



Frosh Dance in Offing; Launch Sales Campaign

Straight's Band Plays At Lake Shore

Armour "frosh" will hold their first social event, Friday, April 22 and is to be called the "Freshman Foot Tangle." This auspicious affair, to be held at the Lake Shore Athletic Club, will feature music furnished by Charlie Straight and his orchestra, the lyrics to be rendered by Judy Talbot.

The committee headed by H. N. Leave, chairman, consists of B. Mandel, F. Reh, P. Shaffer, E. Steinke, J. Weber, and H. Zimmerman, has completed all arrangements for the dance.

Because of the extra effort expended by the members of the committee, several added conveniences will be available to those who attend the dance. One of these is the use of a spacious lounge directly across from the dance floor. Another is the use of the Club's spacious parking lot.

The bids, which went on sale last Friday morning, can be obtained from any of the members of the social committee. A combination bid and program, the bid is bright green of clever design, is enclosed in a white envelope. Bids are priced at \$1.50, and a free bid will be given to any one selling eight of them.

Straight's orchestra, which is furnishing the music, was procured by Leave after much difficulty. This orchestra is one of the better bands in the city and will be especially good for this dance because it is just about the right size and type for the hall. Miss Talbot, who is taking care of the vocal selections, will furnish a double attraction. She is not only a very excellent singer but she is also very easy on the eyes.

A special feature that is being contemplated is a dating bureau. P. Shaffer, who is to be in charge of this bureau has been making arrangements to furnish anyone, who buys a bid, with a date, if he is unable to get one. If the formation of this bureau, which is at present merely tentative, materializes, and it will prove to be a god-send to many of us.

Musical Clubs Present Concert in La Grange

Traveling through heavy snow drifts, the Armour Tech Glee Club and Orchestra journeyed to La Grange where they presented a musical program at the Oak School auditorium last Thursday evening. As guests of the Ogden-Oak Parent-Teachers Association, the musical organizations again won the applause and admiration of the audience and increased their ever widening circle of friends.

The program was promoted by Mr. J. F. Mangold, one of Armour Tech's well known instructors. Mr. W. Littlewood, noted aviation engineer and vice-president of the American Airlines, was presiding chairman for the evening.

The great deal of publicity which had been given the concert resulted in a large and appreciative audience despite contrary weather conditions. The Armour Tech faculty was represented by Professors J. F. Mangold, A. H. Carpenter, and J. B. Finnegan. During the intermission Professor Finnegan addressed the audience on the "Value of a College Education." He suggested a modern idea to fit our modern day and age: "the present day educated man must be well-versed in the sciences and humanities if he is to be successful in the technical world in which he now lives."

As a fitting climax to the evening activities, the ever popular and looked forward to refreshments were served in the well known P.T.A. manner.

Four to Don Oiler's Cap and Whistle as Pi Tau Pledges

Four junior mechanicals were pledged to the Pi Tau Sigma, honorary mechanical engineering fraternity last Friday in the Pi Tau Sigma rooms.

George J. Derrig, Paul Hendrikson, Joseph J. Janicek and Harry C. Soukup were the men who were pledged. Scholastic ability was not the only requisite for pledging. Extra curricular activities and personality were a necessity.

Chess Club Sounds War Cry Opponents Cower In Fright

Armour Tech's Chess Club has defeated two teams in recent months. The Irving Park Y.M.C.A. and the North Park College groups were each defeated by scores of 5 to 0. The club, because of its success this year and last, is having great difficulty in securing meets. Local organizations, notably Chicago, whom they beat last year, have repeatedly refused the Chess Club's challenges.

In the recent tournament Adolph Rune, the club's president, defeated Ernest Koehler, vice-president, to win the round-robin. Paul Ewing is secretary, and Ralph Wagner is treasurer of the organization. Play is held in Chapin drafting room during lunch hour. New men are welcome at any time.

P. L. U. Pledges One Senior, Five Junior Chemicals

Six men were pledged last week to Phi Lambda Upsilon, honorary chemical fraternity. They are: J. Kubik, senior; R. Boertitz, B. K. Lyckburg, R. T. Smith, J. D. Keane, Jr., and S. J. Moculeski, juniors.

Before being pledged these men went through an extensive laboratory examination, preceded by a three-hour written examination.

The pledges, under supervision of Pledge Captain H. J. Bodnar, are now wearing the blue and red pledge ribbons denoting the colors of litmus paper. The pledges are also engaged in carrying flasks of colored solutions around with them to denote their pledging.

News Smoker Marks Decade of Progress

Three Junior Electricals Pledged to Eta Kappa Nu

George Palka, president of Eta Kappa Nu, announced the pledging of three junior members of the electrical engineers to the honorary fraternity. The pledges are A. M. Zarem, L. R. Kasper and J. D. Hebbson. The fraternity is an organization that honors the members of the electrical department of Armour Tech who have distinguished themselves scholastically.

The pledges will be required to perform various duties before their formal initiation. Every pledge is required to wear a flashlight bulb in his lapel, and flash the light whenever an active member of the honorary fraternity is met. In addition every pledge will be required to take a written examination. The pledging was announced last Wednesday in the Eta Kappa Nu rooms.

Chemicals to Inspect Paint Company Today

Today the senior chemical engineering students will inspect the Sherwin-Williams Paint Company Plant at 115th and Cottage Grove avenue. This trip is one of a series of educational trips which will endeavor to acquaint Armour Tech's senior chemicals with the activities of the chemical industries. The trip will include many interesting phases of the processes involved in the manufacturing and testing of pigments. Pigments form the basic covering surface when ground in linseed oil or some other bonding agent.

The Old Dutch Process is one of the most interesting because this method, which originated centuries ago, is still continued in much the same way today. In this process lead is cast in the form of perforated disks, which are called "buckles." These disks are stacked in crucibles which contain a shallow layer of dilute acetic acid. The vessels are stacked in tiers in a large room and covered with spent tanbark. The production of white lead is the result of the action of acetic acid vapor, carbon dioxide, water and oxygen upon the lead. The process requires three to four months to complete.

The United States alone produces about 200,000 tons of white lead annually. The Sherwin-Williams Paint Company manufactures many types of covering materials and as a result, their motto is "Sherwin-Williams Paints cover the earth."

Night Hawks Present Films on Research

Two movies shown at 3:00 p.m. last Saturday in the Armour Mission marked the first of a series of activities to be sponsored by the Night Hawks, Armour Tech's Evening Division Student Association.

"Flow," a picture illustrating the use of various types of valves and fittings in connection with the flow of fluids and gasses, was presented by Crane Co. It gave the steps in their manufacture and showed the various production methods used. Remarks were made by Mr. J. P. Magos, a research engineer for the Crane Co. Mr. Magos is a former Armour student.

"The New Frontiers" was a release by the Westinghouse Electric and Manufacturing Co. of the popular type, telling of contributions made by Westinghouse research to modern society. Developments in communication, industrial research, lighting, power, and transportation, which are among the activities of these laboratories, were shown by this film.

As the next event of the Evening Division Student Association, W. E. Koch, the president, and Professor B. B. Freud, dean of the evening division, plan a social occasion. Particulars of this event which will take place some time next month are soon to be announced.

J. Hommes, First Editor, Travels 300 Miles To Attend

Tenth Anniversary Week of the publication of the *Armour Tech News* was climaxed last Friday night by one of the most successful smokers in the history of the *News*.

John Hommes, the editor-in-chief of the first *Armour News*, traveled 300 miles from Louisville, Kentucky, just to attend the celebration event. He arrived at 8:15 on the Pennsylvania at the 63rd street station, and then without first going home to his parents who live in Chicago, he rushed over to Armour to be enthusiastically welcomed by the present staff and guests of the *Armour Tech News*.

