



Vandekieft Wins Vice-Presidency in A.T.S.A. Ballot

Dunbar Will Succeed Heike As President

R. N. Vandekieft, a sophomore, was elected first vice-president of the Armour Tech Student Association in a hotly contested election held last Friday. C. W. Dunbar will automatically become the president, advancing from the office of first vice-president, to which he was elected a year ago.

W. J. Chelgren, a junior, was elected to the office of second vice-president, and E. Loutzenheiser, '39, will be the new secretary. Three hundred and sixty-five votes were cast in this election which is reported to be one of the closest in years.

Vandekieft's election is significant in that this is his first year at Armour. He has become well known through his activity on the track team and as a member of the Phi Pi Phi fraternity. Chelgren, who was secretary of the organization last year, merits the position of second vice-president on the basis of his all around activities as a student leader. Loutzenheiser has been outstanding as a scholar and as an officer of Triangle Fraternity. Dunbar, who is the present first vice-president, according to the constitution of the organization, is automatically promoted to the office of president.

The outgoing officers are E. A. Heike, president; C. W. Dunbar, first vice-president; W. A. Chapin, second vice-president, and W. J. Chelgren, secretary.

Record Number Are Expected at Frosh Scholarship Exams

Increasing interest in the competitive scholarship examinations is evidenced by the great number of candidates that will take the tests on Saturday, May 22, at the Institute. Up to date, 125 applications have been filed of whom one hundred have been interviewed. Open House each year accounts for many applicants. To care for new candidates, the freshman scholarship committee is holding office hours this afternoon and evening.

These scholarships provide tuition for the academic year 1937-38. The awards will be based upon a rating determined by competitive examinations, and by consideration of the personality, scholastic record in high school, extra-curricular activities, and the general fitness of the candidates. The examinations consist of a personal interview and a written examination in mathematics, physics and chemistry.

A new selection method having been inaugurated, candidates for four year five protection engineering scholarships will take examinations this year. There are more than forty applications on file already. Appointments will be made by the F. P. E. scholarship committee headed by R. M. Beckwith of Western Actuarial Bureau. The grades in the competition will be furnished to this committee by the freshman scholarship committee of the Institute.

Finnegan to Address N.F.P.A. This Evening

Professor Joseph B. Finnegan, director of the option of Fire Protection Engineering, will address the first general session of the forty-first annual convention of the National Fire Protection Association this evening in the Congress Hotel. His topic will be "Fire Protection Engineering as a Profession."

Professor Finnegan opens his address by stating that fire protection engineering is a vocation which merits the rating of a profession. He further goes on to say that although the purpose and ends of the profession may be very simply defined, the means that must be used in attaining these ends may tax the resources of even widely experienced men.

Fraternities Will Welcome All to Annual Open House

Repeating their open house of last year, the social fraternities at Armour will again entertain students and their friends at open house dances tomorrow night. Each fraternity will have an open radio dance at its house from 8:30 to 12:30 o'clock and all students with dates are cordially invited to attend.

This will be the second Annual Interfraternity Open House and is intended to acquaint non-Greeks with the social activities of the fraternities. It also provides a stimulus towards a better relationship between the fraternities and the general student body. At some of the houses special entertainment will be provided and refreshments served.

The following fraternities will hold open house: Delta Tau Delta, 3423 S. Michigan Boulevard; Phi Kappa Sigma, 3236 Michigan; Phi Pi Phi, 3131 Michigan; Pi Kappa Phi, 3337 Michigan; Rho Delta Rho, 3254 Michigan; Sigma Alpha Mu, 3333 S. Federal Street; Theta Xi, 43 West 33rd Street; and Triangle, 3222 Michigan.

Junior Informal Set for Saturday

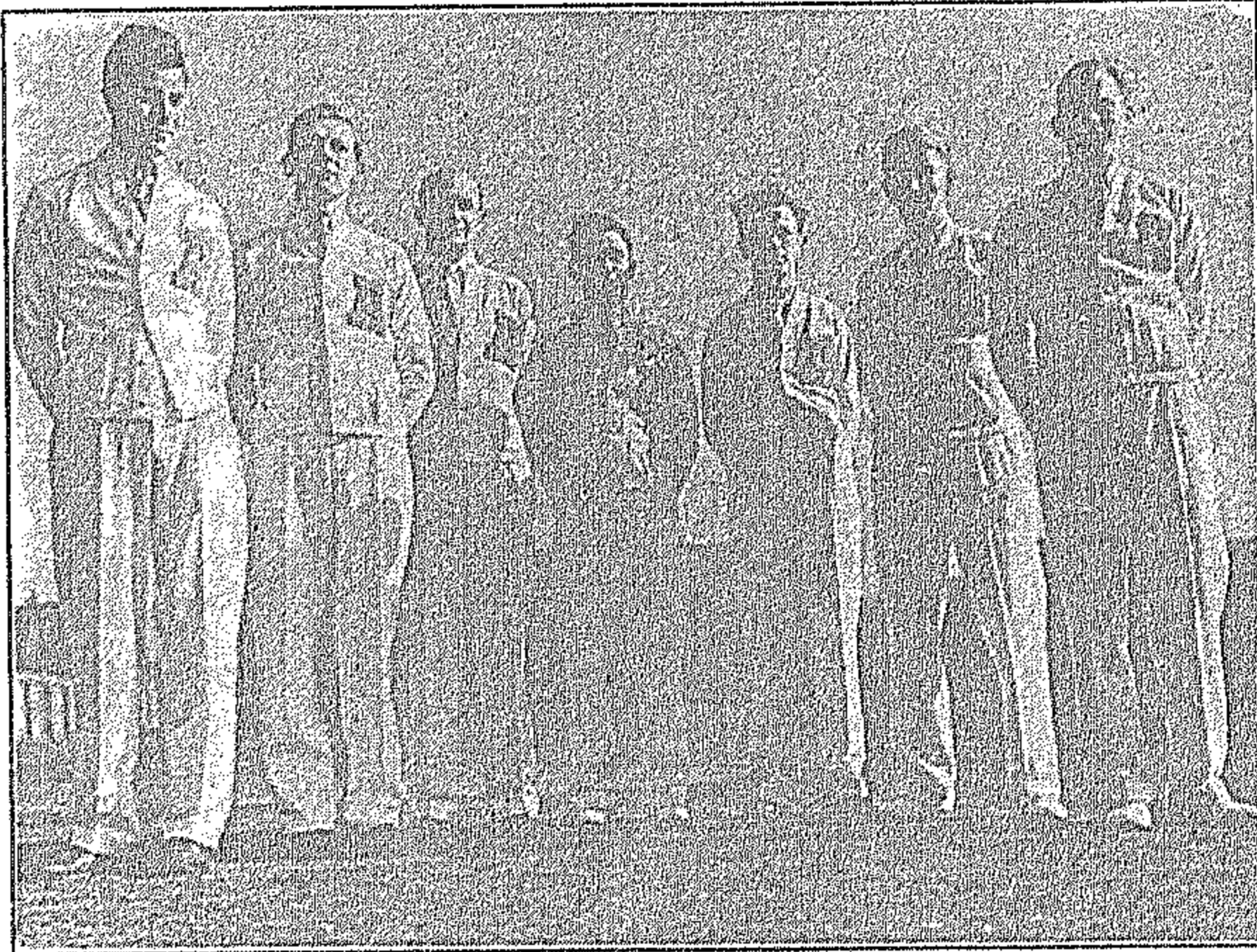
Keith Beecher and his orchestra, recently of the Continental Room of the Stevens Hotel, will afford smooth rhythmic music for the Junior Informal to be held at the Medinah Country Club May 15. This ten piece orchestra specializes in soft music, limiting "swing" to a few pieces.

The Medinah Country Club, chosen because of its beautiful surroundings and ample facilities, includes a veranda ballroom. Should the weather become inclement, however, the interior ballroom is sufficiently large to handle all the dancers with ease.

Saturday has supplanted Friday as the day of the dance to permit a greater number of students to attend. Dancing will be continuous from 9:30 until 2 o'clock.

The low price of the bid, \$1.75, coupled with the fact that this is the last open dance of the season, indicates a large gathering. At the present time there are over 400 bids circulating in the hands of the junior classmen. Bids may be secured from members of the social committee or the junior marshals.

Junior Marshals of '38



Reading left to right—J. D. Sheehan, E. F. Wagner, R. M. Faust, C. L. Basile, W. Litwin, C. K. Nauman, F. I. Hohenstreich.

Students Discard Textbooks for Thirty-Second Annual Junior Week

Hobo Parade to Lead Week's Festivities

With a sigh of relief Armour students this morning tossed aside their books, forgot homework and quizzes, and energetically entered into the activities of Armour's thirty-second annual Junior Week. In tune with the holiday spirit which so characterizes the week, a hobo parade officially heralded the start of all activities. Gorgeously attired in anything from gunnysacks to threadbare B.V.D.'s these pseudo Weary Willies presented a sight to behold as they paraded before the appraising judges.

Following this event came the "Beaver Contest." In this beard-growing derby the smoothly shaven contestants this morning appeared before the judges. Next Friday they will reappear for an inspection of their verdant stubble provided they escape arrest as vagrants in the meantime.

Frat Open House Tuesday

Starting at 8:30 Tuesday evening will be Fraternity Open House. All visitors are cordially invited to treat their lady friends to an inspection of the participating frat houses. Phi Kappa Sigma, Delta Tau Delta, Theta Xi, Phi Pi Phi, Sigma Alpha Mu, Pi Kappa Phi, Rho Delta Rho, and Triangle will welcome all visitors.

Schedule Freak Relay Race

The most important event of Wednesday will be the concert and interfraternity sing taking place in the evening at 8 o'clock. The numerous fraternities in conjunction with the Glee Club and Orchestra will present a musical program capable of delighting the most discriminating music lovers.

At 11:30 Thursday morning the junior-senior freak race will take place. Representatives chosen from each of the departments will compete in the freakiest race ever devised by the mind of man. It is rumored that the junior marshals worried themselves to a frazzle concocting these nightmares in the realm of sports.

Study Bituminous Coal

At 1:30 the pentathlon will be run. Competition will here be divided into two divisions: trackmen and non-trackmen. Those who are now on the track team and have not received a letter in track are eligible to compete in either division. However, if they compete in the non trackman division 1% of their total score will be deducted for each point which they have earned towards a track letter. Scoring in the pentathlon will be conducted as follows:

Each man will start with 1000 points in each of the five events. Points will be added or subtracted (Continued on page three)

Athletes to Banquet Next Thursday Night

George Halas, owner and coach of the Chicago Bears, and Pat Flanagan, famed radio announcer, will speak at the banquet of the Armour Tech Student Association, which will be held Thursday at 7:00 p. m. at the Union League Club, located at 65 W. Jackson Boulevard. The toastmaster will be John J. Schommer, athletic director.

