mehl ran a perfect race to edge out all competition in the one-mile open, thus scoring a triple feat for the evening. He didn't run in the match mile, but his place was taken by a teammate, Cooper, who paced the great Fenske for the first two laps in the special feature event.

Fenske ran a good race, but wasn't forced into record time. A slow second quarter put "Chuck" a way off balance in his record attempt.

Medals Coveted by All

It was interesting to note the faces of the athletes wreathed in smiles as they received the beautiful medals and cups awarded to the winners.

All in all, the eleventh Relays was a credit to Armour and to all, who competed in the affair. Next year, the stars will go to even greater performances and in time the Tech Relays the track classic of the nation.

Shelton Ties Record



Walter Shelton, Marquette's star sprinter, pulls an upset and ties a record as he noses out Kauffman of Wisconsin and Pikers of Northwestern in the 70 yard dash.

(Printed thru the Courtesy of the Chicago Sunday Herald & Examiner)



Number Eleven

Last Saturday, Armour acted as host to some 400 track and field athletes who, although highly touted, were hardly expected to crack four classic records and to tie another. The scene again was the University of Chicago Field House and the occasion, in case you may have been wondering, was the eleventh running of the now famous Armour Relays. Individual honors were again carried away by a Wisconsin Badger. Instead of its being Fenske this time, it was Walter Mehl who was the bellwether of the Wisconsin team.

Fenske vs. Deckard

The main topic of the night was the match mile with Wisconsin's famous Fenske running against Indiana's Tommy Deckard and with Dick Cooper of Wisconsin doing the pace setting for the first 850. We need not mention the 4:08.9 American Collegiate record set by Fenske last year. He was out to better this effort and for the first 660 was well on his way. At that moment, he was timed in 1:31 which was two seconds under the time at the same point last year. Then the pace lagged and the fourth and fifth

220 sections were run in 68 seconds which was about four seconds above the agreed pace. The last quarter went at 63 seconds which was almost equal to last year's time at this point; yet the vital seconds had already been lost and only a 59 second last quarter would have saved the record. Even for a man of Fenske's calibre, in view of the competition, this was expecting just a little too much.

They Grow Strong Out In Kansas

Record shattering began almost with the first heave of the 16 pound ball in the shot. On his first effort, Kansas State's Elmer Hackney was considerably over the 51 foot mark. From that point on, he increased the distance until the finals showed 51 feet 9 1/4 inches. This chap has taken the measure of Michigan's Collegiate champion Bill Watson on several occasions the last of which was at the Illinois Relays when he cast the brass shell 51 feet 3 3/4 inches for a new record. There is scarcely a question that this lad will carry the stars and stripes to the winner's mat at the time of the 1940 Olympics.

So as before, we come to the end of our string. In closing this 73rd issue of the Shorts, our hope for Armour Institute is that the next year will show as much advancement in all directions that the Relays showed this year.

ART JENS '31.

Summary Armour Tech Relays

UNIVERSITY DIVISION
70 YARD DASH—Won by Shelton, Marquette; Kauffman, Wisconsin, second; Piker, Northwestern, third; Ashley, Illinois, fourth; Black, Marquette, fifth. Time: .97.1.
200 YARD DASH—Won by Wisconsin (Cooper, Fenske, Buxton, Mehl); Illinois, second; Marquette, third; Kansas State, fourth. Time: 2:58.3.
SPRINT MEDLEY RELAY (440-220-220-880)—Won by Wisconsin (Petrie, Darling, Mueller, Mehl); Marquette, second; Kansas State, third; Michigan State, fourth; Chicago, fifth. Time: 3:33.6.
440 YARD RUN—Won by Toole, Kansas State; Downs, Illinois, second; Rusley, Northwestern, third; Schenck, Wisconsin, fourth; Butler, Marquette, fifth. Time: 5:59.6.
70 YARD HIGH HURDLES—Won by Finch, Northwestern; Hotchkiss, Kansas State, second; Schweppe, Marquette, third; Wasson, Chicago, fourth; Hathaway, Northwestern, fifth. Time: 3:08.8.
MATCHED ONE MILE RUN—Won by Chuck Fenske; Tommy Deckard, second. Time: 4:12.5.
70 YARD LOW HURDLES—Won by Shurilla, Marquette; Robinson, Michigan State, second; Schweppe, Marquette, third; Gurdien, fourth; North Central, fifth. Time: 3:06.5. (New record. Old record 3:07.9, made by Illinois Normal in 1934.)
70 YARD DASH—Won by Walker, Wilson Junior College; Rikli, North Central, second; Tozlat, Milwaukee Teachers, third; Terwilliger, De Kalb Teachers, fourth; Powers, Grinnell, fifth. Time: .97.2.
ONE MILE RELAY—Won by Illinois (Ashley, Downs, Krivco, McGowan); Marquette, second; Michigan State, third; Wisconsin, fourth; Kansas State, fifth. Time: 3:25.4.
COLLEGE DIVISION
TWO MILE RELAY—Won by Michigan Normal (Grindle, Hughes, Quinn, Zempert); Milwaukee Teachers, second; Grinnell, third; Gurdien, fourth; North Central, fifth. Time: 8:06.5. (New record. Old record 8:07.9, made by Illinois Normal in 1934.)
70 YARD DASH—Won by Walker, Wilson Junior College; Rikli, North Central, second; Tozlat, Milwaukee Teachers, third; Terwilliger, De Kalb Teachers, fourth; Powers, Grinnell, fifth. Time: .97.2.
ONE MILE RELAY—Won by North Central (Rikli, Stanger, Arlen, Wagner); Michigan Normal, second; Grinnell, third; Illinois State Normal, fourth; Carleton, fifth. Time: 3:27.6.
70 YARD HIGH HURDLES—Won by Thompson, Western State Teachers; Bailey, Grinnell, second; Ralston, Coe, third; Jamnik, Wilson Junior College; Miller, Michigan Normal, fifth. Time: .99.2.
440 YARD RUN—Won by Wagner, North Central; Moore, Coe, second; Rogel, Iowa Teachers, third; Clark, Michigan Normal, fourth; Corvick, Armour, fifth. Time: .49.4. (New record. Old record, 50 seconds, made by Her, Northwestern, 1936.)
70 YARD LOW HURDLES—Won by Powers, Grinnell; Mayer, Iowa Teachers, second; Miller, Michigan Normal, third; Ralston, Coe, fourth; Meeson, Iowa Teachers, fifth. Time: .58.8.
SPRINT MEDLEY RELAY—Won by North Central (Rikli, Stanger, Arlen, Wagner); Michigan Normal, second; De Kalb, third; Iowa State Teachers, fourth; Grinnell, fifth. Time: 3:42.5.
HIGH SCHOOL DIVISION
HALF MILE RELAY—Won by Crane (Kawalik, Taylor, Malloy, Sarley); Englewood, second; Tilden, third; Austin, fourth. Time: 1:36.2.
OPEN DIVISION
SHOT PUT—Won by Hackney, Kansas State; Mills, Nebraska, second; Wibbels, Nebraska, third; Malisch, Wisconsin, fourth; Rendleman, Chicago, fifth. Distance—51 feet 9 1/4 inches. (New record, old record, 48 feet 4 inches, set by Davis, Hillsdale, in 1935.)
HIGH JUMP—Won by Burke, Marquette; Best, Wisconsin, second; Harrier, Wisconsin, third; Northwestern, fourth; Robinson, Illinois; Morningstar, Michigan Normal, and Pfahl, Grinnell, tied for third. Height 6 feet 4 inches.
POLE VAULT—Won by Thistlethwaite, Northwestern; Cassels, Chicago, and Stagner, Marquette, tied for second; Gardner of Wisconsin, White of North Central, and Robinson of Grinnell, tied for fourth. Height 13 feet 11 1/2 inches. (New record. Old record, 13 feet 9 1/2 inches, set by Padway, Wisconsin, in 1938.)
ONE MILE RUN—Won by Mehl, Wisconsin; Pedler, Western State Teachers, second; Wickelsham, Marquette, third; Toole, Wisconsin, fourth; Mitchell, Kansas State, fifth. Time: 4:23.2.
880 YARD RUN—Won by Buxton, Wisconsin; Holker, Marquette, second; Quinn, Michigan Normal, third; Merriam, Chicago, fourth; Haymaker, Kansas State, fifth. Time: 1:59.8.