By coincidence a guest of Professor Hendricks, E. Merrill Root, poet in his own right, critic, and Professor of English at Earlham College, Richmond, Indiana, was coming in on the same train. Professor Hendricks, however, expected to meet both men at the downtown station and so missed Mr. Hommes. Professors Root and Hendricks arrived at school to be surprisingly greeted by Mr. Hommes. John laughingly remarked that even though coming 300 miles, he still got in ahead of Professor Hendricks.

Also present from the staffs of preceding years was Mr. Rudolf, editor in '32. Mr. Rudolf was the first editor who was not in school when the first issue of the *News* was published.

Fred Leason, editor in '36, was also present. Others from the staff of that year were H. Bauermeister, copy editor, and J. Kubert, sports editor.

L. Parker and J. Sheehan, modest as usual, stood briefly in acknowledgment of the applause given them in recognition of their co-editorship during '37. R. Beardsley, desk editor; R. Braun, sports editor; and A. Schrieber, copy editor, all of '37.

(Continued on page four)

Marshals Hasten Plans for Week

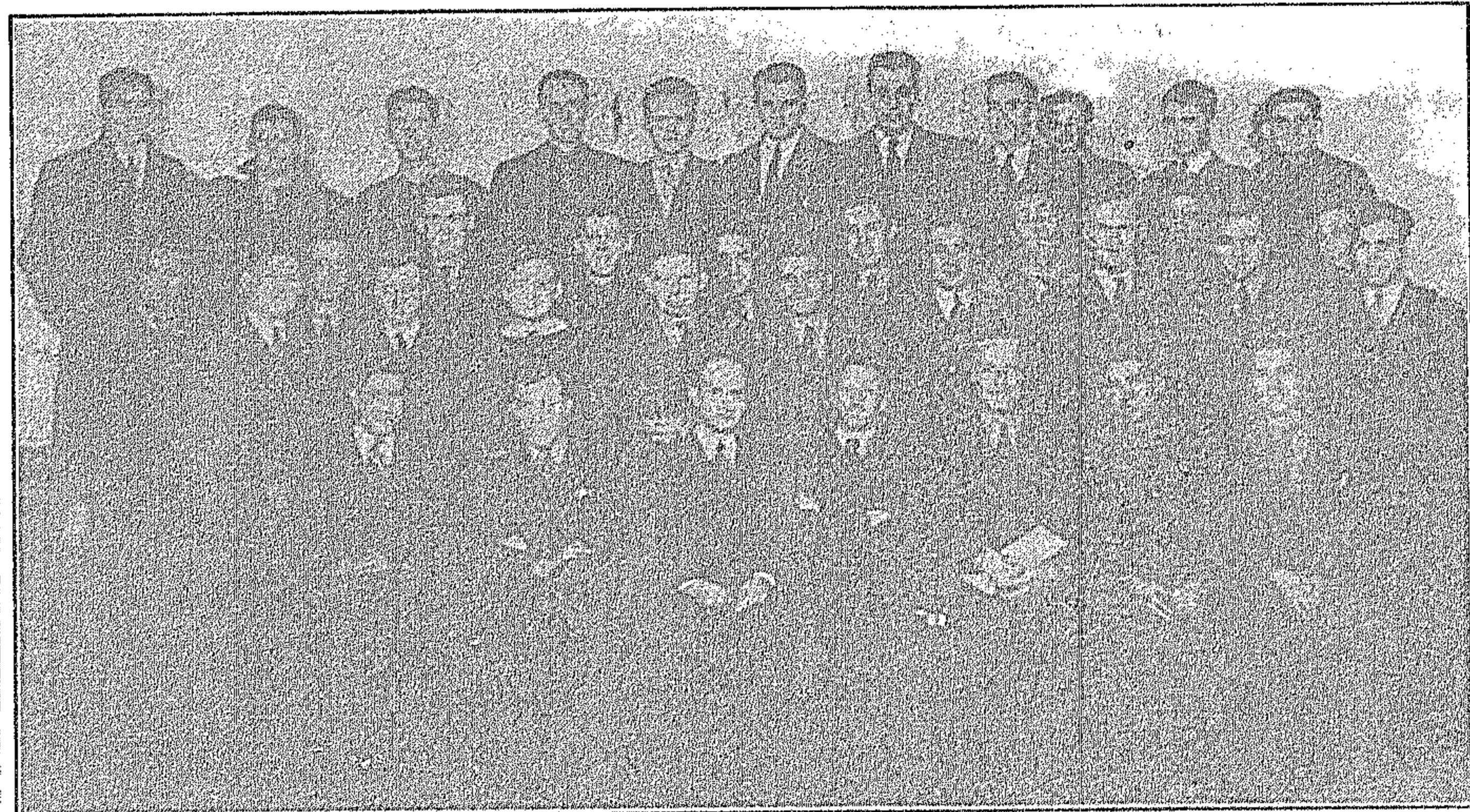
Among the many plans being molded for JUNIOR WEEK, which is a month in the offing, is a trophy to be awarded to either the freshman or sophomore class. The class earning the most points in the events where the two are pitted against each other, as in the traditional "Rush," will be awarded the trophy. With the Junior Marshals holding weekly meetings, rapid progress is being made on the plans for the oncoming traditional week. The shortened time for the week will be no hindrance, and only serve to make the days more intensive, the excitement higher, and the competition keener.

The interfraternity track meet will be held on the Tuesday before open house to allow plenty of time for the other classics as the relay, the "Rush," and Senior Faculty game. That night the doors of the fraternities will be wide open to one and all, with dancing and refreshments.

An eight piece orchestra will swing out an open-house night. After a strenuous afternoon of explaining the mysteries of science to John Q. Public, the more practical engineers will retire to the fifth floor with Miss Public for a little plain and fancy stepping. As a suitable climax to the festivities the Junior Informal will come at the end of the week. One of the country clubs in the suburbs of Chicago will probably be the site.

Head Marshall Janicek announced that other events planned, which have not as yet matured, will be made known as soon as possible.

ANNIVERSARY SMOKER



Front Row Left to Right: Sheehan, Leason, Rudolf, Prof. Hendricks, Hommes, Parker, Kotal.

A. Zarem to Preside Over A.I.E.E.; Kiefer Voted Honor Award

Officers of the A.I.E.E. for the coming year were elected at Friday's meeting. The nominees for chairman were R. I. Bush, A. M. Zarem, and F. C. Brewster. Zarem winning the election. For vice-chairman, R. I. Bush, W. J. Kurtz and E. K. Osterberg were nominees. The first vote eliminated Osterberg. A runoff between the two remaining candidates elected Kurtz to the office of vice-chairman. R. Kotal was elected secretary and E. K. Osterberg was elected treasurer. Professor E. H. Freeman was re-elected to the office of faculty counselor.

A one year fully paid associate membership in the national A.I.E.E. was awarded at the A.I.E.E. meeting held last Friday to W. M. Kiefer, senior electrical. Kiefer was elected from a list of eight men by vote of the local branch members. Six nominees for receipt of the award were selected by the student papers committee in charge of E. Brown, chairman. Two additional nominations were made by the branch members. Eligibility of students was judged by their scholarship, extra curricular activity, potential ability as a national A.I.E.E. member, and activity as a branch member. Those deemed eligible to receive the award were I. Gebel, G. M. Ives, W. M. Kiefer, W. J. Laise, J. F. Sodaro, R. E. Worcester, G. A. Palka, and R. T. Duffy. It was necessary to take two votes. The first vote eliminated all but Kiefer and Ives. The second vote elected Kiefer as award recipient.

It is planned to start the new term of office this spring rather than in the fall. This is to enable the new officers to become accustomed to their positions before the new school year begins.