At the banquet Honor A keys will be presented to the ten pledges: J. Dunne, P. F. Henriksen, W. E. Kruse, L. Loguillo, P. L. Moore, J. F. O'Connell, H. S. Ruekberg, J. E. Shanahan, N. F. Simeon, and C. H. Skuza.

Halas is a former star at the University in basketball, football, and baseball. He was one of the early organizers and players of professional football.

Dr. A. O. Walker Appointed to Research Foundation

Increasing their steadily growing personnel, the Research Foundation has recently added Dr. Alfred O. Walker to its staff. Dr. Walker attained his Ph.D. degree in chemistry at the University of Chicago, where he has worked for the past two years as a post-doctoral fellow.

Dr. Walker will perform chemical analysis of various types in the already completed research laboratories. A private chemical laboratory will be provided for him in the near future.

Successful Year Ends for Armour Research Group

Completing its first year as an organized body, the Research Foundation has attempted to accomplish its aim to promote and develop an efficient corporation in order to increase the scope of work done by research projects carried on by individual workers.

The foundation was formally established in April, 1936, although it did not start functioning until September, 1936, when Dr. Thomas C. Poulter, senior scientist and second in command of the second Byrd expedition, took office as executive director. A recent survey of the various departments of the Foundation illustrates the developments which have been made.

Directed by Dr. R. D. Snow, the coal research project involves a detail study of the preparation and use of Illinois and Indiana bituminous coal. Assisting Dr. Snow is a staff of five to ten graduate and under-graduate students. The coal laboratories are located in the Research Building at 33-37 West 33rd Street. Also located in this building are the spectroscopic, high-pressure, X-ray, and filtration laboratories.

An investigation of the intensity and character of radiation from mantel type lamps and lanterns using gasoline and kerosene has been completed recently in the spectroscopic laboratory by Prof. W. W. Colvert. The instrument used was a specially designed quartz spectro-scope which enables one to study ultra violet and visible radiations. (Continued on page four)

Armour Tech Greet Visitors with Record Open House Display

All Departments Present Exhibits Illustrating Fundamental Principles Used in Engineering

STUDENT GUIDES TO ASSIST GUESTS

Spring Concert and Fraternity Sing Set for Wednesday Night

Next Wednesday evening at 8:15 sharp, director Gordon Erickson will lift his baton in readiness for the opening of the 32nd annual Spring Concert to be given by the Armour Tech Musical Clubs. The evident enthusiasm, which is building up among the student body and members of the faculty alike, offers great assurance that Armour Mission will delight in the presence of a capacity audience for this event.

Eight Fraternities to Sing

Following precedence, eight Armour social fraternities will vie for singing honors by exercising their vocal chords during the interfraternity Sing Program. This portion of the evening's event will be during the intermission of the Spring Contest. Judges for the occasion will be: Professor Emeritus C. W. Leigh, founder of Armour Tech Musical Clubs, Professor O. A. Hougen, Professor J. B. Finnegan, and Mr. J. G. Potter. Prof. Finnegan will present the circulating loving cup to the winning fraternity.

Pi Kappa Phi has taken the lead in this annual contest for the last two years and has high hopes of winning again this year. Phi Kappa Sigma, on the other hand, has a different idea as to the outcome. Its men have been practicing steadily on new and old songs for many weeks. Delta Tau Delta, Theta Xi, Phi Pi Phi, and Sigma Alpha Mu can all be considered hot contenders because their nightly rehearsals in preparation for the event give rise to high hopes and good performances.

Glee Club Featured

Those selections rendered by the Glee Club next Wednesday that deserve your particular attention are the following: "Cossack Love Song", a rapid Russian ballad which has the speed and delight of a smoothly running diesel engine; "On the Road to Mandalay", sung by Thomas Yeakle, Jr., baritone soloist, with choral accompaniment; "Animals", a rollicking negro spiritual, all about Noah, his (Continued on page three)

Presenting an elaborate display of modern technical exhibits, the thirty-second annual Open House welcomes its visitors tonight and cordially invites them to visit the departments of the Institute. All students performing in any of the displays will be glad to supply any information or answer any questions which visitors may ask. The mechanical engineering department's exhibits will be divided into six divisions: automotive lab, foundry, machine shop, mechanical engineering lab, refrigeration lab, and welding shop. Detonation, distribution, and vapor pressure tests along with extensive diesel and aero engine displays will be shown in the automotive laboratory. The foundry shop will give an exhibition of mold making, core making, sand testing, pouring of brass, iron and aluminum castings, and products formed in the foundry.

Show Machining and Cutting

Featured in the machine shop will be the boring of huge air-compressors, machining of automobile crankshafts, cutting of large bevel and spur gears, machine operations accomplished by surface and universal grinders, shapers, planers, and lathes.

The mechanical engineering laboratory will display the methods used in conducting tests of blowers, air conditioning cooling coils, high pressure water wheels, water flow measuring devices, steam engines, compound air compressors, compression, tension, and tension tests of various types of wood and metal. Operation of an ice-making plant and the compression tests of large specimens on a huge Olson testing machine will be part of the exhibit presented by the refrigeration laboratory.

Modern Chemical Practice

Also included on their program is a display presented through the courtesy of the Whiting Corporation. Various methods of different types of weldings and the preparation of metallographic specimens for microscopic study of crystalline structure will be shown in the welding shop exhibits.

Modern chemical applications and phenomena will be shown in the chemical engineering display. Problems (Continued on page four)

Dr. L. E. Grinter Appointed to Head the Civil Engineering Department

Dr. Linton E. Grinter, professor of structural engineering at Agricultural and Mechanical College of Texas, has been appointed director of the civil engineering department and dean of the graduate division at Armour beginning with the next school year. Although Dr. Grinter is only 35 years old he is one of the outstanding teachers of civil engineering in the country.

Has Published Many Papers

Many papers by Dr. Grinter have appeared in the Transactions and Proceedings of the American Society of Civil Engineers, the Engineering News Record, and the Journal of Engineering Education. He is the author of a recently published two volume text on modern steel structures.

His Bachelor's degree was received from the University of Kansas in 1923, and his Master's degree in structural engineering the following year from the University of Illinois.

His Doctor's degree in Engineering was obtained in 1926 at the same school.

After receiving his Doctor's degree Dr. Grinter obtained a position as designing engineer in charge of structural, hydraulic, and mechanical design for the Standard Oil Co. of Indiana. His next position was his present one with the Texas A. and M. obtained in 1928. Approximately half his time there is spent in graduate teaching and direction of graduate research.

Member of Tau Beta Pi

Dr. Grinter takes an active interest in the affairs of the Society for Promotion of Engineering Education and of the American Society of Civil Engineers, attending not only the local meetings but the national meetings of these societies annually. He is a member of Sigma Xi and of Tau Beta Pi.

Dr. Benjamin B. Freud of the chemical engineering department has been appointed dean of the evening division beginning next semester. He is at present chairman of the committee on graduate study, which will be replaced by Dr. Grinter as dean of the graduate division.



WELCOME TO OPEN HOUSE 1937

It is a happy privilege to welcome the families, teachers, and friends of our students, and those who may become students to our Annual Open House, and to welcome back students of other days.

On this occasion, we try to give our visitors as broad a view, as limits of time and space permit, of what it means to be a student at Armour. But it means something more than the courses and the activities in which the student participates; Armour has a vital part in the educational, industrial, and civic advance of our community and our nation. We are trying constantly to increase its usefulness and widen its influence, and we want all of these who participate in this Open House of 1937 to gain from it inspiration and increased faith in the future of America.

WILLARD E. HOTCHKISS, President

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Class of '38

On September 24, 1934, 212 hopefuls entered Armour Tech and assumed the title "class of '38." Class politics received its inauguration when the freshman class elected its officers—C. W. Dunbar, president; H. J. Bodnar, vice-president; C. H. Preismeyer, secretary; J. C. Lindahl, treasurer; S. E. Healy, social chairman.

Intramural athletics came next when after dropping a baseball game, the class of '38 won the coveted interclass baseball championship. In track they showed added strength by taking the interclass meet.

Leading into social life, on Washington's birthday the freshmen and sophomores presented the

"Engineers Hop." Junior Week saw them lose a tough softball championship and the rush.

Raised to sophistication in their sophomore year, the class of '38 elected its officers. H. J. Bodnar was president. At the giving end in the green cap battle, they showed their mettle. They successfully defended the championships in basketball and track won in their freshmen year. On March 13, they held the "Sophomore Cotillion" at the Lake Shore Athletic Club. In Junior Week, they came through to overwhelm the frosh in the rush.

With Bill Chelgren president, the past school year has seen them return the basketball championship to competition and come through in glorious style to win the interclass baseball and track events. Their Junior Formal at the Drake Hotel initiated the school to something different. Keep it up '38.

An Incomplete View

Marvels of science and engineering are presented for Armour's visitors each year as the school holds open house. Many students sacrifice a large amount of their time and energy to make the event possible—time that is scarce at the end of the semester, especially for the type of student who gives his loyal support to presenting the work at Armour to its friends. He is always active in school affairs.

Open House exhibits must necessarily be tangible, and for this reason a full picture of work at Armour can not be given. A large proportion of the student's daily school life involves school spirit and participation in the extra-curricular affairs, which can scarcely be put into a glass case and shown to visitors.

As much a part of a technical college as engineering training is learning how to live in a better way. Living and cooperating with our fellows in affairs of common interest gives us as much real value as the more practical engineering training.

All this is not intended to belittle the work of the students; they are to be congratulated on the exceptional exhibits, but we can still wish we could show our guests even more about our school as it actually is.

The Slipstick

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

Welcome, friends of Armour, to the humor column! We thought it best to let you know—there should be no secrets between us. Our boast is that we possess the finest collection of slightly mildewed jokes ever gloated over by any college columnist. So, besides evoking a laugh on one, we may be able to stir up some fond memories. Allez oop!

Lights . . . laboratories . . . people
... many people . . . Mother . . . Dad
... test-tubes shining, foaming . . .
... sparks crackling . . . sister . . .
... brother . . . professors . . .
dancing . . . music . . . Peggy . . .
people . . . Radio . . . motors . . . plans
... talking . . . Words . . . drivers
... oscillators . . . Students working
... working . . . warm!!!!
It's Open House Nite Tonight!

"Did you know that Berger is employed as an auctioneer during the summertime? He drives an awful bargain!"