Gym Practise Bears Fruit As Pitchers Start Bearing Down

RELAYS—

(Continued from page one)

the field, giving Wisconsin firsts in those events.

Elmer Hackney of Kansas State showed his prowess in putting the shot by heaving the metal ball to a new record distance of 51 feet 9 1/4 inches. His feat is notable in that it not only broke the record, but that it shattered the old mark of 3 feet 5 1/4 inches. Also in the record break—Thistlethwaite of Northwestern who vaulted to a new high of 13 feet 11 1/2 inches in the pole vault, and thus broke the one year old mark of Wisconsin's Padway. College teams also did their part to lift the Tech games to an even higher level by establishing two new marks. Wagner of North Central covered the 440 in the college division in .49.4 to lower the old mark by 0.6 seconds. In the two mile relay of the college division the Michigan Normal team stepped out to a record time of 8:06.5. The record in the 70 yard dash in the university division was tied twice. In the semi-finals Kaufmann of Wisconsin equaled the mark of .07.1 as did Shelton of Marquette in the finals.

Three Firsts for Winners

In winning the team trophy Michigan State Normal scored three firsts, one tie for first, and three seconds. The Michigan Normal men seemed to have a group of husky shot put artists for they took both first and second places in that event in the college scoring. North Central's relay team of Rikli, Stenger, Arlen, and Wagner scored almost a half of the Naperville team's points by coming out victoriously in the college one mile relay and the college sprint medley relay. In the pole vault the North Central men also proved their worth by gaining ties for the first and third places in the college scoring of that event. White, North Central, and Walters, Grinnell tied for first places honors, while Mazza, North Central, and Frid, Michigan Normal, were deadlocked for the number three position. An unusual event occurred in the pole vault in that three men shared honors for fifth place. Elwood, Armour Tech, Allen, Northern Teachers, and Morningstar, Michigan Normal, each earned a third of a point for his team.

Among Grinnell's points were one first, two first place ties, two seconds and, two thirds. Powers of Grinnell showed his heels to the rest of the field in the college divisions of the 70 yard low hurdles to win over Mayer of Iowa Teachers. Pfahl, Grinnell, and Morningstar were quite evenly matched in the high jump, participating in a five way tie for third in the open division and tying for the first position in the college scoring.

Mehl Star of Evening

The university two mile event proved to be of the most thrilling events of the games, and brought the crowd to its feet due to the close finish. In this race Mehl showed how an anchor man should run as he came up to pass the Illinois anchor man and break the tape. The first three teams, Wisconsin, Illinois and Marquette were all close at the finish with but ten yards separating the first and third place men. The university sprint medley relay also caused some thrilling moments before it was won by Wisconsin. With Petrie running the 440, Darling the 220, Moeller the second 220, and Mehl finishing up with a steady 440, the Wisconsin boys took first place honors.

Armour did not play such a very conspicuous part in the games, but they were a very gracious host. Last year the Armour team was able to collect 18 points for fourth in the games, but this year the 2 1/3 points relegated them to the last position. Beside Elwood's part in the three way tie for fifth in the pole vault, Corvick gave Armour a fifth by his running in the college 440, and Vandekieft placed fifth in the college scoring of the shot put. The Armour fans had a chance to cheer when Armour took the lead in the first lap of the college medley relay, but this advantage was soon lost and the home team failed to place in the event.

Coach Has to Build New Team

While major league teams are training in the South, Armour baseball squad has been practicing in the gym in anticipation of an early start of the season. The squad will take to Ogden Field as soon as the weather permits and daily practice will become the custom.

Practice so far has been limited to easy throwing and has been particularly for the pitchers and catchers, consequently the hurlers are expected to be ahead of the batters when the latter get their turns at the plate.

All Positions Open

Due to the loss of eight lettermen, Coach Stenger and Captain Kruse are faced with the problem of completely rebuilding the team that two years ago won the championship. Graduation left the squad without an experienced infielder, all five having left, and the chief worry is located in bolstering the inner defense.

At present, it appears as if Leonard is set at shortstop but that's all that definitely can be said about the infield. At first, Lyckberg and Tullgren will battle for Tommy Green's old spot with neither one having an edge at present. The guardians of second and third base are unknown and will most likely be new men.

Kruse Might Play Outfield

In the outfield, Kruse appears to be the only letterman returning unless Willie Kruse decides to play the center garden and let someone else do the hurling. However this latter possibility is doubtful as "El Capitan" stands head and shoulders above the rest of hurlers.

Behind the plate, Bauch, major letterman, will battle Rehwaldt for the job. Last year as a freshman Bauch understudied Captain Seidenberg and replaced him when the latter came up with a bad knee after the Lake Forest game.

Mound Staff Strong

It will be on the mound that all of Armour strength will be mustered and there especially in the right wing of Kruse. Last year Willie split assignments with Joe Pacocha and between them, they gave the opposition plenty to worry about. This year Pacocha didn't return to school so Kruse is left alone.

Of the other hurlers Alex Yursis is expected to show the most although neither Penn nor James can be counted out. Yursis possesses a terrific fast ball which if controlled will win several games for the Techawks.

RECORDS—

(Continued from page one)

mal, and Herman of Carleton, when he breasted the tape in 7.1 seconds, tying the Relay record.

The record was again equaled in the finals when Shelton of Marquette pulled the upset of the meet by beating both Kauffman and Piker of Northwestern in one of the closest finishes in Relay history.

Thistlethwaite Does It Too

In the pole vault, Ed Thistlethwaite of Northwestern set a new mark when he traversed a height of 13 feet 11 1/2 inches, bettering the old mark by 1 1/2 inches. The former record holder, Padway of Wisconsin, was not on hand to defend his title having traveled to Butler for the Hoosier Relays.

Thistlethwaite left all opposition behind at 13 feet 6 inches and after scaling 13 feet 8 inches moved to 14 feet. Three efforts were necessary before he made it but the official measurement insured a new record of 13 feet 11 1/2 inches.

North Central Star in 440

The last individual mark to fall went to the Cardinal star from Naperville, Wagner who clipped 6/10 of a second from the previous mark of .50 for the quarter mile. Despite the fact that he won by nearly twenty yards, Wagner covered the distance in the same interval as did Howells in winning the Big Ten championship in record time.