NOTICE
Because of the Easter holidays, there will not be any issue of the *Tech News* next week.

Thespians Revel At Spring Party

The Armour Players Guild had its long awaited blowout last Saturday night in the Mission. In spite of the snow and its accompanying difficulties the members turned out in good spirits and had a thoroughly enjoyable time for themselves. The memories of how they worked to get the money for their party assured the fact that each and every man was set to enjoy the fruits of his labors.

The high point of the evening was the return of Armour's former heroines, Katy Urso, Mary Russo, and Yvonne Kavana. The guild members decided that the young ladies who had helped them in their past successes should have a part in the fun. As was expected, the phrase "Hey, do you remember in Winter-set how we did this or that?" was heard all over the building.

The refreshments of sandwiches, punch and cake were the most interesting part of the whole affair. From the way the cake vanished, its unknown creator should be given a medal. The entertainment for the evening consisted mainly of dancing. A radio furnished by one of the members furnished the necessary sound effects. Whatever time that remained was taken up with the usual bull sessions and monkey business. Some of the boys tried to get Hunter to put on his juggling act, but he forgot to bring the equipment.

Although this party was of a very different type as contrasted to the last one, where they took in a performance of "Tovarich," all of the members seemed to enjoy it just as much. The presence of Mr. Fulghum, the original sponsor of the guild, and Mr. Combs, the present director, made the evening complete. All of the members are looking forward to a new play and another celebration. Several plays are being considered for the future, but no decisions have been rendered.

A.S.M.E. Convention To Be in Milwaukee

A delegation of more than fifty members of the Armour A.S.M.E. will attend the annual midwest student conference which will be held April 18-19 in Milwaukee, Wisconsin. Albert N. Schreiber, the official delegate, who will represent Armour at the conference, will present a paper on "Railroad Transportation." Professor H. L. Nachman is the honorary chairman of the delegation. Prizes of 25, 15 and 10 dollars will be awarded for the best student talk. Winners of the competition will be announced at a luncheon Tuesday, April 19. Mr. H. N. Davis, National President of the A.S.M.E. will deliver the address.

The convention will open Monday, April 18, with an inspection trip through the Allis Chalmers Manufacturing Co. A welcome meeting will be held for all the delegates. This meeting will be directed by I. Thomas, president of the Armour Student Branch.

Thursday's program includes inspection trips through several industrial plants in the Milwaukee area. These include the A. O. Smith Company, Phoenix Hosiery Mills, and the Port Washington Power station, one of the most efficient power plants in the world. A trip through a famous Milwaukee brewery is also planned after the conference.

Membership Qualifications To Armour Eye Now Limited

For the first time in one and one half years of existence, the Armour Eye, at their meeting last Wednesday, laid down definite rules and qualifications as to membership in the club. Incentive for joining is offered to camera minded Armourites in the form of club rooms, a fully equipped studio, and two dark rooms.

The initiation fee has been set at \$3.50 and all applicants must be voted in by the active members.

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On behalf of the faculty and members of the student body, we wish to express deepest sympathy with N. Levine whose father recently passed away.

Armour Renaissance

"You're going to Armour Institute eh? What is it? A trade school for meat packers sponsored by the stockyards?" Such a query, not so many years ago, would not be infrequent. Our school, it seems, used to be rather reticent about letting people know of itself or of its affairs—operating, presumably on the principle that if you built a better mousetrap the world would beat a path to your door, even if you lived in rundown quarters "behind the tracks." An alert administration saw, however, that the world wasn't beating a very deep path to their door, however excellent was the preferred mousetrap. A renovation was in order. The first step in the renovation was to improve the plant. A program of rehabilitation, still in

progress, was begun. Broken sidewalks were repaired; crumbling old Chapin was given a new lease on life through extensive improvements; new offices, classroom, washrooms, etc., were built; soot-laden walls were washed and calcimined; in short, the old school took on a fresh progressive air.

The next and most important step was to let people know about the school—its past achievements, what it is now doing, and what it intends to do in the future.

This was done in many ways. A research foundation, headed by a famous scientist and manned by established researchers was organized and put into operation. Besides the added prestige and dignity which the Foundation lent the school, it provided an invaluable means of contact with industries in the engineering field. "Round-table" conference courses whereby representatives of the important industries might gather to discuss their problems were organized. The problems of these representatives were discussed, but more important to us is the implication which must have been left in their minds that here is a "live" school awake to the needs of industry.

A cooperative mechanical engineering course was started. Through this connection with the school, still more industries became "Armour conscious." The evening division, which in 1931 suffered a very low attendance, recently enrolled 2400 students, most of whom are employed by industry during the day—meaning more favorable publicity for the school. This getting Armour into the industrial eye will eventually mean one thing—more and better jobs for her graduates.

What of the public? Weekly radio talks, glee club concerts in high schools and public places, an active publicity office, enormous issues of the "Armour Engineer" being sent everywhere, advertising literature, etc., are all directed to the fulfillment of one objective—that of informing the public about Armour. One of the main purposes of this publicity is to attract more and better students. Already the school is beginning to select; in the last enrollment, many were rejected because the school could hold no more.

In order to gather the reins on these and other similar undertakings the board of trustees has organized a public relations department. The department was really needed, for all such related endeavor should be administered by a single office.

The school has progressed mightily since this promotional program was started. Remember, too, it is barely started. Hold your hats—we're going places.

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

Somewhere in the throng of students milling through the hallowed halls of this institute there stalks a man of destiny, a man whose intellect overwhelms his fellows . . . In short, a chap who might one day drop a contrib in the box in the lobby . . . after all this constant thumbing through back issues is very tough on the eyes . . . In fact anyone contributing a whole *!&@! column is practically certain to win undying fame as author and gentleman, but, Lord knows, never as a humorist.

We've finally located Yeakle's contrib of three weeks ago.

Quote:
In the spring a young man's fancy turns to what the girls have been thinking about all winter.

Unquote.

"Consomme, bouillon, hors d'oeuvres, fricasse poulet, pommes de terre au gratin, demitasse des glaces, and tell that mug in the corner to keep his lamps offa me moll, see?"

And then there's the guy who become a monk so he could celibate all year . . .

Then just to encourage contribs I print a verse offered me by Lloyd W. Norkus, who was happily and innocently unaware that it doesn't scan, doesn't rhyme and is, all and all, utterly revolting to a sensitive soul.

Roses are red, your nose is blue;
 This joke will lay an egg.
 Can you?

Here I am surrounded by Mechanicals, all of whom are inquiring of each other in tones dripping with pathos, "How do yuh find the area of a rectangle?" "My goodness, does the belt run on the outside of the wheel?" Any chemical will understand the way I'm suffering and why I find it necessary to exit hurriedly.

And incidentally, one does not jest when one asks for contribs, does one?

Forgive me, for I do what I do under protest.
 B(Bo-Peep)R.S.

Zielenske Talks on Hazards of Oil at F.P.E.S. Meeting

The topic of "Oil Risks" was the basis for a very interesting talk by Mr. W. F. Zielenske that was given to the Fire Protection Engineering Society last Friday. Mr. Zielenske is an engineer for Marsh and McLennan, and is an authority on the subject. He gave a talk before the society about five years ago on the same subject, but the hazards have changed so much that there was very little that was not new.

After giving a brief summary of the history of the oil industry, the speaker proceeded to trace the whole setup of the modern refining system from the oil field to the finished product. The hazards that are encountered in each step were described and the protective measures that are taken were listed. Many of the processes that were discussed have been invented in the last few years, and were of considerable interest to all of those present.

From the description of the oil fields and refineries, it would appear that there is work for civil, mechanical, and electrical engineers along with the fire protects. Many of the hazards that are found are due to electric and gasoline engines, and their solutions are questions for the juicer or mech. Since such elaborate precautions must be taken in this industry, there are many unique solutions. The use of so many special devices calls for a highly trained man.