And Mamie agrees.
"And how! I was riding in it last night."

They tell us that the gold digger's ambition is always to look neat, and trim.

"I heard you gave a big dinner at your house Saturday."
"Yes, I served soup to nuts."
"Oh, you had Zazu and Morphine over?"

"So this is the Woman's Club Theatre where you made your first appearance as an actor, eh Nick?"
"Yup, eggs mark the spot."

The way some women get rid of their husbands is simply killing."

Prof. (at entrance exam): "How much does a twelve-pound mackerel weigh?"

Precocious Frosh: "Don't know, sir."

Prof.: "Well, then, what time does the ten o'clock train leave?"

Same Frosh: "Ten o'clock."

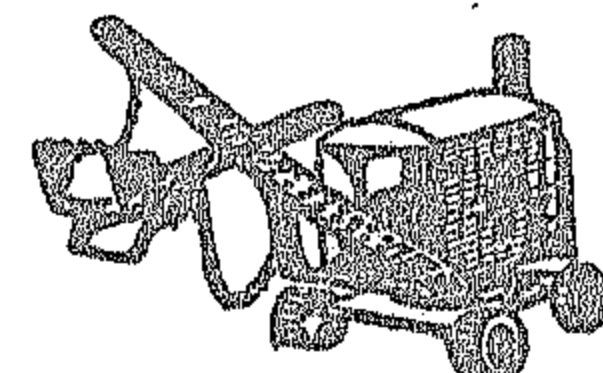
Prof.: "Then how much does a twelve pound mackerel weigh?"

Frosh: "Oh, now I know. Ten pounds, sir."

DAWN IN A DORMITORY

7:00 A. M. in Spring
"Y' up?"
"Yup!"

The Steam Shovel



Absent-minded professor gags, like those about mother-in-laws, have their foundations firmly fastened in the pure white marble of truth—slightly reinforced, of course. While rushing up to the board to clean up a point during Velvel's lecture, Prof. B. E. Freud ran smack-dab into a five-foot ring-stand and apologized to it! He thought it was Velvel!

"Bill" Laise, newly initiated member of Sphinx, can't even spell the word. In writing out a receipt for the Cycle, he laboriously spelled it—Sphinx. Honorary Literary . . . tsk, tsk!

LOUIS "Two-Shakes" LOGUL-LO, on a compulsory hunger-strike since Pete Welvel's party last Saturday, swears he'll never pick up those dark-eyed cubes again. "Two shakes, and it cost me forty cents!" moans Louis. "No lunch until I make up the deficit."

The reason the bare-legged fad irks the hosiery manufacturers is simply the fact they're not living off the fad of the land.

"Can't you see that sign, 'No Smoking'?"

"Sure, it's plain enough, but there are so many other dippy signs here. One says, 'Wear Vise-On Corsets!' So I ain't paying any attention to any of them!"

"Say, Zazu, can I touch you for a dollar?"

"What do you think I am? I have to earn my money by my wits."

"Well, let's have a half a buck then."

Newlywed: I married a girl with a twin sister.

Bachelor: How do you tell them apart?

Newlywed: I don't bother; the other one has to watch out for herself.

With sadness in our hearts
We buried Sammy O'Day.
He tried to live the life of Reilly
While Reilly was away.

So until the next time we meet
again, G'bye, Eejay.

Around Washington

By Marvin Cox
A.C.P. Correspondent

Washington, D. C.—A National Academy of Public affairs to train young men and women for diplomatic and administrative service in the government as West Point and Annapolis trains officers for the army and navy is proposed in a bill introduced by Representative Disney of Oklahoma. * * *

The advantages of college training again were proved in the capital this week. Two students at Cornell University, Russell Brazill and Gerald Masters, hitch hiked into Washington Sunday night broke and hungry. They were en route back to Ithaca from North Carolina, where they had spent their spring vacation. No money and no food! This was a dismal prospect, but due to their college training they surmounted the obstacle.

Brazill and Masters walked down to the neighborhood of George Washington University. They spotted a neat residence and presented themselves at the door. They were college freshmen being put through a fraternity initiation, they told the housewife, and they had been instructed to obtain from her a couple of ham sandwiches and an apple or two. If they failed on their mission, the boys said, they would be soundly paddled when they returned to the chapter house.

The boys repeated the procedure with several housewives and left Washington a couple of hours later well fed and carrying sufficient food to last them for several meals.

Four out of five, say the ads, have pyorrhea; and the same proportion of Cabinet members have college educations.

Postmaster General Farley and Secretary of War Woodring are the only members of the President's official family who failed to receive a college education.

Here's where the various members received their college training:
Secretary of State Hull, Cumberland College, in Tennessee.
Treasury Secretary Morgenthau, Cornell.

Secretary Swanson of the navy, V. P. I. and the University of Virginia.

Attorney General Cummings, Yale.
Secretary Ickes of the Interior, Chicago.

Secretary Wallace, Iowa State.
Commerce Secretary Roper, Trinity College (now Duke) and National University.

Fraternity Notes

Once again Junior Week is with us and the Greekmen are ready for action. Tuesday night the annual fraternity open house is the headlining feature. All houses are holding dances and an open invitation is extended to the entire student body to bring their dates and have a gala evening.

Wednesday is the "double header" with both the track meet and the sing on the schedule, and on Friday the annual Circus Day skits will help to ring down the curtain on a glorious week.

Theta Xi Elects

Theta Xi announces the election of the following officers: G. M. Ives, president; R. N. Ansel, vice-president; R. W. Young, treasurer; A. C. Giovan, corresponding secretary; J. F. G. Sodaro, house chairman; and G. M. Amory, assistant house chairman.

New Sigma Alpha Mu initiates are M. V. Kahn, Ch.E., '40; R. S. Kohn, M.E. '40; J. P. Krumborn, Ch.E. '38; and A. Levenberg, Ch.E. '39.

Rho Deltis announce the pledging of two new men. They are Sam Spencer, Ch.E., '39, and Judie Zablen, Co-op '42.

Many Social Events Planned

Social events are crowding the calendar for the rest of the year. The Delt's Mother's Club meeting on May 2 was the most successful of the year; a musical program and refreshments concluded the business meeting. Last Thursday night, the Delt's put on the Annual Founders' Day Alumni party. The Phi Pi Mother's Club met at the house last Friday.

The Phi Kapp annual senior fare-

well formal will be held at the Drake Silver Forest on May 21. Sigma Alpha Mu has completed arrangements for the yacht party on the "Columbia" next week; Joe Mashman, the sailor man, is in charge of the arrangements for the affair.

The annual T X picnic will be held at the Indiana Dunes on May 30 or June 7. Art Dreis, Theta Xi social chairman, has also completed plans for their splash party at the Lawson "Y" during the week of May 23.

Baseball Tourney Underway

After sinking Triangle 9 to 1 in their first baseball game and Theta Xi 19-0 in their second, the Rho Deltis have high hopes for the championship. Stellar hurling by Sam Taradash was the feature of the encounter. The Phi Pi's lost a heartbreaker to the Deltis last Thursday. At present all houses are limbering up tennis racquets and golf clubs in preparation for the fraternity tournaments.

"The Armour Rathskellar" is the title of Triangle's Circus Day stunt; it sounds great. George Ives is directing the TX songsters, and Joe Sodaro has charge of the stunt. Two new trophies have been added on the Phi Pi Mantel—bowling and basketball are the latest.

Sigma Alpha Mu sent Al Schrieber and Irv Schlifke on a visit to their chapter at the University of Michigan last week.

Did You Know?

Bob Levy has the Rho Delt pledges working hard on a house cleaning program in preparation for their open house. All other houses are doing likewise.

Pi Kapp Burman may be in cold storage before the week is over, if the frosh have anything to say about it.

Some of the Triangle brothers have presented a queer odor since the inspection trip to the Armour Fertilizer Works. The alcohol room in the research laboratories was another great attraction. Johnny Penn gets a great deal out of the dinners on tennis team trips. (Perhaps the word is meal, instead).

ART GUM.

JUDGE ROBBINS
ESKIMO PIPE

SAY, JUDGE THIS WALRUS-TUSK PIPE IS HARD AS ROCK. THOSE ESKIMOS MUST LIKE TOUGH CARVING

NOT NECESSARILY, SON. THEY USED WALRUS-TUSK BECAUSE IT MAKES A COOL-SMOKING PIPE

THEN I CERTAINLY WISH THIS PIPE OF MINE WERE MADE OF WALRUS-TUSK!

SOMETHING TELLS ME YOU'VE NEVER SMOKED PRINCE ALBERT IN THAT BRIAR, SON. HERE

PRINCE ALBERT IS SPECIALLY TREATED FOR COOL SMOKING. THANKS TO THE 'CRIMP CUT,' IT PACKS AND DRAWS RIGHT—BURNS EVENLY AND SLOWLY

AND THE 'NO-BITE' PROCESS REMOVES ALL THE HARSHNESS. NATURALLY YOU GET A MILD, SAVORY SMOKE

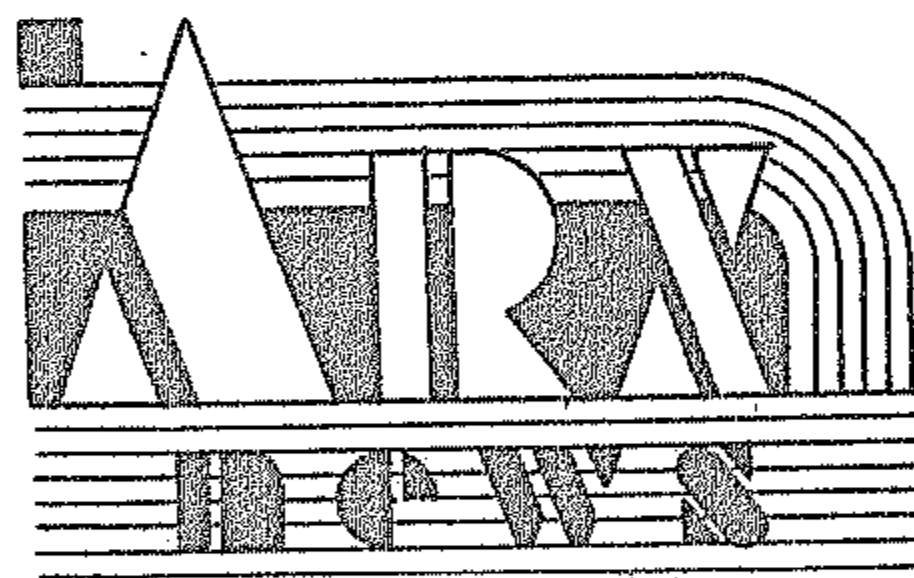
JUDGE, PRINCE ALBERT IS ALL YOU SAY—AND THEN SOME!