Michigan Normal, winner of the Armour Tech Cup, also set the record man in search of pen and ink when they swept through the college two mile relay in 8:06.5. This better a five year record by 1.4 seconds. It was the stiff competition offered by Milwaukee Teachers, and Grinnell that pushed the champs to a record breaking performance.

Wrestlers Finish Tough Season; Win Seven of Eleven Matches

Show Perfect Record on Home Mat

By Floyd Anderson

In a schedule filled with bruising battles and formidable foes, the Tech wrestlers were able to come through with a 7-4 record for the season. During the process of building up this record, the tusslers ran up a total of 193 points while surrendering 165 points to their opponents. An idea of the strength of the opposition can be obtained by a glance over the schedule which included bouts with Wheaton, Case, Purdue, and DeKalb, all strong opponents.

This year's team, under the guidance of Captain "Buss" Tullgren, started off the season on the right foot by overpowering Morton Junior College 26-10. Traveling to Wheaton for their second meet, the wrestlers met one of the strongest teams in the middle West and went down to a 28-6 humiliation. Despite the large score, the matches were all close and several could have gone either way.

Lose at Purdue

Defeat again hit the team when they traveled to Purdue. Here they wrestled under the point system instead of the customary time advantage and were defeated 27 to 5. Winning ways were once more resumed when the Techawks returned to their own gym and trounced Morton with a 34½ to 1½ score. The Morton victory was by far the most overwhelming one enjoyed by the Institute this year.

Loss No. 3 was the result of the trip to DeKalb which saw Captain Tullgren at the helm. Wrestling under the referee's decision system, the

Jr. Chems Picked As Team To Beat In Softball Meet

Although softball is still weeks away, preparations have already been started for the opening of the annual intramural tournament which has of late become the main item in the line of intramural activities. Because of the interest in this tourney and for the purpose of giving the students an idea of what to expect when the fight starts, this column will for the next few weeks present a summary of the teams which we believe will be on top when the chips are counted and cashed in.

The first team to be placed under the microscope will be the runners-up in last year's tournament, the present Junior Chemicals. It was the Chemicals of '38 who won the last game from the surveyed team, emerging with a 6-4 decision.

Kremer Takes Over

This year the chemicals will be almost completely revised including the management. Jesse Kremer, assistant in the bookstore, has agreed to take over the schmiere and to guide them through the coming season. Jesse will succeed Jim Fahey at the helm of the previously unmanageable chems.

According to Jess, the probable lineup is still very much undecided as he has, as yet, not had a chance to look over the new material that is sure to show up with the announcement of the new manager. The new manager is expecting a turnout of about twenty men when he calls them out for the first practice.

Three Positions Set

Despite Jesse's reluctance to discuss his team, several positions can be marked down as certain, among them first base, shortstop, and pitcher. At first Lloyd Norkus is set for more than one reason. In addition to his ability at first, Nork has a

Tennis Team Calls For Candidates This Week

With an early spring in the offing and a heavy schedule to be faced, Armour's tennis team, under Manager Harold Anthon and Captain Nick Natinchek, is making plans for an early start of the pre-season practice sessions. Indoor practice at the 108th Engineers Armory is scheduled to begin next week and it is during these practices that the new men will be given their chance to make the squad.

All students who are interested in trying to win a place on the team have been requested to register in the bookstore, giving their name, year, and experience, if any. It is essential that this information be in Manager Anthon's hands by the end of this week so that arrangements may be made for the use of the courts. Definite announcement of the starting time will be published on the bulletin board in the lobby of the Main Building.

This year the new men will have to oust veterans from the team as only one man was lost by graduation, that being Joe Kubic. Returning to compete for the black and gold will be in addition to Captain Natinchek, Ed Swanson, last year's captain, Lange, and Wagner. Last year, this squad finished a twelve game schedule with a record of eight wins, three losses, and a tie.

great dislike for the outfield and the consequent walk from the hinterland.

At short, Nick Natinchek is expected to hold out despite a weak bat. Natinchek has consistently been the best fielding shortstop in the tournament and he'll be moved only if his ability is needed elsewhere.

On the mound for the chemicals will again be Jim Fahey who has pitched but two losing games in tournament ball in the past two years, one being last year's final. However Jesse isn't counting on Fahey alone but expects plenty of help from Sher, Kalnin, and Doolittle during the course of play.

Despite good fielding and a formidable pitching staff, Herr Kremer believes it will be the power at the bat that will bring the team through to

Wrestlers Entered In Central A.A.U.

Armour Tech has entered a full team of grapplers in the Central A.A.U. wrestling championships, which this year are sponsored by the Daily Times of Chicago. This meet will close a very successful season in which the team has gone through a tough schedule and won seven out of eleven matches.

Weighing in and pairings for the wrestlers will be in charge of A.A.U. officials and will take place during the early part of this week. Fighters in all divisions will tee off in the preliminaries on Thursday and Friday and the survivors tussle in the quarter-finals on Saturday, March 25.

Techawk Coach Weissman has sent in entries for Captain Tullgren, Kazmierowicz, Balsewick, Wolniak, Butkus, Nigrelli, Hanna, and Till. Others are McDaniel, Ropek, Harrison, and Wagner.

At least three of the Armour men are expected to place high in the final A.A.U. rankings, Tullgren, Kazmierowicz, and Till heading the possible winners in their respective weight classifications.

Armour will enter the competition in the McKinley Park arena this Friday. Despite their fine record, the Techawks aren't expected to walk off with titles due to the severe competition presented in this tournament annually.

With the conclusion of the A. A. U. affair, three Techawks will have completed their college careers as McDaniel, Ropek and Captain Tullgren are due to graduate.

the finals again. In Petri and Sher, the chems have two of the hardest hitters in the school. During the past summer school tournament, Sher hit Machinery Hall consistently while Petri peppered the baseball screen in right field. Norkus, Grigas, Cultra, Puhl, and Meyer make up the rest of as dangerous a list of swingers as has faced any Armour softball pitcher, so despite their tendency to blow up when the chips are down, mark down the Junior Chemicals as the team to beat.

(Next Week—Sr. Electricals)

Swimmers Trounce Herzl Twice In Week; Win 42-24, Then 45-21

After two heartbreaking defeats by the hands of Bradley and DePauw, Armour again found the winning trail by decisively whipping Herzl Jr. College at the west sider's pool last Tuesday afternoon. The score was 42-24.

Herzl, led by Dash, a free styler and breaststroker of considerable merit, proved to be easy victims for the engineers. While keeping the west-siders to gathering but two first places, both won by Dash, Armour snatched the remaining five blue ribbons.

Relay Team Wins Again

With the relay team taking a quick lead, they easily captured the first event of the afternoon. Then Dash showed his wings to Stowell and took one of Herzl's few first places. Dependable Dodge again came through by leading the pack, with Pettes close on his heels through the five lengths of the 100 yard free.

For an innovation, the 60 yard back stroke was swum instead of the customary 100 yard distance. However, Blume found the way easy, and went on to win with DeMoney taking an easy second. As is his usual custom, Ray Dodge won the 220, but not being pressed at any time, it took almost 3 minutes for the 11 lengths. To end up the runaway meet, the medley team of Huxhold, Hutchings, and Rademacher lapped their opponents while winning in the time of 1:13.6.