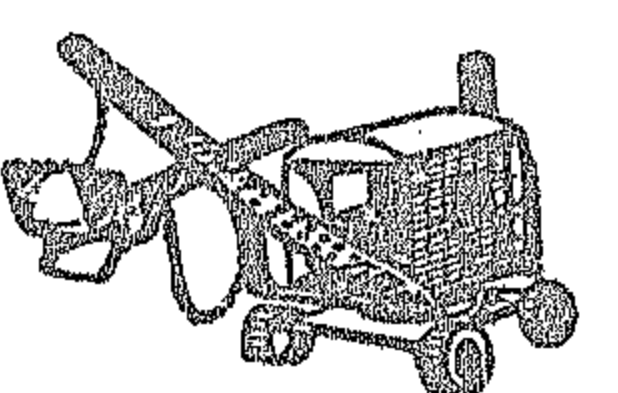
In the refineries themselves the problems that are important to the chemicals come into play. The methods for the recovery of the gasoline from the crude oil have been well developed at present, but there are still many problems that are not solved.

The hazards that arise in a refinery proper are due in a large part to the huge quantities of highly volatile products that are made. The hazard of lightning is one of the most bothersome. A very careful system has been set up in many plants to practically eliminate this danger, but a constant watch is kept.

The possibility of fire originating from static electricity has come in for much close scrutiny in recent years. The use of chains on trucks in order to provide a ground is a familiar example.

Mr. Zielenske also described the

Steam Shovel



Judging by the following letter, two sophomores evidently no longer feel the urge to prolong their ignoble lives. The sophs are Natinchek and Norkus. The letter reads:

"We, Natinchek and Norkus, hereby challenge any twenty freshmen (ten apiece) to do battle during the forthcoming freshman-sophomore rush during JUNIOR WEEK. Yea! Your freshies are sissies."

(signed)
 Natinchek & Norkus.

To defend his honor, Benny, ("I'll be-a-tailor's-son-or-bust,") Kirz, recently maintained "The two pants suit is here to stay."

Bob Mead discovered last Friday night, when he bent over to make a snow ball, that Chicago is a windy city after all. In fact, the open seam in the seat of his pants proved quite a spectacle at the Tech News smoker. Yoo-hoo, Bobby.

It's bad enough to write love letters to a sweetheart at Lake Forest college during physics lecture but Earl Anderson outdoes himself by putting on as a return address "E. A. 3300 Federal St." Did you get it back 'Andy'?

company fire departments that are kept at all large plants. The use of foam is a necessity in the putting out of oil fires, and for that reason there are also large tanks of foam materials at several places on the refinery grounds. The extensive use of auxiliary equipment for double protection was also stressed. Since the gas hazards are among the most important, great care is used whenever there are gaseous materials. The ability of fire to travel in a gas is of prime consideration in the design of the equipment for the control of such hazards.

In closing his speech Mr. Zielenske told of some of the freak things that have occurred while he has been engaged in the oil inspection line. Among these were explosions caused by the presence of iron, and examples of traveling fire.

Fraternity Notes

By DOUGLAS MACDONALD
 All fraternity notes must be received by the fraternity editor before noon Thursday in order to appear in the next issue.

PHI PI PHI

The chapter wishes to congratulate Brothers Vandekieft and Deuter for being pledged to Honor A, honorary athletic fraternity. For the second consecutive year the bowling team has won the interfraternity bowling contest. The team consists of Molitor, Muehlhausen, Vandekieft, and Deuter. The ping-pong team lost to Pi Kappa Phi last week. The men wish to congratulate the Pi Kap's team for their victory and fine sportsmanship throughout the game. Last Saturday evening the Chapter held a somewhat unexpected dance. The reason for the dance is tied up with Bill Plengey's inability to keep a girl long enough to have her attend one of the regular dances. When the lads discovered that Bill again had a girl the dance was given immediately in the hope of furthering Bill's cause.

THETA XI

Our congratulations to Phi Kappa Sigma on their recent ping-pong victory. We hope to do better when we meet again this week.

RHO DELTA RHO

Officers were elected last Friday night. The men elected were:
 Edward Morris President
 Louis Jacobs Vice-President
 Robert Jaffee Treasurer
 Sam Spencer Social Chairman
 Sidney Silverman Rec. Secretary
 Leon Evstein Corr. Secretary
 Harvey Rothenberg Sgt.-at-Arms
 Brother Sid Kreiman, our retiring president, received a standing vote of thanks from the members for an excellent job well done. Congratulations to brother Harv Rothenberg on his pledging to Honor A.

DELTA TAU DELTA

Election of officers was held last Tuesday, and the following men were chosen to head the chapter.
 Bernard Bernstrom President
 William Horton Vice-President
 Richard Street Recording Secretary
 Donald Sunde Corr. Secretary
 Bill Scherer Sergeant-at-Arms
 John Fox Messenger
 A vote of thanks was given the retiring officers, especially Bill Laise, who has been our president during the last two years. The Exciter, our chapter newspaper, came out in a swell new issue last week. We also had a house dance last Saturday and a sizzling time was had by all.

TRIANGLE

The Armour Chapter of Triangle is pleased to announce the pledging of:
 Robert C. Ericson, Co-op '42
 Arthur W. Duree, Co-op '42
 Brother Ed. Smith, '34, of Marion, Ohio, dropped in last week and spent a couple of pleasant days with us. Last Saturday evening we held a rather informal dance in honor of one of the brethren who has, in the past, shown a disinclination to attend the parties given. Brother S., it seems, does not like the girls. On this occasion he was present, intending to complete a drawing plate which was due shortly. That he did not finish it was due entirely to the insistence of a certain group of young ladies who demanded that he join the party. Ed was reluctant to do this and some argument ensued. It was all in a spirit of levity, though, and everyone had a jolly time (except the poor, industrious freshman). N. B. the brother has become partially converted and threatens libel action if this is printed—really, Ed, is that nice?

PI KAPPA PHI

Alpha Phi chapter takes pleasure in announcing the pledging of:
 John Brubaker, Co-op '43
 Merle Dargel, Co-op '43
 Cecil F. Gullett, Co-op '43
 Edgar L. Weaver, Co-op '42

Enzymes Discussed At A.I.Ch.E. Meeting

I. I. Kirland, Ch.E. '40 in his presentation of "The Role of the Enzyme in the Production of Alcohol," before the A.I.Ch.E. last Friday, introduced the idea that the enzyme has many forms and purposes; and that it is now being used extensively as an organic catalyst in many biochemical reactions.