OUR OFFER

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.

50 pipefuls of fragrant tobacco in every 2-oz. tin of Prince Albert

PRINCE ALBERT THE NATIONAL JOY SMOKE



May Day came on the fourth instead of the first for the architects because that was the day that the little red marks were put on their plates. Since there were many judgments this week the award notices will be squeezed in somehow, leaving space, I hope, for some interesting sidelights.

Goers, Iwasa, Kliphardt and Jake received First Mentions on their Cinema Lobby designs. Wagner got a First Mention in Freehand, and when the letter from the Beaux Arts came on Thursday, Moseley had a Half-Mention on his Esquisse-Esquisse and Skubic a Mention. Since the school has received more awards this last year than it has for many years, the fellows are all feeling very high.

After the last Class B plates were turned in the fellows in the Soph drafting room went on a small turn out in the Dunes. They all returned safe and sound excepting OSTERMAN, who came back slightly damp from an excursion into the water with his clothes on. Over in the Junior room CUNNINGHAM and LITWIN celebrated by having a Japanese dinner of sushiyaki. Several hours later Cunningham wished that he had ordered a hamburger. He was on the eighth floor at the time. Figure the rest out for yourself, because if I wrote it, it would be censored.

Iwasa of Waikiki is holding a house party for his fellow-members in the Junior class, that is, if they all can fit into his one-room apartment. It has been rumored around that Iwasa would like to try sailing an outrigger canoe on Lake Michigan. It certainly would be an interesting thing to try.

Last minute flashes: Cerovski won



A. M. Zarem

WITH POLITICS DAILY tightening its grip upon the political life of a disinterested citizenry, we will sooner or later find ourselves faced with the question: How long is this to continue? There are many significant acts of civic interest with which everyone, particularly engineering students, should be concerned. Probably the most dangerous and consequently harmful attitude which any group can assume toward its city government is that of quiescent disinterest in public policy. The whole theory of the democratic form of government under which we live is based upon the fact that the people who are subjected to it may have something to say about how they are to be governed. Forgetting or discarding this major point is the one thing which must never happen—and yet it seems that it has happened in the past, and there is good indication that it will continue to do so.

TIME AND AGAIN Chicago's active citizens have tried their best to overthrow "boss rule"—yet their greatest problem has been to get and keep the voters interested in what they were trying to do. Repeated violation of the law by politicians plus the abuse of powers entrusted to our city officials have become commonplace to the extent where people actually believe that they are the attendant evils of a growing metropolis. Such is by no means the case.

A TYPICAL EXAMPLE of a civic problem which should affect all of us is afforded by the city manager plan bill which was rejected by the Illinois House in a hectic session on April 13. The vote was 72-67. Although the bill was not intended for Chicago itself but for all cities in Illinois, still it was emasculated by that private group known as the "Chicago gang." As explained in a previous article, the enacting of this measure would not force any city to adopt the city manager plan of government. Instead the people of any community would be given the right to determine the form of government they preferred. It is reasonably certain that had the bill been passed the people of Chicago would have reacted favorably in the referendum which would naturally follow. This would mean eventually smashing the democratic machine in Chicago. In view of these facts we can only speculate as to why 72 of the people's representatives voted against the measure.

INTEREST IN the city manager plan has been growing steadily. With various civic groups taking up the cry, it seems the fight for a city manager in Chicago has just begun. It is probably significant that the bill was defeated by only a small majority. In connection with the vote on the bill it might be mentioned that one representative stated: "I am against this bill. It aims to do away with representative government and tries to concentrate all local powers within the hands of a few individuals." In answer to the accusation one may quote Mr. C. A. Dykstra, who until recently was the city manager of Cincinnati, once said all there is to say, in one sentence. "The purpose of this form of government is to serve no private or party interests and to have no fear."

NEARLY 10,000,000 PEOPLE in 467 cities in the United States are governed by a city manager. To say that the city manager plan is simple, easily understood, eliminates responsibility, and centralizes responsibility is merely saying just so many words. But—when one is confronted with some of the improvements and benefits which various cities have received because of it—then one becomes convinced.

ALTHOUGH MUCH is said about the city manager plan, very few people know its fundamentals. The main features of this form of government is a council—usually of nine members—who are elected on a non-

Oldenburger to Leave for Year

Mathematician Will Join Research Group

Dr. Rufus Oldenburger of the mathematics department has been awarded a research grant by the Institute for Advanced Study at Princeton University for the purpose of carrying on investigations in the theory of functions at that Institute during the next academic year. He will be on leave from Armour for that period.

The Institute for Advanced Study is the highest educational institution in the world. It was founded about four years ago in line with the ideals outlined in Dr. Simon Flexner's book on American universities. There are no classes, grades, or degrees. All people associated with the Institute have doctor's degrees. The six permanent professors lecture only four or five times a week on the average. The other professors each lecture a few times a year on researches.

Plan to Increase Scope

At the present time the Institute has only one department, mathematics, but it plans to branch out into other fields. There are six professors, each chosen because he is probably the best in his field. They are Albert Einstein, mathematical physicist; Marston Morse, analyst; Oswald Veblen, geometer; Hermann Weyl, algebraist; J. W. Alexander, topologist, and John von Neumann, at the present time geometer. Of these John von Neumann is the youngest, being only 34 years old. He is considered by mathematicians to be probably the most brilliant young mathematician in the world.

Work on Critical Point Theory

Oldenburger and Morse will collaborate in work on algebraic problems which arise in critical point theory. This theory is concerned with the study of functions at points at which all first partial derivatives of the function vanish. It is hoped that the theory will yield the solution of the problem of finding a mathematical orbit which fits that of the moon. Dean Birkhoff of Harvard, leading authority in the world on dynamical systems, obtained a solution of the problem, but it was found that the moon traveled in a direction opposite to that predicted. Dr. Oldenburger will also collaborate with Professor Morse in publishing a memoir on recent results in critical point theory.

Opens New Mathematical Field

Dr. Oldenburger is noted for opening a new field of mathematics by developing an original approach in the theory of functions of several variables (called higher dimensional matrices). He is the first mathematician to find non-trivial applications of higher dimensional determinants. By means of this approach important properties of polynomials have been proved that could not have been proved otherwise. His publications include several papers which have appeared in the "Annals of Mathematics," the "Bulletin of the American Mathematical Society," the "American Journal of Mathematics," the "Duke Mathematical Journal," and the "American Mathematical Monthly." These journals are the competitive journals in America devoted to mathematical papers: competitive in the sense that papers are accepted for publication only if approved by "referees" who are prominent mathematicians whose identity is kept secret from the contributors. A paper by Dr. Oldenburger has appeared in the "Tohoku Mathematical Journal," published in Japan.

partisan ballot. The council elects a mayor from one of its own members. The mayor acts as a more or less "ceremonial figure." The city manager is also selected by the council. He appoints departmental heads (subject of course to civil service requirements) and supervises activities in general—just as any executive would.

THIS THEN is the system, and under it tremendous savings have been made. Avoidance of overlapping bureaus, centralization of activities, and unification of the accounting system are some of its advantages. But we here in Chicago cannot have them—just yet. We must be content with our politicians of whom it has proudly been said: "They are the best money can buy."

Dr. Glenn Frank Will Speak at Alumni Banquet May 25

Dr. Glenn Frank, former president of the University of Wisconsin, will be the speaker of the evening at the Alumni Banquet, which is to be held at the Medinah Athletic Club, Tuesday evening, May 25, at 6:30 o'clock. Mr. James Cunningham, president of the board of trustees, Dean H. T. Heald, and Dr. W. E. Hotchkiss, president of Armour, will also speak.

A crowd of over 400 alumni, faculty, and trustees is anticipated for the affair. The music will be furnished by the Armour Glee Club and orchestra, one hundred strong.

Seasonal Idea Put into Cycle's Pages

This year's *Cycle* will see a marked change in organization of the embodied material. In contrast to previous editions, the matter will not be grouped as "Seniors, Faculty, Fraternities," but will group these various activities according to seasons.

The fall season section will contain information about those events and persons which were most prominent during that season. The freshmen, being new to the school, will of course rate mention in this section. As all hands are turned to studies during this period, the faculty is also included.

Honoraries in Winter Section

Winter sports and activities will be in the winter section. Further, honorary fraternities are active in this season and will be placed in this section of the *Cycle*.

As spring is famed for Junior Week, the juniors are to be included under spring activities. Graduation activities, also occurring in the spring, entitle the seniors to a place in this portion of the year book. In this manner all other activities will be grouped in the new cycle.

Use Superimposed Photographs

The pages dividing the various sections will consist of photomelange. These are pages in which various photographs are superimposed, one above the other so as to produce a photographic effect of that season.

Colors are also to be used on the cover of this year's *Cycle*. A small circle divided into sectors with a pair of dividers emanating from them will be the distinguishing mark on the cover. This design will be reproduced in an enlarged form on the title page and in a reduced form in the lower right hand corner of every other page. Four-color printing is to be used throughout, and, according to P. M. Martin, editor, this year's edition will be easily comparable to that of other years.

Junior Week—

(Continued from page one)

according to the contestant's ability to perform better or worse than a definite fixed standard.

Alumni Banquet Thursday

Thursday's events will be concluded with an alumni banquet conducted by the Armour Tech Student Association at the Union League Club.

Friday will be Circus Day and will feature a continuous round of activities. The greased-pole event open only to juniors and seniors will no doubt prove popular. The contestants will attempt to scale the greased pinnacle atop which will be placed bids to the Junior Informal. Following this will be the strong-man and pie-eating contests, open only to juniors and seniors. Representatives from each of the departments will compete in these two events.

The most anticipated event insofar as the lower classmen are concerned is the freshman-sophomore rush taking place at 3:30 on the athletic field. In this competition the freshmen and sophomores line up on opposite sides of the field with sand and straw bags placed in the middle. At the sound of the whistle the two sides rush to the center and attempt to return with the bags. Encouraged by newly organized strength the lower freshmen will attempt to avenge the humiliations of the past semester.

Junior Week will be climaxed with the Junior Spring Informal to be held at 9:30 at the Medinah Country Club.

The students are urged to cooperate in the administration of Junior Week by observing the definite schedule of classes and events that has been released by the office.

Musical Clubs—

(Continued from page one)

Ark, and his animals; "Liebestraum", featuring Adolph Rune and his violin, and George Danforth at the piano.