Summaries at Herzl:

160 YD. RELAY: Won by Armour (Anderson, Rademacher, Huxhold, Winblad). Time, 1:25.0.

100 YD. BREAST STROKE: Won by Dash (H); Stowell (A), second; Radous (H), third. Time, 1:10.0.

100 YD. FREE STYLE: Won by Dodge (A); Pettes (A), second; Bouhrer (H), third. Time, 1:02.5.

40 YD. FREE STYLE: Won by Dash (H); Anderson (A), second; Winblad (A), third. Time, 20.1.

60 YD. BACK STROKE: Won by Blume (A); DeMoney (A), second; Mosco (H), third. Time, 41.9.

220 YD. FREE STYLE: Won by Dodge (A); Mathewson (H), second; Dash (H), third. Time, 2:51.6.

120 YD. MEDLEY RELAY: Won by Armour (Huxhold, Hutchings, Rademacher). Time, 1:13.6.

Ending their season, the Armour Tech swimming team again whipped Herzl Jr. College team, 45-21. This last meet of the year was held in Bartlett pool last Thursday night.

Swimming for the last time for Armour was Capt. Winblad, who continued his brilliant leadership, a reputation that he had established during his freshman year.

By winning from Herzl, the Techster's made a season's record of 7 wins and 5 losses. Armour took all but one first place last Thursday night. Dash, a startling good breaststroker, managed to outswim Beil very rapidly. His time of 1:10 was the best time of the year for the 100 yard breast stroke.

Experience Little Trouble

None of the events were close. The relay team won by a length while the medley team also lapped their opponents. As usual, Talcott and Blume matched strokes for about three lengths. However, Blume hit up a faster pace and pulled ahead to break 1:13 for the 100 yard back stroke.

Winblad was a leading factor in the team's winning of both of the relays, while Pettes took two finals. After laying dormant for the first three lengths in the 100 yard free, Pettes threw off his water wings and sprinted to overtake Anderson at the finish. He also beat out Dash in the 40 yard free.

160 YD. RELAY: Won by Armour, (Anderson, Rademacher, Huxhold, Winblad). Time, 1:24.8.

100 YD. BREAST STROKE: Won by Dash (H); Bell (A), second; Hutchings (A), third. Time, 1:10.0.

100 YD. BACK STROKE: Won by Blume (A); Talcott (A), second; Mosco (H), third. Time, 1:12.5.

40 YD. FREE STYLE: Won by Pettes (A); Dash (H), second; Zemie (H), third. Time, 20.4.

220 YD. FREE STYLE: Won by Dodge (A); Mathieson (H), second; Mankus (A), third. Time, 2:37.5.

100 YD. FREE STYLE: Won by Pettes (A); Anderson (A), second; Benowitz (H), third. Time, 1:03.0.

120 YD. MEDLEY RELAY: Won by Armour, (Huxhold, Stowell, Winblad). Time, 1:12.7.

Wrestlers' Record Won 7, Lost 4

Armour 26	—Morton 10
Armour 6	—Wheaton 28
Armour 5	—Purdue 27
Armour 34½	—Morton 1½
Armour 9	—DeKalb 19
Armour 24½	—Herzl 7½
Armour 19½	—Purdue 14½
Armour 17	—DeKalb 13
Armour 17	—Culver 13
Armour 9½	—Case 24½
Armour 23	—Herzl 9

Techawks were able to obtain only three decisions while the Teachers emerged with two falls and three decisions to cop a 19 to 9 verdict.

Start Streak at Herzl

Starting with a 24½ to 7½ triumph over Herzl, the Techmen started a string of four straight wins before taking their final loss of the season against Case. Following the Herzl meet, the matmen avenged their previous beating by Purdue by nosing out the Boilermakers, 19½ to 14½ in the Armour gym. Fifteen of the Armour points were the results of pins.

Since revenge seemed to be in the matmen's hearts, they overcame DeKalb, 17-13, in the second meeting between the schools. Many anxious moments were spent before the meet was won with a decision by Harrison through time advantage.

Team Splits to Split

Due to the fact the Culver and Case meets had to be run on the same day, Coach Weissman split his squad into "A" and "B" groups. The "B" team was successful in its invasion of Culver, winning 17-13, but the "A" team encountered the toughest opposition of the season in their match with Case. The Cleveland men showed too much power and buried their visitors under a 24½ to 9½ avalanche.

The Techmen finished their season with their seventh win which was scored at the expense of the Herzl outfit, 23-9.

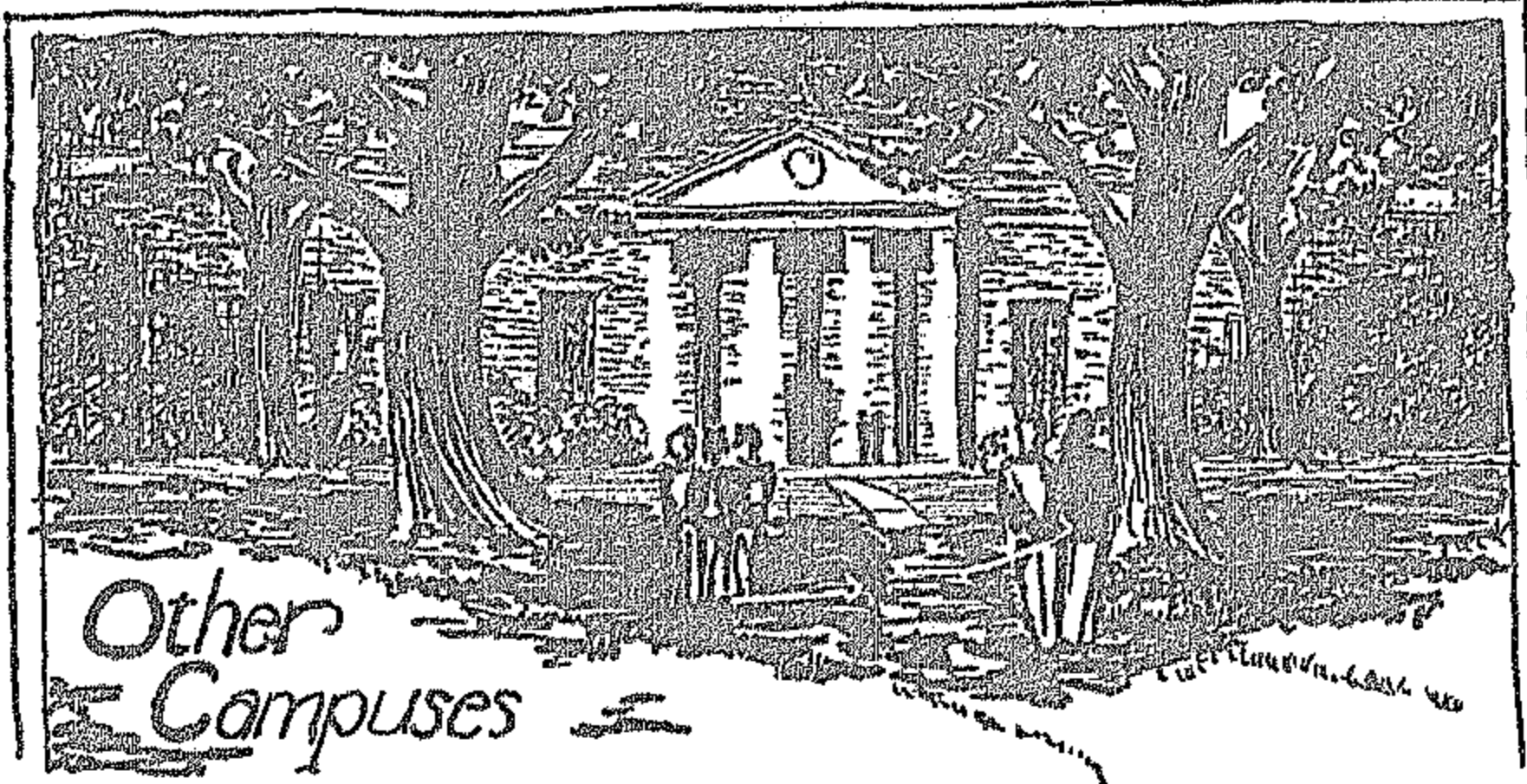
Outstanding among the grapplers this year was Till, 121, who was defeated only once and that time at Purdue. Captain Tullgren was another to enjoy a successful season, winning a majority of his bouts. Kazmierowicz became more proficient as the season advanced and along with Hanna will form the nucleus of next year's team.