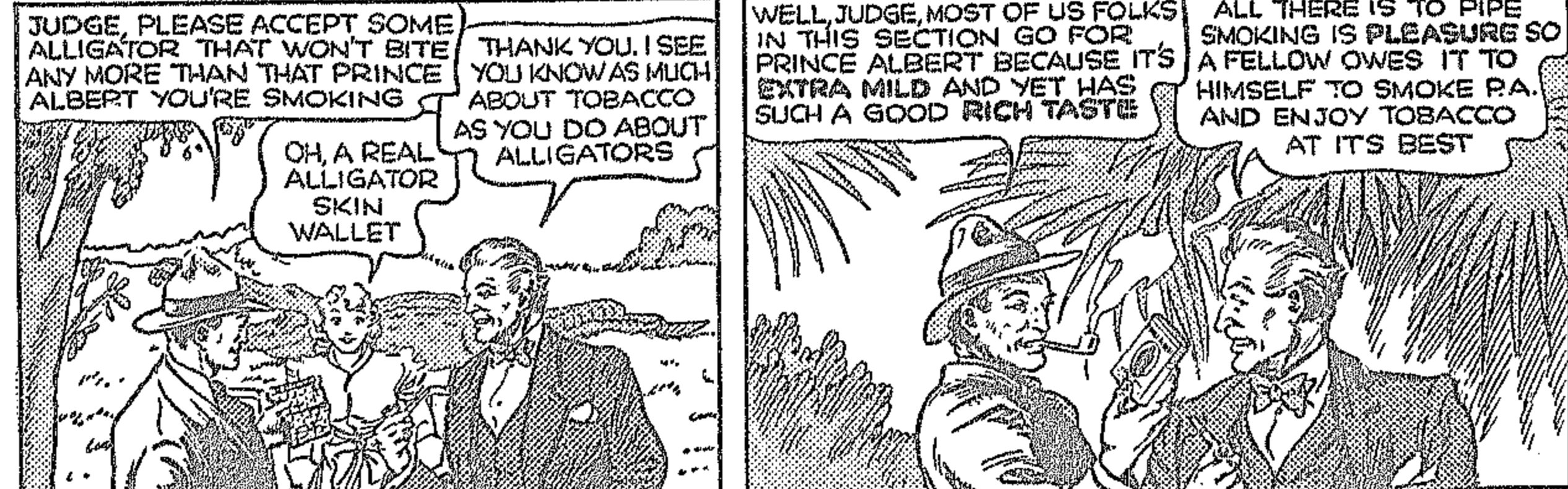
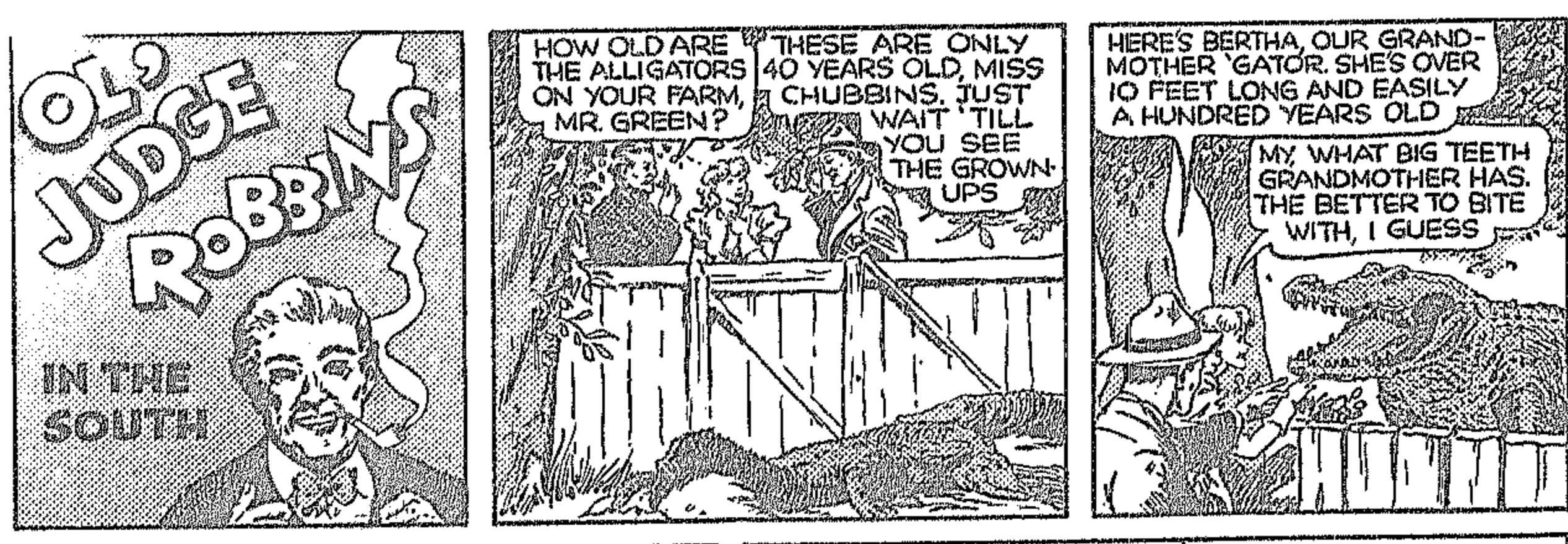
The enzymes emphasized were those used in the production of alcohol, primarily, the yeast enzymes. Many different enzymes are present in yeast, each doing a specific part of the conversion of a complex sugar into a simple sugar, and thence into an alcohol. That the yeast, though furnishing the enzymes, takes no part in the reaction has been demonstrated by separating the enzyme from yeast cells, the former still producing the same reaction.

The importance of the enzymes in life as well as industry is indicated by some of the speaker's closing words, "As far as can be told the chemical properties of a substance in living matter are identical with their properties as obtained in the laboratory. The characteristic of substances in living matter is change, and change in a certain definite way. Enzymes are derived from living matter and they induce changes in definite directions in substances of more or less complex nature. It does not require a stretch of the imagination to consider enzymes the essential feature of living matter—since living involves chemical changes in certain directions."

The ping-pong team entered the final bracket by winning their match last Monday. The team is now practicing harder than ever since another victory will mean the cup.

Congratulations to Brother Paul Hoffman on his pledging to Salamander.

Ditto to Brother Winblad for getting the highest line of the bowling tournament.



YOU CAN ALWAYS COUNT ON PRINCE ALBERT TO SMOKE EXTRA-MILD, COOL, AND MELLOW IN ANY SORT OF PIPE

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 Co., Winston-Salem, North Carolina
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PRINCE ALBERT THE NATIONAL JOY SMOKE

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

Techawks Fight Maroons Thursday On Midway; Trackmen Face Beloit

Armour to Protect Eight Win Streak

Weather Biggest Fear Of Champions

With both coach and players praying for a break in the weather, the Armour baseball team is taking what few means it can to keep in shape for their coming game with the University of Chicago. Unless they are able to get some batting practice in some way or other, the team will enter this game in the same fix as they did last year.

The game will be played on the Maroons' field at Sixtieth and Greenwood Avenue this Thursday afternoon. Originally scheduled for Friday, the game was moved up to Thursday on the suggestion of Coach Stenger.

Chicago Squad a Mystery

Last year the Maroons beat the Institute twice due to the fact that the Techawks weren't as yet timing the ball properly. As a result they were only able to score one run in each game while the Maroons countered four times in the first battle and twice in the second. However this year the Techawks have a winning streak to protect and their determination to increase this run may be enough to overcome the handicap of lack of batting practice.

What opposition will be offered for the Techawks this year cannot be stated at this time as the Midway coach will be displaying a whole new team except on the mound and at third base. As described by Coach Andersen in a recent radio interview, "the boys this year are very inexperienced but are willing and eager to learn."

Amundsen May Hurl

The only regulars of note that are returning to bolster the rookies are Jerry Sivesind and Paul Amundsen. The former, a third baseman, has just been elected captain to succeed French White Jr. who has joined the St. Paul Saints to play professionally. Jerry formerly played the hot corner for Englewood High School and was mentioned on several all-city teams.

In Paul Amundsen, who the Techawks will remember from basketball experience, the Maroons have one of the tallest hurlers in the Western Conference. His six feet six inches make him appear mighty big on the mound and with this advantage he has been very successful in fooling the opposition.

Amundsen pitched the second game against the Institute last year and although he walked three and allowed...

Eight Men Qualify in First Golf Round

Hampered by bone-chilling coldness and dampness, the annual spring golf tournament got off to a slow start last Saturday at the Evergreen golf links. Of the twenty men that braved the inclement weather to shoot eighteen holes, eight qualified, top honors going to A. W. Gilbert who shot an 88.