The Orchestra has spent much time and energy in preparation for this concert. In honor of Coronation Day, its specialty for the evening will be the rendition of three movements from "London Suite" by Eric Coats. This is a new publication that has gained sudden popularity on the two continents. The Glee Club, not to be outdone in the plans for Coronation Day, will sing "Land of Hope and Glory," a mighty number written by Sir Edgar Elgar and played for the first time when King Edward VII of England was crowned. This selection will be sung and played a great deal during the next few days by musical organizations all over the world.

A quartet composed of the senior violinists of the orchestra will be a feature of the Spring Concert program by playing Mendelssohn's heart-rending "On Wings of Song".

Chicago's Jubilee to Be Theme of Coming 'Engineer' Publication

The next issue of the *Armour Engineer* will be distributed about May 20. A special effort is being made to produce a notable issue, because it is to be published in conjunction with the commemoration of the centennial jubilee of Chicago's charter. The entire issue will have the development of Chicago as its motif.

Photographs of the first mayor, Mayor Ogden, and the present mayor, Mayor Kelly, will open the issue. A large number of articles by the foremost authorities will show the various aspects of Chicago's development.

To Review Chicago's History

Mr. Shattuck, director of the Chicago Historical Society, will give a short resume of Chicago's history. The publicity director of the Chicago Association of Commerce, Mr. Ashley, will write on Chicago as an industrial center. Mr. Kunis, a member of the same group, has commerce as his subject. Transportation will be taken up by Mr. Rutter of the Chicago Journal of Commerce, and finance will be the subject of Mr. Harvey Hill, vice-president of the Chicago Board of Trade.

Discuss Art and Architecture

Besides the commercial development, the development of art will be treated very fully. Mr. Brown, Director of Recreation of the South Park Board, will write on recreation. A competent authority, Daniel Catton Rick, Associate Curator of Painting at the Art Institute of Chicago, will write on art and architecture. "The Seven Wonders of Chicago" will be the interesting topic of Miss Fitzgerald, a feature editor of the Chicago Tribune. Eugene Stinson, music critic of the Chicago Daily News, will write on music, and education will be the topic of the Education Editor of the Chicago Daily News, John Lally. Finally a brief history of Armour Institute of Technology will be given by the head of the English department, Prof. Walter Hendricks.

The edition will be profusely illustrated, containing over one hundred photographs of Armour and surrounding Chicago. Due to the large number of articles, the magazine will be large, being over eighty pages in length. Since it is being sent to the alumni, and all students receive a copy, the publication is large, over 22,000 copies being necessary to fulfill these requirements.

Soph Class to Give Smoker Gratis During the Summer

Plans are under way for a unique sophomore smoker, to take place in the latter part of July. All men of the class of '39 will be invited and it is expected that many men who started with the present sophomore class and have been forced to drop out of school will attend the smoker.

The sophomore co-op students also are invited. This will mark the first real attempt by full-time students to unite with the co-op students and with men who have left school.

Junior Chemical's Inspection Trip Leaves Lasting Scents Impression

It comes in here, the cow goes round—smash—crash—crunch—crack—smash—crash—plunk, and the hash comes out!

"I, Jaroslav Danek, do hereby solemnly swear to conscientiously fulfill my oath never to look another steak in the eye as long as I live—or I hope to buy my slide-rule arm!" "Amen, Hallelujah!" chorused a bleary-eyed group of junior chemists in reverent tones as they reached the gate of Armour and Company and Scents, Inc.

Plant Shows Strength

This inspection trip through Chicago's "Hell Hole of the South" was Prof. Hougen's answer to the demands for an educational visit to some strongly active plant. In short, it was an inspection trip to end all inspection trips. The group was taken through the laboratories, and other places of interest, odor, and color by a group of amused scientists under the leadership of Dr. Fisher.

The group first received a lesson in mashing under the able tutelage of a 60-cow power mechanical masher which smashed up cows into confetti with a single wallop of its cast-iron mitt. Here they learned that hamburgers are made—not accumulated.

Fallen Are Revived

Next, the group entered the pharmaceutical department where they thrilled at the gory sight of huge vats filled with fresh blood. This blood is used for serums, albumen dressings and for nauseating visitors. It was definitely a red-letter day for the juniors.

Stopping only to pick up a few fallen chemicals here and there—the plant was characterized by a persistently and rather offensive odor—

the group continued their trek through miles of hot air tunnel driers, vacuum driers, jaw-bones, hoovers, and doo-dads until they reached a building in which pills were being bottled by young ladies immaculately dressed in white. The group stayed here for quite some time. John Masin developed a sudden sickness and suggested that perhaps "some of those pills . . ." After dragging him out, the group left for home. At the door each of the schmiars was presented with a souvenir two-pound box of Armour's fertilizer. Perhaps you may see some being converted into "Zephyr du Hestphy" perfume at the organic chemistry exhibit tonight. Science is a wonderful thing . . .

Honoraries Celebrate at Dance Last Week

Members of the ten honoraries, the faculty, and their friends made up the 120 couples who danced to the melodious music of Pierson Thal and his orchestra at the Interhonorary Dance last Friday night. Novel entertainment, supplied by the honorary pledges, provided a pleasant interlude.

The programs introduced a distinctive note. They were made of celluloid with the symbols of the ten honoraries pressed on the front cover. M. H. Beckman, assisted by P. R. Schultz and W. A. Chapin, maneuvered this social event to its successful conclusion. The fraternities represented were: Tau Beta Pi, Tau Sigma, Chi Epsilon, Eta Kappa Nu, Lambda, Upsilon, Pi Nu Epsilon, and Honor A.

Western Electric TELEPHONE APPARATUS

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Western Electric HEARING AIDS

Western Electric AVIATION RADIO TELEPHONE

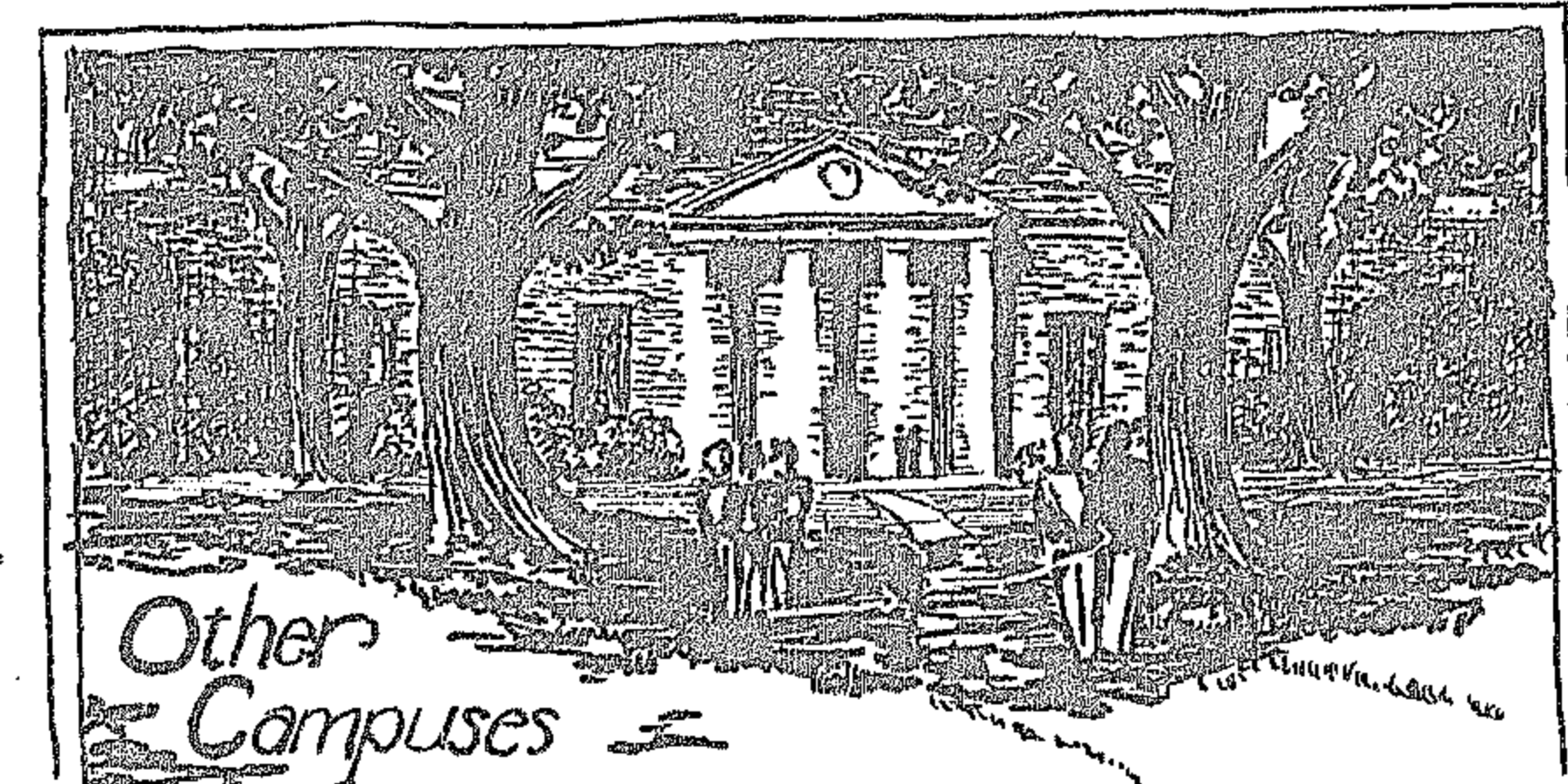
Western Electric HEARING AIDS

It's all around you

In this busy age, things made by Western Electric appear on all sides. For in addition to its primary function as manufacturer, purchaser and distributor for the Bell Telephone System, Western Electric produces apparatus to meet almost every sound-transmission need. That is why Western Electric is called "the leader in sound-transmission."

Manufacturing Plants at Chicago, Ill., Kearny, N. J., and Baltimore, Md.





An "Anti-Corsage League" formed at the University of the South at Annapolis claims a membership of 75 per cent of the student body. The organization's men will not dance with women who wear corsages.

Weather affects one's mind, says Prof. William F. Petersen of the University of Illinois. The number of patients who enter Illinois hospitals for treatment of mental illnesses rises to a peak in June, drops to a low in September, rises again in October and declines in November.

A hobo with a "good line of talk" can make between \$3 and \$10 a day, declares Dr. William Bailey, economist and former Yale University professor, who conducted a boarding house for knights of the road in order to study them.

Usually write-ups of student plays are studded with praise, but this one from the Daily O'Collegian, Oklahoma A. & M., Stillwater, Oklahoma jumps out of the groove: "Other than a few hard falls, a few costume tears, some loud backstage curses, and a few mixups in lighting effects, and a few minor changes in the program, dress rehearsal went off last night about as smooth as a washboard."