I NEVER SAW ANYONE GET SO MUCH FUN OUT OF SMOKING

IF YOU WERE A CAMEL SMOKER YOU'D UNDERSTAND—CAMELS ARE Milder, WITH A RIPE, FINER FLAVOR



FOR SMOKING PLEASURE AT ITS BEST—CAMELS



Other Campuses

New York University's Dean Ned H. Dearborn is the first U. S. college dean to apply for membership in the American Federation of Teachers.

Since 1930, 64 per cent of the Rhodes Scholars have entered careers in public life.

University of Pennsylvania annually stages a "Good-will Week" to promote understanding among the students of various nations.

Skidmore College has transformed five barns into efficient studios and academic buildings.

Fordham University has a World's Fair personnel course to train workers for the New York exposition.

Loyola University (New Orleans) have a student group known as the Brotherhood of the Pipe Smokers Association.

The name of Columbia College in Dubuque, Iowa, has been changed to Loras College in honor of the pioneer bishop and founder of Catholic higher education in the northwest.

Eighty per cent of the Harvard University student body claims affiliation with some religious organization.

An original letter written by Poet Henry W. Longfellow has been given to Randolph-Macon Woman's College.

Members of the Villanova College faculty have attended more than 60 colleges and universities at home and abroad.

Dickinson college, Carlisle, Pa., has made participation in extra-curricular activities a requirement for graduation.

The library at the University of Illinois, housed in the large Georgian style building erected in 1925, ranks as the largest of all state university libraries, and fifth in size among university libraries throughout the country.

Texas Christian university has not lost a football game on its home grid-iron since 1935.

The University of Denver celebrates each year an Adam and Eve day, when each student receives an apple from the chancellor of the school.

The University of Colorado offered this fall a two-year course for the 53 per cent who spend only that amount of time in college.

University students are the worst drivers on the road, according to a director of the educational activities of the national conservation bureau. They are skillful enough, but lack the proper attitude.

A dating bureau charging 10 cents "to cover the cost of arranging the date" is being sponsored by the Town Men's association at Grinnel college.

GHOST STORY—

(Continued from page two)

ing in a rich, powerful voice on the subject of technological training for young men.

A little later the two are upstairs, stretched out comfortably in the Student Lounge. P. D. is studying a commercial journal, muttering now and then as his calculations reveal something to him.

Frank gets up, walks around the lounge, then wanders out into the balcony of the auditorium, as though seeking something. He walks around the balcony to the left slowly, running his fingers affectionately over the stained glass windows. He passes through the open door, and comes to another small, gray door. Opening this door he finds a narrow, dusty passageway leading to the old organ, now walled up. He squeezes up onto the old organ seat, runs his fingers over the stops, and fingers the keys. No sound comes forth, for the old organ has been disconnected, but still Frank keeps playing as though the very walls were leaping to the music.

Back in the lounge P. D. bursts forth with a final disgusted grunt as he spies the market quotations on pork. He flings the journal aside with a blistering comment on the New Deal, and wanders out to find Frank. He comes up quietly on Frank and watches him playing the silent organ. Frank looks up and speaks mournfully.

"They've disconnected it, P. D."

"Yes, I see."

"And they've redecorated the whole place," Frank continues still more mournfully. "It looks a lot different now, P. D."

"Yes, it does," says P. D.

Frank gets up from the organ, closes the top, and they squeeze out through the passageway. P. D. has a little difficulty in making it, for the old waistline isn't what it used to be. They pause at the balcony and stand overlooking the newly decorated auditorium. Finally Frank turns, and this time his voice is mournfully mournful.

"Do you think the boys have forgotten us, P. D.?"

P. D. thinks carefully before answering, then he says truthfully and bluntly, "Yes, I think so, but it doesn't matter, does it, Frank? We're accomplishing what we set out to do. It doesn't matter so much if they don't remember just who we are—or were, does it?"

"No, I suppose not. I guess you're right, P. D. . . . I guess you're right," replies the shade of Frank Gunsaulus.

They stand for a while, then move off, back toward the library. As they go, the shade of P. D. Armour sets his cigar at a vicious angle, and his voice is heard bitterly, " . . . but the way the government's restricting the producing of hogs today is the damndest thing I ever heard of . . . !"

Stoopbrain Wants Assembly Line Drawing Method; Makes An Extensible Blackboard

By Art Hansen

Deer Sally

Apellia Cider, famuss expert on affares of the hart, sed recently in adressng a selebrated groop of morons—quote: "The reeson sum girls where black garters iz for mourning fore those hoo hav passed beyond, unquote and how are yew, my deer little bag of mountin flour. In conference withe my taylor, I hav been so pressed for tyme that I haven't had a chance to rite for a few weeks. However, hear I am, brim full of sum new ideas that wil revolutionize skool. Of course, theze ideas iz still on the Q.T. as I havn't a yet presented them tew the dean. I am shure he wil like them, however. My first won iz the idea of mass produchun in drawing. Az it iz now, the boys sweat and labor, each trying tew figure how and wear tew draw the next line, each man trying tew draw a hole plate juste like hiz naybor. Under my plan, things wil bea juste like an automobile assembly line. The first man wil put on borders and name plate. The next wil put in center lines. The next guy wil start owt the front view, each man wil add a line hear and another line there. The plates w' pass up and down the rume. At the end of the rume the teachers, working in relays wil sine there names and grades. Then the drawings wil be rushel by air expres tew the gas lab wear they wil be turned face down and used (az at present) four table covers.

My next idea concerns the deplorable blackboard situashion hear at skool. Short professors hav a terrible tyme reeching half way up the bored, leevng a hole half blackboard unused day after day. I hav thot of cutting off the tops and adding them tew the top of the blackboards of the tall lanky profs. However, remembering that the densety of slate iz 2513.75, I hav figured it wood tak mea a cuple of yeers tew saw thru thiz stuff, soa I hav devised an elastic blackboard. It iz about won foot square. The teacher rites on it and then turns a crank. The bored expands in fore direchshions and presto, yew hav a blackboard ten foot

square. Wat a boon tew stewdents hoo draw naughty pictures on the bored.

Wel, the relays hav cum wonce agin, and gone. Wat games. Wat stunts. Wat speed. I liked best the won mile runner withe the fluid clutch. Such aceleration. Hea wuz no match fore the runner withe the overdrive, however. Wat I can't figure owt, however, iz why they goa around practically nude, withe only there underwhere on.