All of the scores were consistently higher than usual because of the ten stroke handicap placed on the contestants by the Master of all golfers—ol' Man Weather. Low five of the eight men who swept the Armour open's first round, were Gilbert, Richie May, John Fox, Ralph Schmall, and Don Mackey.

If the snow that now covers most of the links is melted when Saturday rolls around, the eight qualifiers will play at Cog Hill. The four golfers with the lowest scores for the first nine will continue in order to eliminate two more. The remaining two will then hold a private eighteen hole battle between themselves to decide the champion, all 36 being played the same day. Both men, however, will become members of Sammy Bibb's troupe, joining the regulars, captain Twick Davidson, Carl Malmeldt, and Don Sunde. Although this is a tournament, all who can wield a golf stick will be there to join the rest of the divot-diggers and participate in the fun-making.

Outdoor Track Opens At Stagg Field Saturday

Under its first severe test of the outdoor track season, the local cinder squad will open against Beloit's Goldenmen at Stagg Field Saturday afternoon. Although the Goldenmen defeated Tech 62 2/3 to 54 1/3 last year, the Techawk winning combinations should ease ahead of the new Beloit squad.

Last year's conflict found the Tech team fighting strong, cold winds on a puddled field. The consistent placing of Beloit men in the second and third positions in the events was enough to put the Goldenmen out ahead at the final score.

The Armour trackmen should score a victory in their meet Saturday inasmuch as the team is composed of not only individual stars but also crack relay teams. At the recent Illinois Relays, the two-mile relay team of Ryan, Deuter, Finnegan and Platz placed third in the college event. Facing stiff competition, Armour's relay team placed again in the relays when the medley team of Dunbar, Deuter, Finnegan and Platz placed fourth in that event.

TENNIS SCHEDULE

- April 21 Chicago Normal, here.
- April 26 Loyola, there.
- April 29 Chicago "B" Team, there.
- May 3 Wheaton, there.
- May 5 St. Viator College, here.
- May 7 Indiana State Teachers, here.
- May 10 George Williams, there.
- May 11 St. Viator College, there.
- May 12 Indiana State Teachers, there.
- May 14 Purdue, here.
- May 17 Wheaton, there.
- May 19 Illinois Wesleyan, here.
- May 20 Loyola, here.
- May 24 North Central, there.

Tennis Schedule Includes Purdue

Well Rounded Courtmen Have Full Bill

With Purdue, Chicago, St. Viator, and Indiana State appearing on their schedule, the tennis team is in for plenty of competition this coming season.

During JUNIOR WEEK the racketeers will don their seven league boots and invade southern Illinois to take on St. Viator's. A sneak across the border into Indiana will then plant them on the courts of Indiana State Teachers. Purdue will be met on the home courts while Chicago "B" will be met on the Midway courts.

Last year the lads showed commendable fight over their opponents to win five times in nine tries, tying one of the other four. Techmen on the court will be all of last year's team except Boehme and Herz. Ed Swanson, Nick Natinechek, Joe Kubik, Ralph Wagner, and Don Charlton will form the nucleus of this year's team.

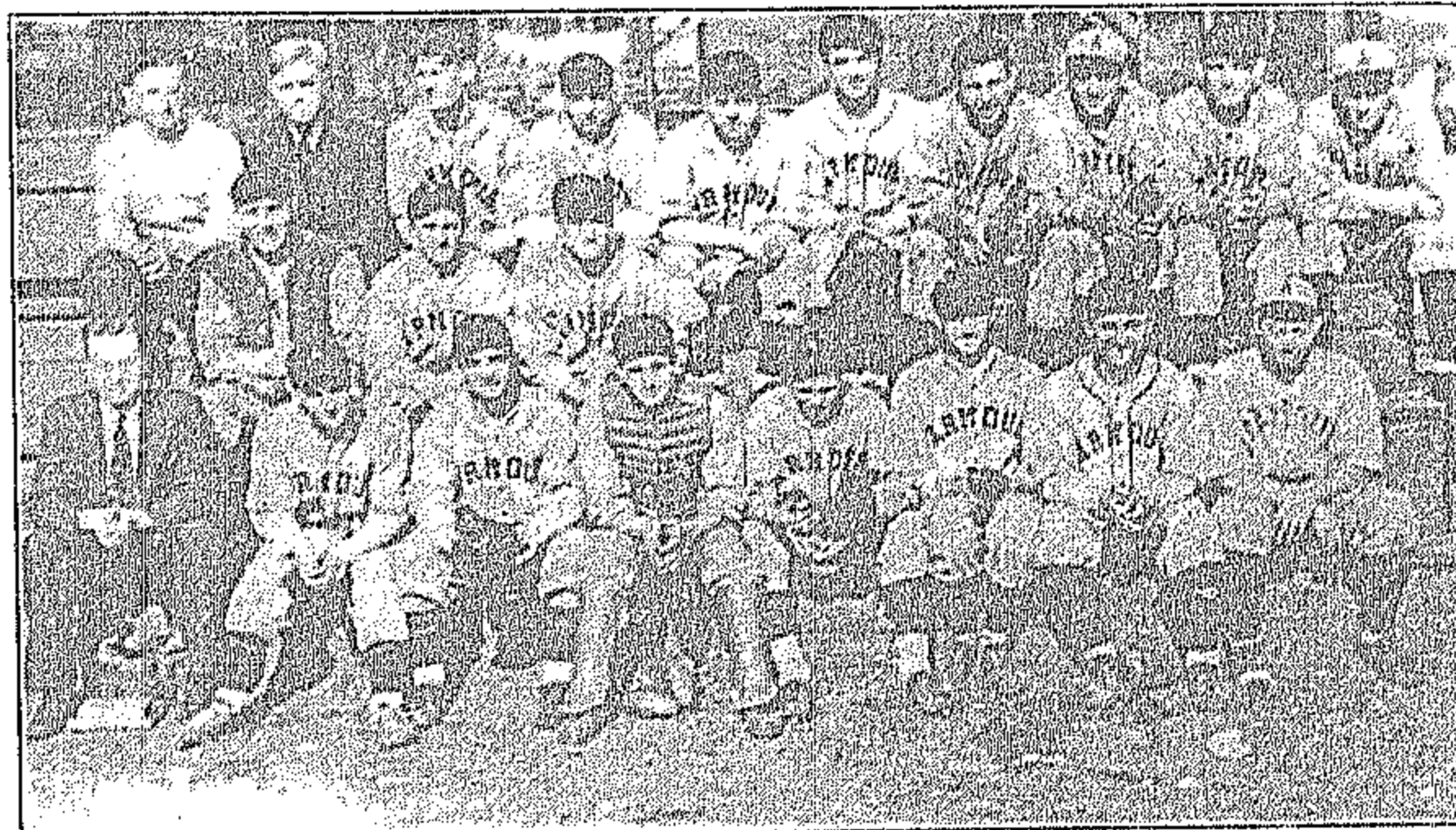
In the singles competition Ed Swanson, Nick Natinechek, and Joe Kubik boasted a season's record of six wins in nine matches. Ralph Wagner had the best season's average by winning four out of five of his matches. Kubik came through with four straight wins before bowing to Khadder of Illinois Wesleyan. Wagner in his lone defeat of the season suffered at the hands of Kent of Wheaton forced his opponent to play 24 games in the first set before Kent finally won, 11-13.

Natinechek and Boehme were the season's best double combination winning five out of their six matches. Swanson and Kubik enjoyed a fair degree of success by winning four out of seven in the doubles. Loyola were the only doubles combination that was strong enough to stop Nat-



When Snow White came to the Palace for its seven week run, we didn't expect her to stay on our hands seven months. But it looks as if she'll be in the Chicago area for seven years and it will take more than Seven Dwarfs to clear away Ogden Field. Tech's only consolation...