The day of the 15 foot pole vault is not far off, thinks Coach Brutus Hamilton of the University of California. There are at least four athletes capable of skidding over the bamboo at that height: Bill Sefton, George Varoff, Sueo Oye of Japan and Earle Meadows.

Sixty ballplayers of the American Association have attended colleges or universities at one time or other. Thirty of these received degrees.

A facetious philosopher at Michigan State College claims that "Life is one damfool thing after another and love is two damfool things after each other."

Collecting and pickling spiders is the hobby of Mrs. Harriet Exline Lloyd, a doctor of philosophy at the University of Washington. She has 10,000 in all and 400 different species.

Behemoths who attended the Crew Weight Dance at Sacramento Junior College had something to beef about. They were charged an admission fee of 1/2 cent a pound. To prevent embarrassment, coeds were admitted free.

Cambridge, Mass.—(ACP)—Lungs with efficiency greater than those of any man ever tested belong to Don Lash, Indiana University's sensational two-mile runner. This claim was made by Dr. D. B. Dill of the Harvard University fatigue laboratory at the annual meeting of the American Association of Physical Anthropologists.

In tests, Dr. Dill found that, while running, the Indiana star has an oxygen intake 50 per cent greater than the average man and nearly that much more than four other outstanding American milers—Cunningham, Venzke, San Romani and Fenske. While running at his two-mile pace, Lash is capable of taking in three liters of oxygen a minute.

London, England—(ACP)—Mind over matter is the theme of a lecture in verse form written by Prof. E. P. Cathcart of the physiology department at the University of Glasgow.

"Eat all kind nature doth bestow: It will amalgamate below. If the mind says so, it shall be so. But, if once you doubt, The gastric juice will find it out."

Don't call freshmen "dumb!" Take the one at the Pasadena School of the Theater for example. He wanted to get out of taking military science, but there was no way out—apparently. So he ate nothing but acid foods for two weeks. His face became as flushed as the tomato juice he drank. A hot bath ripened him to a brilliant catsup color and a chest rubdown sanded flakes of skin off; then he reported to the school physician.

"The Doc," he laughed, "took one look and said: 'Don't argue with me,

young man. You just can't take military anymore!"

A salary for conducting a sit-down strike is something that Jane Pickens, Ann Caldwell and Pauline Noland, coeds at Wesley Jr. College, Greenville, Texas, didn't expect. Tired of seeing the typical leg-flying of modern musical pictures, the girls walked into the lobby of Greenville's best theatre, sat down and declared they wouldn't move until they were permitted to see Deanna Durbin, the 14-year-old songbird. Snapping up the chance to get lively publicity, the manager got the coeds comfortable chairs and set up signs explaining that the girls were sitting there until they saw a Deanna Durbin picture, put them on the payroll and moved up the playing date for "Three Smart Girls" to the next week-end.

Hopes of becoming wealthy overnight prompt people to send samples of well-water, rocks and metals to the University of Minnesota's geology department for analysis. An envelope received not long ago by Dr. George A. Thiel, associate professor of geology, contained a piece of metal and this letter: "I found this in the gizzard of the goose I was cleaning. Is the yellow material gold?" The "yellow material" turned out to be a piece of ordinary brass. Another person hoping for fabulous wealth wrote this letter to the geology department:

"I dreamed that there was gold in a gully near Dayton. I went there and looked and found a nugget. Do you think there is more gold there?" The fellow got a snappy answer in two words: "Dream again!"

Research —

(Continued from page one)

Future work includes an extensively planned program for studying the radiation of visible and ultra violet portions of the spectrum.

The X-ray laboratory has been designed and constructed in the Research Foundation shops. Dr. Ziegler is the director of this laboratory. Work in immediate prospect includes the investigation by X-ray of oil films of microscopic thickness. A portion of the studies are carried on in a dark room which was built specially for X-ray and spectroscopic work.

Laboratory Designed by Dr. Poulter
Designed by Dr. Poulter and constructed under his immediate supervision, the high pressure laboratory is one of the most interesting in the Foundation. The equipment has already been used to develop pressures as high as 600,000 pounds per square inch. This pressure is the same as that which would be developed under a 62 1/2 mile high hill of limestone. Numerous investigations of important changes in states of solids and liquids while under the influence of tremendous pressure have been made by Dr. Poulter. Some notable work has also been done in noting the influence of high pressure on optical properties.

Heat Lab Under Construction
By removing an entire floor to provide for a room of double height, adequate space has been made available for a special laboratory for filtration problems. Dr. Olaf A. Hougen will conduct this research project. A new heat transfer laboratory to be headed by Dr. Max Jakob is one of the projects now under development. This work will include studies of high pressure heaters, super-heaters, desuper-heaters, condensers, and regenerative valves of various designs.

Many research projects have been conducted in the Institute's buildings, other than the Research building.

Striking Portrayal of 'Winterset' Given by Players Group Last Week

By Robert Perry

Somewhere, Wednesday evening, Maxwell Anderson's telepathic creative soul chortled ecstatically, for the Armour players, in a transcendental rendition of his prize winning contemporary tragedy, "Winterset," did full justice to a difficult theme and held a capacity audience transfixed from first curtain to last. The players' previous presentations under their capable director, Walter Fulghum, "Waiting for Lefty," and "Quarry," although acted with an equal degree of skill, have been handicapped by virtue of being given in Mission, which, although crawling with tradition, has rather feeble acoustics.

MacConnell and Urso Supreme

Particularly to be commended for their brilliant interpretations of difficult roles are Monte MacConnell, who played Mio, and Katherine Urso, playing Miriamne. Mio's part demanded a precise delineation and sympathetic understanding of the character. His speeches at intervals flow imperceptibly into the flowing cadence of free verse and this, unless declaimed in a manner requiring practice and talent, was quite capable of inducing acute boredom. It is to the actor's credit that the hush in the audience was never broken save for the response to the character's ironically humorous remarks. The feminine lead, Miss Urso, who, in her own words, regards the Armour Players as "My favorite players' group," brought to the character of the gentle Miriamne an appealing poignancy that enhanced her personification in a part that seemed

to have been written for her. It is to be hoped that the players will be able to secure her services for further productions.

Bernard Sternfeld portrayed the gangster Trock, clinging desperately to his last six months and hesitating at nothing in order to assure his living them. Sternfeld, although making relatively few appearances, made an exceptional impression as the vicious, snarling killer. His reaction when his night's handiwork, the bullet shattered and dripping gunman, "Shadow" (William Miller), staggered through the tenement door, was classic in its simple emphasis. The audience's reaction to that spectacular entrance was summed up precisely, and with dispatch in the small feminine gasps of "Oh my!"

Supporting Actors Good

The principals could be no better than the supporting players and the supporting players acted their parts with sufficient restraint to direct attention to the primary characters rather than divide it. Mio's friend, Carr (Al N. Schreiber), typified the delicate balance necessary to direct attention without overbearing, and to lighten the drama without becoming farcical. Judge Gaunt (Richard Weissman) portrayed a convincing Judge in a manner that was in its particular manner equal to the general standard of excellence. Esdras, father of Miriamne, was well portrayed by Sidney Miner. Herman Ross interpreted the role of Garth with skill and feeling.

The players were fortunate all the

Open House —

(Continued from page one)

undertaken by the senior students will contribute largely to the exhibits. They will include a bubble cap fractionating column, an industrial filter used to purify crank case oil, a vertical condenser which is used in the condensing of organic vapors, the manufacturing of sponge rubber and the use of a low frequency rotary induction furnace.

Junior Chemicals Exhibit

The junior students will conduct work in two chemical laboratories. In the chemical engineering laboratory there will be experiments connected with electrometric measurements, single electrode potentials, conductivity measurements and a series of micro, vacuum, liquid, and gas distillation experiments.

The sophomore organic laboratory will feature some of the latest developments in chemical research as well as demonstrations of regular organic chemistry processes. As a part of the program, organic chemistry students will be engaged in the actual preparation of several interesting dyes and drugs, including the familiar sodium acetylsalicylate, the common aspirin.

Prepare Phenolphthalein

They will also prepare the drug and chemical indicator known as phenolphthalein, which is colorless in water solution, but turns to a pink in the presence of alkalis. Engenol, a sweet-smelling oil which can be extracted from clover, will be in the process of preparation by the students, while a collection of more than sixty other oils and aromatic compounds, some of which are prepared in a similar manner, will be displayed.

A number of exhibits dealing with the qualitative analysis of unknown liquids and solids and others illustrating the fundamental laws of chemistry will be shown in the freshman laboratory.

Interesting Physics Show

Experiments illustrating applications of the laws and theories of physics will be performed in the physics laboratories. Included among the demonstrations will be experiments showing radium extraction, smoke precipitation by electrostatics and standing waves, gyroscopic actions, liquid air phenomena, photoelectric effects, stroboscopic motion, Bernoulli's principle, thermoelectric phenomena, and the use of the static electricity machine.

The electronics laboratory on the second floor will present experiments exhibiting the more advanced study of physics. Several of these are the Roentgen ray (x-ray) machine and the high frequency discharge in vacuo and high efficiency mercury arcs.

The civil engineering department will feature exhibits and student demonstrations illustrating the applications of this type of engineering. Treatments connected with the purification of water will be carried on in the water treatment laboratory while the soil mechanics laboratory will feature interesting tests.

Demonstrate Water Filtration

Also included in the civil engineering display will be the exhibiting of photoelectric apparatus, surveying equipment, student drawings and works, bridge models, a map collection, and a Begg's deformator gage in operation. Movies of the summer camp activities will also be shown.

Fire Equipment Displayed

Exhibits consisting of the various types of modern-day fire extinguishers, automatic sprinkler equipment and models of typical buildings involved in fire insurance inspection work will be included in the display presented by the fire protection engineering department. The equipment on display has been loaned to the department by the country's leading manufacturers of fire protection equipment.

Math Group Shows Interesting Exhibit

Students, faculty, and industry combine forces to produce the mathematics department exhibit at Armour's open house. Models, charts, drawings and calculating machines feature the exhibit being held in the library.

Two students are among the contributors. John Catlin, a freshman, will show two beautifully constructed stainless metal models of cone sections. F. G. Schrot, also of the class of '40, will display a group of drawings showing an application of mathematics to the drawing room. They are designs developed from projections of mathematical figures.

The Merchant Company has agreed to show a calculating machine. These machines are almost human in the variety of work which can be done with them, yet super-human in their accuracy.