There iz soa many danzes at skool that I am going nuts. Last monthe, the soph brawl. A cuple of weeks ago wuz the junior prom. Next Saturday iz the second senior danze at skool, in the stewdnt union (local 212, algamated butchers). Next month iz the frosh jam sesshion at a downtown hotel, then the junior informal in May . . . my gosh, itz almost tyme for final exams.

The frosh wil no longer present theer track team around the streets of Armore, withe there cute little gren caps and the track sewts insted of pants. No siree, depantzng iz taboo.

Concerts, concerts, concerts, my grate voice haz ben in constant demand awl laste weak singing withe the glee club. I suspect the clube wea sang befour has radical tendencies frum Russia. Not that there iz direct evidence, but rotary means to rotate wich means tew revolve wich means revolutionary wich means communism. However, thiz iz pure logic, and wile I wuld get an "A" in logic withe it, I wuld get something much stronger frum other sources, so keap it under yewre hat, deer Sally.

Wea sang also at a hi-skool, and wile I may bea wrong, I think that they had red tomatoes in there hands. I can't prove it directly, once again, bekause after they hit mea, they were reduced to an area insted of a volume, wich wuz very unfortunate, indeed.

Well, az the girl hoo wuz bow-legged sed, I wuz pleasure bent, and hope yew're the same.

Yures,
Stoopbrain Bliss.

CO-OP NEWS

By H. Krantz

With McMacken setting the pace, accounting for 20 points himself, the freshmen Co-ops showed their basketball by smothering the sophs 50 to 17. The score was due partly to the fact that the sophs used only four men while the frosh used double that number. The question as to whom shall claim the Co-op trophy, will be decided when the freshmen tangle with the winners of pre-junior-junior game.

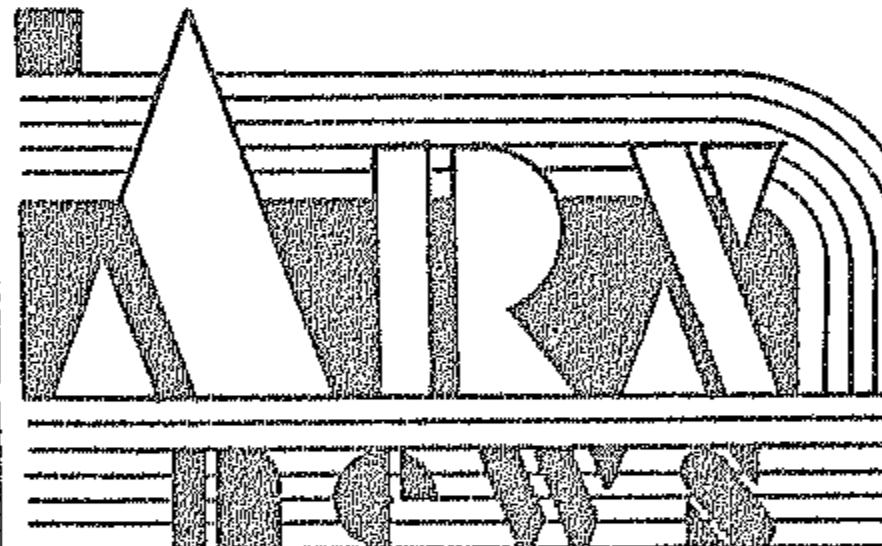
An authority on the direction of flow of water just preceeding a weir, is Gary Hallowich, 4A. A good portion of his time in the lab last Thursday was used in dropping soap flakes in the weir channel and observing the direction of motion of the flakes. He claims he'll publish his conclusions in his next lab report.

"Men are animals and animals crave salt" is being proved by Ed Schmitt, 4A. He's making virtual dope fiends of the class by feeding them salted pumpkin seeds, which sell for a penny a box. His usual sales talk runs as follows: "Here, taste one of these . . . ain't they good? . . . Here, have a box . . . You owe me a penny," and off he goes. Incidentally, the class will bow to anyone who can sell the janitor in Chapin a box of these "pills."

Glenn Wittekindt's "swell young thing" fulfills both requirements satisfactory, especially the latter. He's an Armour freshman and she's a high school freshman.

Competition for Ed Mock: R. A., a freshman co-op, is a real candid camera enthusiast who is going about the campus snapping unposed pictures with the same intentions as Ed has, namely: blackmail.

How he does it, nobody knows, but Pete Woods, 4A, must possess a unique talent for schoolwork. After the day's classes he throws his books into his locker and doesn't remove them until the following morning, when he does all his assigned work. Pete claims that his beautiful, nineteen year old, brunette secretary is invaluable in a pinch. (Others contend it's a "clinch.")



Revivication, revitalization, reorganization . . . ye Armour Architectural Society has definitely gotten that certain shot in the arm, so to speak . . . the Society is on its way to a more active life . . . speeches, speakers, entertainment, dances . . . ah, dances, beautiful girls and handsome Arx dancing together, cheek to cheek . . . what a sight.

What senior is going to return Prather's L-shaped house to him? . . . more important: when?

Enough of questions, now for sports, aye, sports . . . Ye Junior Arx Tennis Tourneyl, yes, a real tourney consisting a light racket—breaking Arx . . . Chairman, no, sleeping—Chairman Backdoor says: Dates will be announced soon, gush, gush . . . I hear from a reliable source that Goldsmith worried all last week because he ran second in the papal election. I kinda thot something was wrong . . . Fox is all knocked out about the Police Gazette . . . just say: pigeons to Pchta and he'll gush forth with his favorite story of the month about the pigeons reactions to Pointek . . . last Thursday was not visitors' day in life, but next week.

At the A.A.S. Smoker held last Thursday a reorganization plan was submitted and a Board of Control was elected to promote further activities of the society and to present a constitution to the students and faculty at an early date. . . . On the Board are Lindahl, chairman, Cerovski, Prather, Stowell, Dodge, and Center . . . there's rumors of lots of activity.

Did you see Scherer's pretty picture in the Tech News last week? . . . Just in case you don't know, he's the new captain of the varsity basketball team, good-going. . . . BOZ-ARTS.

STEAM SHOVEL

The A.S.L.S.S. forges on. With RUSS KOTAL ably pushing the membership drive (he being chairman of the membership committee), he nominates the following neophiles as pledges: THOMAS (RAH, RAH) YEAKLE, first suggested for the position of Sergeant at Arms but later revised to Women in Arms; EDWARD (NATIONAL COLLEGE) MARIK; GEORGE (4 GALS) HANNA, who has woman trouble from Wisconsin to Nebraska and back to Chicago; and HAROLD (PRETTY BOY) KRUSE, A-A Co-op who has so much woman trouble he sleeps all day in class to make up for the night before. Next week we will give you additional pledges. However, those with girl friends only 12 years old (as one junior meek) are not eligible. All those who qualify must be SUPER-WOLVES.

"Rupe" Weber, junior Civil will know better next time he goes down the outer drive at a 55 mile an hour clip at three in the morning. Doing this very stunt after the Junior Formal, a little man with goggles and a motorcycle jumped out of the bushes and nabbed him. However, he got out of it with a \$6.00 "fix." Wish I knew my alderman better.

The welding shop class serenaded Leon (McGuillieudy) Epstein with "My Wild Irish Rose" when he entered the room last Friday—St. Patrick's day.