N. I. C. CHAMPIONS OPEN SEASON



Top row—Berger, Foresberg, Mucleski, Skeppstrom, Bacci '37, Shewchuck '37, Kruse, Tullgren, co-Captain Wagner, Penn. Center Row—Coach Kraft, Poczcha, Rodkin. Front row—James, Roche, Lugullo '37, co-Captain Seidenberg, Dunne, Green, Gebel, Rehwald.

tion is that various adversaries are in the same fix, and the Techawks were in training at least once this season anyway.

The greatest worry right now is that of no Chicago game. Armour can well boast of a good team this year, as is evidenced partially by the difficulty she had in maintaining her one Big Ten game. Chicago is decidedly weakened, and although Tech has no desires to have its best team in years, face a less than normal Midway squad—normally strong in

inches and Boehme. The season's competition showed a record of 25 victories against 16 defeats in the singles and 10 wins against 8 losses in the doubles.

the Big Ten, she still wants that victory better than no game at all. Also she is anxious for a first victory over the Maroons since 1934, when the A.I.T. diamonders won 7-3.

But from the aspect of last Saturday's Winter Wonderland, this one of the few heavy games is likely to fall through. For if the game is called off later than Friday, it won't be played. This is why Coach Stenger made the smart move of advancing the date of play to Thursday, giving them one day of leeway. Although this will not help the snow situation, it may prove advantageous

Forecaster Sees Senior Chems as Softball Champs

By Jim Fahey (Captain of the "Frosh" Meteors)

With the inauguration of the softball tournament further in the offing due to the weather of late, one finds it ideal to sit around the hot stove and cast predictions back and forth. Not wishing to be out of things we'll add ours to the opinions already going about.

In the upper bracket, a serious situation exists in that four teams have excellent chances of finishing on top. The senior mechanicals, champs of the upperclassmen last year, are destined for a tumble. Without the bat of Irv Seidenberg, who will devote all his time to the baseball team, the mechs have little power at the plate. If they repeat again this year in the upper bracket, it will be because of Bill O'Brien's pitching, and nothing else.

The team that will succeed the mechs are the senior chemicals. Boasting the murderer's row of Wagner, Dunne, Greene and Bodnar the chems look mighty good at the plate. On top of this they have a fine pitcher in Bob Marshall. His twirling combined with that hitting should win the title for these boys. The other two teams are the senior elects and the junior chems. Both teams will be up there and with a few "breaks" either team might win.

In the lower bracket, the Soph Chems and the Soph Mechs will battle it out, (Continued on page four)

There never was a rosier glow cast across the sky of Armour's athletic future than there is now from the present interseasonal point of vantage. The baseball men are sure to deserve watching, the trackmen are second only to North Central in this area, while the Tennis squad has worked up one of the best schedules of classy competition. Also the latter with experienced Swanson, Natinechek, captain Kubik, and Wagner will stand a good chance of bettering last year's .625 in meets.

We bring back the usual problem at this point—namely, the worn out desire for "school spirit." This vex-

ation isn't common to Armour alone. The term arises at pep meetings of every school and receives special emphasis after every strenuous losing streak. Students often say that if the team could win a game, the former would come out.

But Armour isn't having any losing streaks this season, and if there ever is to be a time for school spirit at Armour, that time has finally arrived. When the ballmen rampage over Chicago this week, don't let yourself be sorry you missed—just be there!

Joe DiMaggio

has something to say about how different cigarettes can be!

"How about it, Joe, do you find that Camels are different from other cigarettes?"

"Any all-cigarettes-are-alike talk doesn't jibe with my experience. There's a big difference. I've smoked Camels steadily for 5 years, and found that Camel is the cigarette that agrees with me, in a lot of ways. Good taste. Mildness. Easy on the throat. And Camels don't give me jumpy nerves. Like a lot of people I know, I'd walk a mile for a Camel!"

BILL GRAHAM, seeing Joe DiMaggio pull out Camels, asked his opinion on smoking. Joe answered: "There's a big difference between Camels and others." You, too, will find in Camels a matchless blend of finer, more expensive tobaccos—Turkish and Domestic.

"TOBACCO GROWERS FAVOR CAMELS FOR THEIR SMOKING!"

— is the majority opinion in a survey of successful, well-known tobacco planters

"When Camel says 'costlier tobaccos' I know it's right," says Mr. Edward Estes, capable young planter, who knows tobacco from the ground up because he grows it. "Take my last crop, for instance. Camel bought all the best parts—paid me the most I've ever gotten. The men who grow tobacco know what to smoke—Camels!"

"Last year I had the dandiest crop ever," says Mr. Roy Jones, another experienced planter who prefers Camels. "I smoke Camels because I know they bid higher and pay more at the auctions for the choice lots of leaf tobacco. They paid the highest price I ever got from anybody. Considering that Camel uses finer, costlier tobaccos, it's not surprising that Camel is the leading cigarette with us planters."

PEOPLE DO APPRECIATE THE COSTLIER TOBACCOS IN CAMELS

THEY ARE THE LARGEST-SELLING CIGARETTE IN AMERICA

Camels are a matchless blend of finer, MORE EXPENSIVE TOBACCOS—Turkish and Domestic

On the air Mondays: E-D-D-I-E C-A-N-T-O-R America's great fun-maker and personality brought to you by Camel cigarettes. Every Monday at 7:30 pm E. S. T., 6:30 pm C. S. T., 8:30 pm M. S. T., and 7:30 pm P. S. T., over Columbia Network.

On the air Tuesdays: BENNY GOODMAN THE "KING OF SWING" Hear the great Goodman Swing Band "go to town." Every Tuesday at this new time—9:30 pm E. S. T., 8:30 pm C. S. T., 7:30 pm M. S. T., and 6:30 pm P. S. T., over Columbia Network.

ONE SMOKER TELLS ANOTHER "Camels agree with me"

Mr. Harold Craig, too, bases his preference for Camels on what he knows about the kinds of tobaccos that go into the various cigarettes. "I get the check—so I know that Camels use more expensive tobaccos. Camel got the best of my last crop. That holds true with most planters I know, too. You bet I smoke Camels."

Dr. Vincent Stresses Vital Need for Correct Thinking

In one of the most dramatic speeches to be presented by a guest of the student body of Armour, Dr. G. Vincent, one of the best known educators of the country received prolonged applause from a capacity audience at the general assembly last Tuesday. The energetic manner of presentation certainly did not reflect a man of 74; on the other hand his sagacity and wisdom and even the strategy used in the presentation reflects experience that may well be considered difficult for men of longer years to have acquired.

Dr. Vincent's speech was formally entitled, "As Others See Us," but it is obvious that Dr. Vincent merely used the nominal topic as a basis for emphasizing his far more important point, as he stressed it, to "think calmly—reason intellectually—not emotionally." Dr. Vincent himself combined an emotional appeal—the very thing that he cautioned others to regard apprehensively—with such seriousness when clinching a point that his intense sincerity was immediately obvious and carried with merited applause. Yet, by the combination of his humorous build-up to his educational facts, he is exceedingly clever in driving home his point more forcefully than could probably be done otherwise. His emotional appeal, if his humor can be analyzed as such, has ultimate justification in that the facts presented remain facts no matter how analyzed. Its immediate justification is that his humorously emotional appeal is a superior method of gaining interest when cleverly executed as was ably done by Dr. Vincent.

Typical of his characteristic humor is his analysis of the appeal of emotional speech which is intended to influence without recourse to rea-

son. In a choice of words which is suggestive of subtle humor in the first sentence and obvious humor in the second sentence, Dr. Vincent said: "Jumping to conclusions is one of the most exhilarating feats of mental gymnastics. . . . Most of our college graduates are like vintage wine—they're corked!"