The bulk of the exhibit consists of charts and models which have been constructed by Professor W. A. Spencer after many years study and experiment with materials and construction. The charts cover all the principal fields of mathematics starting with algebra, continuing through trigonometry, analytical geometry, and including the calculus.

The models chiefly deal with problems in analytics, and also touch upon calculus. These models have a nationwide fame and were recently shown at the American Mathematical Society Convention in Chicago.

way through in their finds for the women's roles. Helene Iarussi, Lucille Potuto and Anne Rieck gave an air of authenticity to the persons they enacted and did much towards making the play the deserved success it was.

Wherever and in what manner the barrel organ was appropriated, regardless if it leaves Tony and fourteen little Italians starving, the manner of appropriation is forgiven and the person who found it may come forward and take his bow. The scenery was admirable and the final touch of having a barrel organ whose vital parts were not constituted of canvas lent reality to the setting. Whether or not the unsung heroes of the production staff are responsible, Joe Kuber may shyly receive the orchids and distribute them among the staff.

Drs. Krathwohl and Oldenburger Lecture

Dr. William C. Krathwohl and Dr. Rufus Oldenburger, professor of mathematics at Armour, will deliver lectures at the eighteenth annual meeting of the Illinois section of the Mathematical Association of America next Friday and Saturday at Northern Illinois State Teachers College at DeKalb.

Dr. Krathwohl will talk Friday afternoon on "The removal of certain restrictions from Simpson's Rule."

Dr. Oldenburger will deliver the Friday evening address, an illustrated lecture entitled, "At the International Congress Last Summer."

Profs Sigh; Classes Assume Vacant Look As Studes Dash Away

With sorrowful mien and tear laden eye professors survey their bleak and deserted rooms this week. The profoundest queries are answered only by echoes, to certain sour and embittered professors a decided improvement in intelligent response. Where, oh where, are the students whose hypocritical faces reflected only sympathetic joy at the elucidation of the inestimable advantages and soul jolting wonder of being able to track down the angle between two lines.

Out of every window in Main and Chapin peers a pathetic professorial visage. In every pedantic pan a question glimmers. Can it be that wearing down the grease on a pole can exert a greater fascination than pursuit of perspicacity? Hopeless to explain to the beknighted souls the plus ultra pleasure of freeing a fellow student from the stuffy confines of his pants; of the wondrous joy of garnering more gunnysacks than fellow classmates. How can one explain when the explanation is vague to even the participants?

However, it would be a puerile plan indeed that did not embody essentially that *classes will be excused*. Dear, dear, juniors; just when school becomes too, too galling (five physics finals behind), the juniors have a week. Meager, miserly allotment!! Make it a month next year. Write to your congressman today!

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Techawks Chalk up Two More Victories in Week's Play; Swamp Elmhurst 14-3

Pacocha Yields Only Five Hits

Elmhurst Pitcher Allows Eighteen Safeties

Armour (14)	Elmhurst (3)
Logullo, cf	Steffen, 2b
Dunne, 2b	Stoerker, c
Wagner, ss	Bloesch, ss
Kruse, lf	Vertorec, rf
Seidenberg, cf	Happel, cf
Shewchuk, rf	Krueger, 3b
Pacocha, p	Knicker, lf
Green, 1b	Lockman, 1b
Gebel, 3b	Jans, p
Penna, cf	Burke, 1b
Rocher, lf	Dalhouse, 3b
Bacci, 3b	Fuller, 3b
Lyckberg, 1b	
Skeppstrom, rf	
Moculeski, 2b	

Armour	121 102 421-14 18
Elmhurst	000 021 000-3 5

Joe "Potts" Pacocha, freshman pitching star, led the Techawks to a 14 to 3 victory over Elmhurst last Wednesday on the Elmhurst diamond. Pitching brilliant ball, Pacocha allowed the Elmhurst nine only five hits, while his teammates clouted the pill for eighteen hits and a total of fourteen runs. Batting honors of the day were taken by Logullo, Kruse and Gebel, each scoring a trio of hits and as many runs.

Techawks Start Early

The Techawks swung their bats into action early in the game when Kruse drove one into left scoring Logullo in the first inning. "Potsy" Pacocha retired the Elmhurst team by fielding two slow grounders and fanning the last batter. In the third inning, Pacocha walked and Gebel singled, and both of them streaked home on Logullo's single, bringing the tally to three runs. While the Elmhurst batters were unable to connect, the Armour ballmen continued bringing in the runs.

Elmhurst Scores

The Techawks found their worst inning in the fourth when they were pelted for three hits and two runs. Steffen started the rally by lining one over second, but he was forced at second on Stoerker's hit. A double by Bloesch and a single in center by Vertorec accounted for two runs. Elmhurst came through with their last run when Knicker scored in the fifth.

Following these minor rallies, the Techawks tightened up and Elmhurst went hitless for the rest of the game. With bases loaded in the seventh, Wagner smashed a single scoring Gebel and Logullo. Following suit, Kruse sent one soaring out in right, falling just a few feet short of a home run. Dunne and Wagner crossed home plate before the side was retired.

Pacocha Comes Through

With the bags loaded and no outs, Pacocha, with a display of superb hurling, pitched himself out of a tough jam in the seventh inning. Fanning Steffen and forcing Knicker at home, Pacocha retired the side when Bloesch was put out at first on a weak grounder. A trio of singles by Pacocha, Gebel and Logullo in the eighth added two more runs to Armour's already overwhelming score. In the ninth the Techmen raised the tally to fourteen runs when Kruse streaked home on Skeppstrom's single into left field.

Golfers Drop Second Match by 12-9 Score

In an attempt to prime themselves for their out-of-state matches coming up this week, Armour's golf team lost to the Eastern State Teachers by the score of 12-9, Friday. Oglesby, champ of the Little Nineteen, shot a sparkling 75 over the difficult Southmoor course.

Skuza was low for Tech with 84, but was pitted against Oglesby's 75. In doubles, however, he managed to clear three points from Newill's 93 score. Likewise Shanahan took some from Newill with an 85. Sunde cleared three points for Armour with an 87, conveniently spreading his margin over Carlson's 90 to win both nines as well.

The team left this morning for Detroit. On the trip they will play Western Teachers, Detroit, Wayne, and Toledo.

Dunne Wallops Home Run As Naperville Cards Fall 5-3

TECH'S THIRD WIN

Armour (5)	North Central (3)
Logullo	Tiefenthal
Dunne	Oosterle
Wagner	Graver
Seidenberg	Leasure
Kruse	Way
Pacocha	Hollman
Shewchuk	Lewis
Gebel	Stratton
Green	Parker

Outscoring their Naperville opponents, 5-3, the Techawk nine cinched its third victory while host to the North Central Cardinals in a heated battle last Monday afternoon. The heat was applied a few times during the game when the rivalry of the teams took its course between Cardinal basemen and Tech runners.

Dunne Gets Homer

Dunne roused the stands to a cheer when he cracked one 20 feet past the white post on the centerfield fence for the first home run of the year. Kruse, who donated nine strikeouts to the cause, pitched exceptionally well in tight situations, weakening only momentarily in the ninth.

In the eighth, with two men on, he struck out two to kill an important score on third. Logullo made a flashy catch in centerfield during the ninth inning when a North Central rally seemed to be gathering momentum.

Techawks Score

In the second, Kruse hit through second base and Pacocha sacrificed. Shewchuk then reached first, but Gebel hit to force Kruse at third. On an overthrow to second, Shewchuk tried to round third but met some North Central opposition when Way intentionally blocked the base. The score was made on the next play, however, when Green lined one to right field.

With bases loaded in the third against them and one down, the Tech nine played good ball and allowed only one Cardinal run to score. A running catch in deep center by Logullo closed the inning with two more potential runs dying on base. Shewchuk made Tech's second score in the fourth, again on a wallop by Green.

Rally Stopped Short

Dunne scored the fourth run for Armour unassisted as he potted the ball over the centerfield fence. A wallop over right by Pacocha and another by Gebel in the eighth brought in Armour's fifth run and left the score 5-1 at the beginning of the ninth.

At this time Stratton reached first on a high throw by Dunne, and Parker hit to put runners on first and second. Tiefenthal hit to left field to score Stratton. A fly out to left and a pop up along the short center fence, nabbed by Logullo on the run, made two of the outs. Parker scored after the catch, but then Tiefenthal was caught out at second to end the game.



We see that the old North Central jinx doesn't seem to be bothering the Techawks this season. Last Monday the baseball team defeated them 5 to 3, and Wednesday our tennis team brought back a 6 to 1 win over them.

Speaking of the tennis team, we'll get a chance to see them in action when they open their home schedule tomorrow against North Central. Another win over the latter would suit us fine.

Our track team will get a chance to strut their stuff in big competition again next Saturday, when they take time out from dual meets to enter the annual Elmhurst Invitational.

Both of the games played this week by the baseball team will be away. This Wednesday they are scheduled to meet the tough Wheaton team, while Saturday, they take on Ypsilanti, at the latter's field.

On perusing the records, we found out that so far this season "Willie" Kruse has hit safely in every game, playing a total of seven. He had two in the season's opener against Chicago, another in the second with Chicago, two against De Kalb, in their first meeting, two more against North Central, another one against De Kalb, and one and three during the past week against North Central and

BATTING AVERAGES TO MAY 6

	A.B.	R.	H.	Aver.
Skeppstrom	2	0	1	.500
Wagner	32	6	13	.406
Kruse	31	8	12	.388
Pacocha	26	4	8	.308
Shewchuk	23	3	7	.305
Gebel	22	4	6	.273
Dunne	33	6	8	.242
Logullo	33	9	7	.212
Green	22	1	4	.182
Seidenberg	30	4	5	.166
Skrzydlewski	9	1	1	.111
Rocher	7	0	0	.000
Janas	4	0	0	.000
Bacci	3	0	0	.000
Rodkin	1	0	0	.000
Tullgren	1	0	0	.000
McGrath	1	0	0	.000
Team Average	257			

Elmhurst, respectively. His total to date is twelve out of thirty-one, giving him an average of .388. Not bad for a pitcher, is it? We think so too.

Last week in listing our "Big Six" we slipped up and missed two of Ed Wagner's hits. Instead of being third with .318, he actually was first with .410. Our error Ed, we're sorry.

Instead of a "Big Six", we've decided to make things more exclusive, so starting this week it will be a "Big Four". Still in the top position is Ed Wagner who dropped a trifle, but still stayed over four-hundred, with .406. Second in line is Kruse with .388. Third place is taken by Pacocha with .308, and Shewchuk is right at his heels with .305.