. . . Speaking of the aforementioned Irish holiday, it is interesting to note that St. Patrick has been adopted as the patron saint of the mechanical engineers because he was the first to invent the "worm drive."

One budding engineer who would make a better butcher is STEVE "BUTCHER BOY" STEFFANSKY, who while forcibly shaving off half of "STUMBLE" SCHULTZ'S "cookie duster" Friday in the lunch room, also took off half of Fritz's lip. "Blood, red blood, red blood do I see" sang the glee club in the "Redman's Death Chant" and Steve followed through.

Embarrassing moments: At the glee club concert before the Rotary Club in the Grand Ballroom of the Sherman last Tuesday . . . "O. G." beamed and bowed as the chairman of the meeting complimented the glee club on their inspired rendition of the "Star Spangled Banner," "due to the great leadership of . . ." another bow and smile by Mr. Erickson, "of Mr. Stone . . ." Blush by our conductor. However, we feel he got gypped.

Mimiela feels sorry now that he gave his bicycle to his girl friend's brother, so as to get in good with her. . . . She jilted him and got married, as stated last week. However, he has a cute little blonde named Jean.

LOUTZENHEISER may be called the Mad Piper of Armour Tech. He was driving the boys crazy with those selections on his tonette, a stretched-out ocorina.

Finnogan and Jacobsen (Roy): You have cut us to the quick by your naughty actions during glee club rehearsal last Thursday. Our scouts report that Mr. Erickson had to ask you to gently transpose your mortal presence from the edifice, in other words, kicked you out for the evening. Oh, wild youth of today. They should be more moderate.

The Sherman Hotel Cafeteria head waitress couldn't believe her eyes during the time the glee club was eating their belated (but free) lunch after the Rotary concert. It seems that each person was allowed one roll and one square of butter. However, a certain four members sat near a table on which rested a cardboard box filled with about two dozen more rolls, and a bowl containing butter amid ice cubes. When the four left, the roll box was empty, and the waitress had salvaged a half empty butter bowl.

Famous quotes: Mangold—"The velocity of a stream issuing from an orifice is the same under similar conditions of head, whether the liquid is water, gasoline, kerosene or B-E-E-R." Nothing like a good head on a mug of beer going into my orifice.

There are five little letters—all the same combination, and it appear at least once and sometimes as many as ten times on every page of Gene Worcester's note book. They are . . . yes, they are—HELEN!!!

Where does Eggers go every Monday when he cuts "squirt lab" at the Underwriter's labs on Ohio St. It can't be that he is getting cokes and cookies from that little red-head at the corner delicatessen. You bet it is!

See toe Laer if you want a blind date at 2 A.M. Just call him up at that hour and he'll oblige.

Well, after seeing the boys run around at the Armour Relays last Saturday night in their shirts and shorts, I'm convinced that spring is here. Will see you at the Senior dance next Saturday.

JIM MURDAUGH

OF FREED-HARDEMAN COLLEGE, SCORED A STAGGERING TOTAL OF 78 POINTS, OR PRACTICALLY TWO A MINUTE, AS HIS SCHOOL CRUSHED BETHEL COLLEGE 115 TO 30!

THE NETS ALL BUT CAUGHT FIRE!

THE MAST OF SIR THOMAS LIPTON'S SHAMROCK IV IS NOW USED AS A FLAGPOLE ON THE NEW YORK UNIVERSITY HEIGHTS CAMPUS.

DR. WALTER C. JONES

OF THE BIRMINGHAM-SOUTHERN FACULTY IS A MEMBER OF NINE GREEK-LETTER FRATERNITIES!

•BUCKSHOT• 18,000 MA. AND PHD-DE-GREES ARE GRANTED ANNUALLY!

SIDELINES

It will make interesting reading some fifty years from now to see what the historians say about Adolph Hitler and his gang, with their European antics. Since the time of Caesar only one other individual has scored as many victories in as little time, and that was Napoleon Bonaparte. What an interesting contrast exists between Caesar, Bonaparte and Hitler. The first was a man of tremendous initiative, energy and organization. A general who led his troops into the wilds of the then Nomadic central Europe, and underwent the perils and discomforts that they did. Bonaparte, though physically small, was a military genius with a lust for power and an ability to acquire and profitably administrate it. Standing on a site of vantage he personally directed his armies, often against great odds, to win consistent victories.

Adolph Hitler on the other hand is not a great general, has none of the forceful and powerful characteristics associated with leaders, and most certainly does not have the personality that makes him popular with his associates. It is said of Caesar and Napoleon that they knew personally most every officer in their ranks. Hitler meets practically no one, and has few, if any real friends. Hitler far excels his predecessors in one respect. He is gifted with the golden tongue of oratory, and with his powerful speeches he has swayed Germany's masses into supporting him. The radio has greatly assisted him, though his strongest appeal is through personally witnessing one of his hypnotic flabusters. From a personal angle, Caesar, and especially Bonaparte, were fond of the fair sex. Hitler is no Romeo, and has about as much S. A. as a clam. Except for a Hearst news flash once in a while, the man has no Valentine aspirations. Weak, small, anemic in appearance, nervous and temperamental, Hitler, it seems, would make a far better sanitarium case than the virtual ruler of the lives of central Europe's millions. And there are those who hold it would be far better were he in a sanitarium with the other psychopaths.

What then, is there about this man that has brought him up from the ranks of a house painter to being the most influential personality in Europe? Caesar slew the Helviti and Nervu by the scores to attain his territorial conquests through the Gallic wars. Bonaparte sacrificed the lives of thousands of Frenchmen before he whipped the Italians, Germans, and Austrians into line with his Continental policy. Hitler has had no open warfare and yet has torn up significant treaties ("scraps of paper"), rearmad at will, and helped himself to Austria and Czechoslovakia. To accomplish these questionable ends it has not been his soldiers who have died, but in their stead thousands of intellectuals of the church, school and profession, as well as innumerable Jews who have not fitted into the scheme of Aryanism have had their lives and property taken from them.

One explanation for this phenomenal rise of power comes in the unusual combination of circumstances that presents itself today. German nationalism for ten years following the war sought something to cling to, and unfortunately found it in Hitler's brown shirts. German, and foreign capital as well, sponsored the rise of a powerful and aggressive party in Deutschland in order that an equality of nations might again exist and bring about rearmament. In previous centuries too, those peoples being oppressed wrongfully by superior exploiters were defended and assisted by their neighbors. Today the big boys sell out the underdogs and international morality is a myth. The close of an economic frontier and the rise of conflicting social and political ideologies in a world aching with economic depression has also greatly influenced the life of Europe in the past decade.

Caesar was assassinated by his Senate when it was felt he had outlived his usefulness. Napoleon's subjects revolted and drove him into confinement and consequent death. What the fates will do to Adolph's threads is another interesting matter which historians may also discuss some fifty years from now.

E. H. W.

Juicers Learn of Onion Juice

Electrical engineers who have never looked into the field of biology cannot know what they are missing. A fascinated group of junior "juicers" were all ears in last Thursday's A.C. circuit class as Dr. Reed told of opportunities in this phase of science. His own experience has been intensely interesting.

It seems that the biology department at the University of Texas was in a quandry. An onion root that had been nurtured carefully in a salt solution was generating an electric current, and sending it in all directions through its bath. A puzzling question arose: How much power did the onion root develop? The electrical engineering and mathematics department were called in. For weeks they worked on the problem. Reams of paper were wasted, heads turned gray, nervous breakdowns resulted. But finally a solution was obtained.