Beside the appeal to think rationally Dr. Vincent stressed the desirability of defining terms. By doing this, he said, the "area of discussion will be limited to a large degree," thereby preventing misinterpretations. He appealed to the students to be tolerant. "Tolerance in these days," he said, "has come to mean indifference."

Carrying out the idea that others may see our country in a different light which does not reflect our true characteristics, he pointed out that among the items from America that appeared in a certain newspaper of India were the following which were printed because they seemed characteristic of this country. They were an account of the number of bank failures in this country, information about Al Capone—the typical American figure as they put it, and the increased facilities for divorce in Reno. These points lead up to the discussion of the value of proper thinking in detecting the possibilities of these items being misrepresentative if interpreted literally.

Dr. Vincent was introduced to the audience by Professor John Schommer who was a student at the U. of C. when Dr. Vincent was the Dean.

Dr. Vincent's appearance was arranged by the Institute in line with its policy of bringing before the student body, from time to time, nationally known figures in their respective fields.

"Models" Topic at W.S.E. Meeting

The Structural Division of the Western Society of Engineers held a quarterly meeting here at Armour Tech, April 4, in D Mission. In a program arranged by Dean Heald, four papers were presented on the subject "Use of Models in Structural Engineering."

Dr. Grinter presented the paper "Misconceptions of the Usefulness of Models." Prof. Dohrenwend's paper was "Use of Photoelasticity in Structural Analysis." He used a miniature polariscope in his demonstration, and passed polarized light through transparent bakelite. A rainbow color is produced and the color can be interpreted as number or kind of flaws. "Model Studies in Soil Mechanics" was the presentation of Prof. Herbert Ensz, who used a model to investigate the pressure on retaining walls. Prof. Stevens presented a paper on "Model Analysis with Beggs Deformeter," which is applied to arch analysis.

After the presentation of the papers, the large group of engineers inspected the new Civil Laboratories

Techawks-Maroons

(Continued from page three)

lowed six hits, he held the Techawks to one run. In accomplishing this, he also sent five men down on strikes. This year according to Coach Anderson, Paul has improved immensely and is due to be one of the best in the Big Ten.

Because of the fact that most of the ballmen are newcomers and that anyone might start, it is impossible to name the starting lineup for the Maroons. The same holds for the Techawks since the battle for the outfield posts has been by no means settled. However it is certain that the infield of Green, Dunne, Wagner, and Gebel will start in addition to Seidenberg behind the plate. Both Willie Kruse and Patsy Pacocha will see mound duty as might Alex Yursis, new rookie for the Hawks, depending upon the trend of the game.

and were shown load tests on two 12 by 12 foot concrete floor panels. Students will be inspecting the elaborate display of materials for building construction in the basement of Chapin Hall.

Soph Chems in Lead; O'Brien's 243 Highest

One team already has practically clinched a position in the bowling finals. The soph chems who were first of four teams to finish their schedule last week, have rolled up enough points to secure this place despite the fact that more scores will be in this week.

At present the chems head the list more or less because of the 2452 series they bowled last Friday. This coupled with their former total of 4586 gave them a score of 7038 for the tournament play. The team, composed of Carpenter, Natinchek, Cultra, Grigas, and Pincus, has been fairly consistent throughout the tourney and will enter the finals as the favorite.

The other outstanding feature of the week was the crowning of a new individual scoring king when "Wild Bill" O'Brien of the senior mechs supplanted Winblad, the former holder of the mark which was 231. Bill dropped a total of 243 pins to take the crown. Despite his high score, the team bowled only 2231

Forecaster Sees—

(Continued from page three)

providing the freshmen don't pull another one like they did last year. Since no one has seen them play yet, there is no opinion about them that can be expressed.

The Soph Mechs look the stronger of the two teams in that they have a couple of fence busters who, if they co-operate with the steady hitting of Pacocha and Wolniak, will not only win their bracket but the school championship as well.

The chems will have to rely upon their fielding with powerful batting by three or four members of the team. This team is practically the same as last year when it sprang an upset while playing under the title of "Frosh" Meteors. These are the known teams of the tournament but then—a "dark horse" scored last year.

and it appears that they will be eliminated. They now need a 2500 series to make the finals. If they should be eliminated, the tournament will lose its most colorful figure as well as its high scorer.

News Smoker—

(Continued from page one)

were enthusiastically greeted by the men, most of whom had worked with them last year.

Russell Kotal, present editor-in-chief, acted as host and master of ceremonies.

Speech making was of course soon in order. Professor Hendricks was introduced. He modestly heaped praise on the work of Hommes for his initiative in publishing the first issue. He said it was called crust in those days but whatever it was, he gave John the credit for having it and left nothing unsaid that could possibly make anyone fail to see Professor Hendricks' sincere appreciation of the first editor's work.

Staff Doesn't Worry Hendricks?

In turn, when Hommes spoke he also modestly praised Professor Hendricks, saying: "It was he that gave us the confidence and somehow we believed it could be done. It couldn't have been done if he hadn't had the faith in us." Reminiscing of the problems connected with the first publications, John said of Professor Hendricks: "It looks like you fellows don't worry him now. He looks younger than he used to then. He was an old man when we worked for him!"

The difficulty of regular publication even as late as in '32 was expressed by Mr. Rudolf, who told how his preceding editor, F. Attwood, bragged with pride that the News came out every week.

Sheehan Movie Commentator

The smoker got under way at 8:30 with a general get-together. Cigars and cigarettes were passed about freely. The general atmosphere was gay. Everyone seemed to be either talking, greeting, laughing, or welcoming at once.

Several short movies were featured during the evening. Jim Sheehan had an auxiliary microphone concealed about him so that he could break into the regular film conversation. It was discovered that his subtle humor is very effectively concealed in the innocent countenance he bears with him on other occasions.

Robert Kohn and John Hommes received first and second prizes respectively in a contest of guessing the number of matches in a quart glass jar. Some of the engineers were off by as much as 200 per cent in their guesses. First prize was an ash tray, second prize—a blue necktie.

B-Unit of Bedeau System Explained

Arthur Rice M.E. '36 of the Michie Printing Press and Manufacturing Company, gave an elementary explanation of the "Bedeau System of Rate Schedules." Friday, April 8 in Science Hall. Explaining the system as a method of measuring the production of human labor, he pointed out the difference between the system and the ordinary time study cycle. With the Bedeau system the employee is credited with the work he actually does. Thus if an employee is operating an automatic machine requiring little attention he is credited with only the work he does when it requires attention.

The Bedeau system standard is a B unit, which corresponds to the standard work done by an average workman in a minute. Each job is examined and a B rating is applied to it. The employee is credited with the work he does in B units. The number of B's above the amount considered normal is calculated and the worker is rewarded by the payment of a bonus in addition to his guaranteed hourly wage. Thus a wage incentive is used to urge the workers to greater efficiency. If the production of a worker falls below the normal a check is made and the fault corrected. Thus a check on the efficiency of the organization is known at all times.

Because of the need for rest due to fatigue, a certain allowance is made for rest periods. The amount of time allowed is dependent upon the type of work performed. Thus a man shoveling coal would receive a larger rest allowance than a man merely pushing a lever.

The rating of each job is done by observing the number of elements in each job and noting the time required for each element. Each job is classified into operations such as loading, adjusting, securing, tool adjustment, machining, oiling, filing and inspection. All these details along with the instructions for use are filed and are used as the authority and guide for adjustments etc. of the machine.

At the next meeting officers for the coming year will be elected. H. N. Davis, National President of the A.S.M.E. will visit Armour Friday, April 22.

..out for more pleasure

Step right up and ask for Chesterfields . . . they'll give you more pleasure than any cigarette you ever smoked

Chesterfield the PLEASURE cigarette

They Satisfy