The softball tournament fared out better than usual last week, playing

nine out of a scheduled eleven games. One of last week's leaders maintained the pace by adding another victory to its two previous ones—by the way we're referring to the senior civils, while the junior juicers, by virtue of two wins went into a tie with the former. An unexpected setback occurred when last week's co-leaders, the junior firemen, suffered two successive defeats last Friday and elimination from the tournament.

From the looks of things the golf team is going to do a good job of putting most of their schedule behind them during Junior Week. They are scheduled to be away all week, playing matches every day except Friday. They must be superstitious. Today they are playing at Western Teachers, tomorrow they match strokes with Detroit, on Wednesday they tackle

(Continued on page six)

EN GARDE!

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HE BROKE the world's indoor 440-yd. dash record twice in one day. Ray Ellinwood—sensational U. of Chicago quarter-miler—prefers Camels. "I find that Camels opened the door to smoking pleasure," he says.

WRESTLING ACE, Joe Green, absorbs plenty of punishment. "A long training grind strains nerves," says Joe. "I enjoy Camels often—they never jangle my nerves. When I'm tired after a bout, a Camel gives me a real 'lift' in energy."

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Senior Civils, Junior Juicers Lead Tourney With Three Softball Wins

Five Drop Out in Third Week of Play

Jr. Mechs Win 6-4

A close, exciting game between the junior chemicals and junior mechanicals played last Tuesday, ended with the score, 6-4, in favor of the mechanicals. The schmiere took an early lead on errors, and the score remained 4-1 in their favor until the sixth inning. Then the mechs came to bat and after loading the sacks, scored the tying runs on Fred Engelthalers' three bagger which rolled out the gate. In the same inning two more mechanicals crossed the plate due to bad fielding by the chemicals. In the next inning the schmiere loaded the bases with no one out, but failed to push any of their men across the plate, leaving the score in its final stage at 6-4.

Senior F.P.E.'s Win

Fighting to stay in the tournament the senior fire protects, last Wednesday, eliminated their classmates, the senior mechs, 6 to 3. Scoring opened early when the firemen scored twice in their half of the initial bracket. When Appel, the mech's pitcher, made a nonchalant throw over the first baseman's head in the second, the firemen added another run to their tally.

Each team put one across in the third, the fire protects on two mechs, and the mechs on two hits and a long fly. A run in the fourth by the mechs brought the score to 4 and 2, but the fifth saw the firemen add two more to their tally, when Gunther singled with loaded bags. A score by the mechs in the following inning brought the score 6 to 3.

Jr. E.E.'s Rally To Win

The junior juicers almost blew a fuse and a good chance for a place in the softball tournament outcome when they met the Soph Co-ops. The Sophs started things off by banging out four hits to send three runs across home plate before the juniors could make the third putout. They retaliated with a lone score in the second and dropped four runs behind, 5 to 1, when the second year men drove another two scores across home in the fifth.

However, as the fifth inning ended, so did the Soph's hopes for victory. The electricals batched six hits for four runs and would still have been scoring had not Maciejewski at first made a pair of snappy unassisted put outs. The teams then played tie ball for three innings due to Heidman's sweet pitching and the good fielding work of the Co-ops. Something drastic happened to the sophomores' morale and skill in the eighth, when the electricals turned on the juicer to bat around and chalk up six runs to cinch their second straight win in the interdepartmental softball tourney.

Senior Chems Win 15-2

Turning in their second victory of the softball tourney the senior chemicals came through last Thursday with a 15 to 2 win over the soph co-ops. As the score indicates, the game from start to conclusion was all chemical. Blasting out hit after hit they completely overwhelmed their underclassmen, whose only efforts netted them two tallies. In losing this game the soph co-ops made their exit from the tournament, since Wednesday they fell before the junior juicers.

Frosh Co-ops Lose 10-1

The soph electricals battered their way through another game by trouncing the freshmen co-ops 10 to 1 last Friday. The sophs opened the game by scoring three runs in the first inning, but the freshmen were not as successful and were unable to score their lone tally until the last half of the fourth inning. By this time the juicers had a comfortable lead of five runs. Holding the freshmen scoreless for the remainder of the game they then scored five more runs making a total of ten. All of the runs were gained from hits with none of the walks materializing into runs.

Meteors Shut Out Soph C. E.'s

Playing six innings of ball, the frosh "Meteors" shut out the Soph C. E.'s for a 7 to 0 victory. Pounding the sophs for only five hits, the frosh scored their runs on the variety of errors the sophs presented. A trio of singles filled the bags

in the second and two runners streaked home after pop fly to center. The frosh ran wild in the third, scoring four runs bringing the tally to six runs. Lurz started the rally when he went to first on an error. Fahey followed suit with a single to left. A pair of walks which came around brought the tally to six runs. The seventh run was scored when Pincus slapped a beautiful homer in deep right field.

JR. E.E.'s Take Third Win

Continuing their winning streak the junior electricals decisively defeated the senior fire protects last Friday, 12-3. A total of eighteen hits, two of them homeruns, were enough to beat the seniors' seven hits.

In a wild first inning the electricals put four runs onto their tally sheet by all but completely batting around, while the fire protects came back in their half of the inning to score all of their three runs, on a hit and five errors. For the rest of the game the seniors went hitless, but the juicers added three in the third, two in the fifth on Hazelton's home run, two in the sixth, and a final run in the ninth. The three runs in the third were accounted for by the home run of Heidman with two on.

It's Senior Civils Again

Last Friday saw the senior civils continue ahead at the expense of the junior firemen, who at the end of last week were in a tie with them for the lead. The final score of 13 to 6 in the civils favor gave the seniors their third straight win.

A rally in the initial bracket netted the civils seven of their runs, enough to win the game, since the actuarials crossed the plate only six times in the course of the game. Another rally in

the ninth by the civils brought the score to its eventual standing at 13 and 6.

Jr. Ch.E. Eliminate Jr. F.P.E.

In their third game of the tourney the junior schmiere turned in win number two with a 8-0 decision over the junior firemen. The chemicals took advantage of a cluster of hits and errors along the third base line in the first inning to fill the bases and then push one man across the plate for the first tally. After this initial spree they took the field to retire their opponents in order. The fire protects settled down to do some serious ball playing and succeeded in holding the chems scoreless for two more innings. In the fourth Bodnar made first base and then was advanced to third. He scored easily after Sheehan caught a high fly in deep left field. Two more hits gave the schmiere two runs to end the scoring for the inning and the game.

Softball Standing

Out of the original field of eighteen entries in the softball tourney there remains only eight at the end of three weeks of play. Three teams were eliminated week before last, and the other five dropped out last week.

Since the field is yet so large, no attempt will be made to conclude the tourney during Junior Week, but instead continue on until enough eliminations have been turned in to have a semi-final and eventually a final. The present standings of the tourney are tabulated below.

Team	Won	Lost
Junior C.E.	3	0
Junior E.E.	3	0
Junior M.E.	2	0
Senior Ch.E.	2	0
Soph E.E.	2	1
Junior Ch.E.	2	1
Frosh Meteors	2	1
Soph Ch.E.	1	1
Junior C.E.	0	1
Frosh Co-ops	0	1

Tech Shorts—

(Continued from page five)

Wayne, and on Thursday they conclude their tour at Toledo. On Saturday they make things complete by playing Loyola at Southmoor.

Those tennis racket wielders who failed to qualify for the team will get a chance to show their colors in the annual spring tennis tourney which is scheduled to get under way soon. First call for men is being issued this week. All those interested should make an appearance at the meeting, time and place of which is mentioned on this page.

Junior Week Sports

Baseball—

This week will be a busy one in sports around the Armour campus. Starting tomorrow we see the opening of the interclass baseball tournament when the freshmen tackle the sophomores. Wednesday the juniors and seniors meet, and on Thursday the final game will be played. Another feature of the week will be the annual faculty-senior baseball game, to be played Tuesday.

Track—

Also tomorrow, the track events get under way with the interclass relays. Then on Thursday the all around athletes of Armour will vie for honors in the Pentathlon. This is run off in two divisions, one for track lettermen, and another for the non-lettermen.

Although the finals of the interfraternity softball are scheduled for Tuesday, they will probably be held on Wednesday, due to a convention which will remove the fire protects from the field. Scheduled for Wednesday also, is the track tourney, which if all is well will start at 9:30.

Tech Netmen Win From Cards 6-1; Tie Wheaton 3-3

Last Wednesday the Armour Tech Tennis Team journeyed to Naperville to defeat the North Central Cardinals by a score of 6-1.

Playing number one, Swanson had no trouble in defeating Groom 6-3, 6-4. Natinchek's win in the second singles was easier than the scores of 6-3, 3-6, 6-4, indicated. Boehme rallied to take the third set of his match and win by scores of 6-4, 0-6, 6-4. Joe Kubik then cinched a victory for Armour by winning the fourth singles 6-3, 8-6. Herz, playing in the fifth spot, lost the only match 2-6, 1-6. Natinchek and Boehme had little difficulty in winning their doubles match, while Swanson and Kubik rallied to win the last two sets after losing the first.

This overwhelming victory was of especial significance to the members of the team, because of their earlier loss to Loyola, inasmuch as North Central defeated the Loyolians by the score of 4-3. With three regulars, Swanson, Natinchek, and Boehme, and a substitute, Kubik back from last year's team, the season should undoubtedly be a successful one.

Tie Wheaton in 3-3 Battle

A group of hotly contested matches the Techawks fought to a 3 to 3 tie with Wheaton last Friday when they met on the latter's courts.

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All men interested in a spring tennis tournament should meet in the physics lecture room on Tuesday, May 11, at 3:15 p. m.

Fischer led off for Wheaton by defeating Swanson of Armour in three sets, 6-4, 1-6, 6-3, but the score was tied up when Natinchek, number two man for Armour came through over H. Moffett 7-5, 6-2. Boehme lost another tough match for Armour, to Kent, 1-6, 6-4, 3-6. Kubik came back for the Techawks however, and after three hard fought sets, came out on top 3-6, 6-3, 6-4.

In the two doubles matches the two teams again split on wins. The Moffett-Moffett combination proved too much for Swanson and Kubik, but Natinchek and Boehme came through to win over Fischer and Kent 4-6, 7-5, 6-4.

Class of 1912 Will Hold Grand Reunion

In commemoration of their 25th anniversary, the members of the class of 1912 are planning a grand reunion at the University Club of Chicago on Saturday afternoon, May 22, and at the alumni banquet on May 25.

It has been 25 years since the members of the class of 1912 received their diplomas and started climbing the ladder of success. Half of the 69 members of the class are now far removed from Chicagoland, some of the countries represented being Japan, China, Russia, South Africa, England, France, Italy, and Australia. They are spread from California to Maine and from Florida to Minnesota.

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