Assuming the onion root to be an elongated ellipsoid of revolution, successive integrations were performed between the limits of hither and yon. Before long a Fourier's series was brought into play; this was enough to subdue any onion root. With a weak "scrunch" the onion root succumbed, and lay helpless,—caught in the net of higher mathematics.

How proud the professors were of their achievement! But their triumph was short lived. Dr. Reed, who had played no small part in the proceedings was boasting before one of his classes. "Ah!" remarked one of his students, "the solution is entirely incorrect. You have neglected the periodic nature of complex functions. Elliptic entities, oscillating empirical energies, rotating tensors, and undulating spherical harmonics must all be given due consideration."

Full realization then dawned on Dr. Reed. It took him two weeks to recover from the shock and he has never been the same since. But men with a stronger constitution may be able to survive repeated trials of this nature. He suggests that students who have gone through four years at Armour might well be qualified to make the field of electro-biology their life work.

Tokio Chem Prof Visits Armour Tech Laboratory

Dr. Sakae Yagi, Professor of Chemical Engineering of Tokio University, Tokyo, Japan, was a recent visitor at the Department of Chemical Engineering. Dr. Yagi is in this country with the purpose of obtaining ideas in regard to chemical engineering instruction which may be used in the Department of Chemical Engineering at Tokyo, Japan.

Like many other visitors at the Institute, he was particularly interested in the kind and quantity of laboratory work done in chemical engineering.

POWER CONFERENCE—

(Continued from page one)

Mr. H. Halpern of Commonwealth Edison of Chicago and Mr. G. G. Post of the Wisconsin Electric Power Co. will present papers on electric power generation, transmission, and distribution. Central station technique will be discussed by Mr. A. P. Bailey, of Commonwealth Edison of Chicago, and an analysis of rural electrification will be made by Mr. B. E. Miller of the Wisconsin Power and Light Co. and Mr. V. M. Murray of the Wisconsin Development Authority.

Present Papers on Metallurgy

The metals field will be covered by Mr. J. C. Hodge of Babcock and Wilcox Co. and Mr. J. J. Kanter of the Crane Co., who will discuss high temperature metallurgy and allowable design stresses for welded parts respectively.

Other papers will include two studies on air pollution, one by Mr. R. V. Kleinschmidt of A. D. Little Co. and the other by Mr. Lloyd R. Stowe, Director of the Chicago Air Pollution Survey; a commentary on railway motive power by Mr. H. P. Allstrand of the Chicago and Northwestern Railway Co.; a paper on large power plant development by Mr. C. G. Daniels of the Commonwealth and Southern Corp., Mr. A. L. Rice of "Power Plant Engineering," and Mr. R. V. Terry of the Newport News Shipbuilding and Dry Dock Co.

Caterpillar Tractor Co. Employs Peoria Co-ops

Professor Lease's office today issued a report on the group of co-operative students working in Peoria. This group, all employed by the same company, the Caterpillar Tractor company, now totals fifteen men. Of these, nine are freshmen students and six are in the sophomore class. They make up the largest of the out of town group enrolled in the course.

The attention given the coop course by this company is typical of the keen interest shown by a great number of progressive companies in the Chicago area. In some concerns the student must take a quiz as he leaves one department for another and frequently he is advanced systematically through every department in the plant while he is on his working weeks. Knowledge and experience are 'plastered' on him at every turn.

The Caterpillar Tractor company prefers to select its co-op students from its own employees. The candidates must spend at least three months with the company before they are considered eligible for the course. The company then holds preliminary examinations at the plant to pick the men best qualified. Those selected are then given the questionable pleasure of passing before Professor Lease's battery of quizzes and tests.

KNOW YOUR PROFS

Wm. A. Pearl

"Say, where's Pearl? I gotta see him!"

"He's down in Harvey, Illinois today. Could I help you?"

"No, it's Pearl I gotta see. Fer the luvva mike! Harvey! No wonder I couldn't find him—Well, tell him I hafta see him tomorrow."

"Very well, sir. He's busy until four p.m., though, unless you catch him between classes."

"Himmmmm—What's his program tomorrow?" . . .

"Call for Dr. Pearl—Call for Dr. Pearl—"

"Looking for Pearl? I saw him go into the Research Bldg a minute ago . . ."

"Oh, there you are, doc. Just the man I want. Can I talk with you a few minutes?"

"Gee, I have about thirty calls to make during lunch, and I'll be busy until eleven tonight. I don't know how I can do it today. How about next week?"

"Well, I finally contacted him, although he was due in the city in about twenty minutes. But what can you expect of the man that is professor of mechanical engineering, director of shops, and a member of the Research Foundation at Armour Institute, besides being director of engineering of the stoker division of the Whiting Corporation of Harvey, Illinois?"

A native of the state of Washington, Dr. Pearl received his education at Washington State College. In 1916 he received his B.S. degree in mechanical engineering, and the following school-year he became instructor in mechanical engineering for his Alma Mater. After one year there, he became machinist, then apprentice instructor, and finally estimator of the engineering department at the United States Navy Yards at Puget Sound.

He then went back to Washington State College to be made Assistant Professor of Mechanical Engineering. After four years in this capacity, he completed his thesis, and was presented with his M.S. degree. For a year after that he owned his own shop in Portland. He then became connected with the Benson Polytechnic School in Portland as head of the gas engine and aviation departments.

After eight years there, he received his Ph.D. degree from the University of Michigan, and a year later, in 1935, he came to Armour Institute as Associate Professor of Mechanical Engineering and Director of the Engineering Shops. A year later he became engineer in charge of production of the underfeed stoker division of the Whiting corporation.

Last year several things happened all at once. Dr. Pearl was made Pro-

MOVIES—

(Continued from page one)

"Progress on Parade," a General Motors research picture; "New Romance of Glass," the phenomena of the manufacture of glass; and "Big Timber," the story of lumber from the tree to the finished wood.

On May Twenty-first, after the scholarship exams in the morning, the participants will be able to see the movies in the afternoon. The programs for May have not yet been made out, but no less an interesting schedule than April's has been assured.

Credit for organization of the Saturday movie programs goes to Irving Footlik, M.E. '39. Mr. Footlik has recently secured the cooperation of some of the members of the public speaking classes. Members have volunteered to visit their old high schools and attempt to interest principals in movies.

Professor of Mechanical Engineering, still retaining his position as shop director, at Armour. At the same time the Underfeed and Overfeed Stoker divisions of the Whiting Corporation were united, and Dr. Pearl was made Director of Engineering of the combined division.

Man! I'm sweating at the thought of the work he has to do, for this isn't all! He is a member of the Research Foundation at Armour, as well as of the Engineering Experiment Station Staff of Washington State College.

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a Combination that has thrilled millions all over the world.

a Top combination

The GREAT WALLENDAS the premier high wire artists of the world

... and the TOP Combination for more smoking pleasure is Chesterfield (the can't-be-copied blend)

The sun never sets on Chesterfield's popularity because Chesterfield combines ... blends together ... the world's best cigarette tobaccos in a way that's different from any other cigarette.

Chesterfield
... the blend that can't be copied

... the RIGHT COMBINATION of the world's best cigarette tobaccos

When you try them you will know why Chesterfields give millions of men and women more smoking pleasure ... why THEY SATISFY