



SIDELINES

By Leroy Beckman

PERHAPS blunt personality has never met with such reception publicly as has that of Huey Long. We say blunt because we mean blunt. A mass of jumbled ideals sent crashing through the seeming dense minds of an unsuspecting Louisiana public, propelled by an unusual personality, has been fuel for fire on the part of many of the nation's publications. In many instances the press has labeled him as a menace to democracy. Interviewers have insinuated that he certainly has no breeding, and no respect for it. As one writer put it, "whether profanity is ordinarily a signal of contempt for manners or merely a substitute for better-expressed emphasis, it is both for Huey. His profanity is not imaginative or colorful; it is just ordinary vulgar cussing." Let these individuals rave—they are merely completing the portrait that some people admire—in Louisiana.

THE SPIRIT of resentment evident in his ceaseless ambition for power marks Huey Long as the product of a humiliating and harsh childhood. One of nine children in a poor village family, son of a farmer who forced him to work long hours on the farm, he submits in his autobiography: "Rising before the sun we toiled until dark, after which we did nothing except eat supper, listen to the whippoorwills, and go to bed. My every sympathy has gone out to those who toil." Every Sunday he had to go to Sunday school, Church, young peoples' meeting, and church again. He learned his Bible thoroughly, and recently said publicly that science had not succeeded in refuting a statement in it.

HUEY LONG was a rebellious boy. At the age of sixteen, when it was made clear he could not be sent to college, he got a job as salesman and traveled through the district sponsoring baking contests to advertise a lard substitute. A year later he had five months' law study at the University of Oklahoma. In another year of salesmanship he accumulated a few hundred dollars and entered Tulane law school, determined to finish the course in a year. He studied day and night until he became as thin as a skeleton, but he passed his bar examination at twenty-one. Those familiar factors in many American lives—poverty, ambition to push on, the want of privileges—have burned the soul of Huey Long. He is determined to penalize those who possessed while he suffered from want. It's Huey, a "hard man" now.

HE MAY BE uneducated and without culture today, but we stand to say he's intelligent—in his way of course. There may be many polished lawyers in this country, but there are few with more talent. He has that disregard for consequences in all his undertakings—he means to complete the job. How he completes his job remains to be seen. Of course, a "lot of wind" won't help the job—but it may help Huey.

Alumni in Detroit to Hear John Schommer

Professor John J. Schommer, noted for his interest in Armour activities, will be in Detroit tonight to speak at the banquet given by the Detroit branch of the Armour alumni. This meeting will be attended by alumni from all parts of the state of Michigan. The banquet was organized under the auspices of Harold S. Ellington, noted architect.

Professor Schommer will present a talk concerning past and present activities of those connected with Armour Institute, together with various other phases of Armour activity, in order that those attending, might be kept in touch with conditions at Armour.

Give Scholarships to Five Students

All Winners from Chicago High Schools

Five of the number of new students who will enter the freshman class next February will be awarded scholarships, giving them one year of an engineering education at Armour.

On Saturday, January 12, fifty-three students, representing high schools in the vicinity of Chicago and several from outside the state of Illinois took the scholarship examinations which were to provide five of them with tuition for the second semester of the academic year 1934-35 and the first semester of the academic year 1935-36.

Addressed by Mr. Hotchkiss

The students who took the examinations were addressed by President Hotchkiss before the examinations and were later entertained at the Students Union. The following students have been selected as the scholarship winners.

Carl F. Huboi

Roosevelt High School, Chicago

Stanley John Johnson

Senn High School, Chicago

Robert Earl Loeck

Tilden High School, Chicago

Leo B. Poskonka

Lane Technical High School, Chicago

David Shideler

Austin High School, Chicago

Alternates Also Chosen

The following have been selected as alternates:

Robert Kane Hirschert

Lane High School

Edwin H. Nieman

Austin High School, Chicago

Robert George Robitschek

Kelvin Park High School, Chicago

Norman F. Svendsen

Denby High School

Detroit, Michigan

George Henry Thomas

Thomas Jefferson High School

Council Bluffs, Iowa

Many Factors Considered

Courses have been arranged at the Institute so that the successful scholarship winners and others entering in February, 1935, can, by attending the Summer Session immediately following, enter the sophomore year at the beginning of the academic year, 1935-36, and complete the requirements for graduation in June, 1938.

The scholarships are offered to those students receiving the highest rating from the Institute's scholarship committee. The rating is based on the student's competitive examination, on a consideration of his personality, his scholastic record in high school, the extra-curricular activities participated in during his high school training, and on his general fitness.

Cycle Pictures Must be Taken by Feb. 1

"Seniors, if you wish your pictures to appear in the Cycle, do not fail to have them taken at Marshall Photographers Inc. before February 1." This is the warning of George Wheaton, editor-in-chief of the yearbook. All others who must also have their pictures taken should do so at the scheduled time.

Appointments can be made by calling the studio, which is open from 9:30 a. m. until 6 p. m. For the price list, other related details, and schedule see the notices on the bulletin board.

Music Clubs Present Concert in Evanston

Last Friday evening the Armour Tech Musical Clubs gave their first concert for the National College of Education in Evanston. The concert which filled the first half of the evening, included several encore numbers, two of which were Girls! Girls!! Girls!!! and "Student Logic."

HOTCHKISS HEARD IN DISCUSSION OF ADULT EDUCATION

Tells of Armour's Plans to Meet New Needs

SPEAKS OVER WENR

Chicago-land radio listeners were given some up to date information on engineering education last Thursday, when Dr. Hotchkiss, in a conversation with Mr. Fred Atkins Moore, executive director of the Adult Education Council of Chicago, was heard over station WENR.

In answer to questions put by Mr. Moore, Dr. Hotchkiss gave a comprehensive picture of present day trends in engineering education, with particular reference to Armour's experience in dealing with the more modern aspects of the subject. Mr. Moore began by addressing Dr. Hotchkiss as "head of Chicago's leading college of engineering" and ended by assuring him that "Chicago must appreciate the value of Armour Institute of Technology as our one high grade institution of that kind."

Engineering Field Broadened

The general trend of Dr. Hotchkiss's remarks was to show how the fields of both engineering and engineering education have broadened under the complexities of modern life. In particular, he dealt with the matter of adult education, which is becoming ever more important in the engineering field.

Explaining what is meant by a handbook engineer, he stated that modern engineering education "is stressing more and more the importance of thorough grounding in basic science, in contrast to mere technique and ability to use the handbook."

Another tendency is toward broadening the course of study to include social and economic subjects. Many more highly specialized engineering subjects are being eliminated or made elective.

Adult Education Important

Adult education supplies these subjects (Continued on page 3)

Archery Club to Be Formed Here

An innovation in extra-curricular activities will probably be reached when archery becomes established at Armour. The free periods of those students who signed on the bulletin board will be used as a basis for arranging three or four separate group meetings wherein the plans for forming an archery club will be explained. Later the three or four groups will meet together to complete the plans.

Experience is not necessary for those who wish to join. There are some experienced archers at Armour who will instruct the beginners and assist in making the club a success. It is found that several faculty members are interested. To begin with, equipment will have to be furnished by the students, but if enough interest is shown there is a possibility of getting the athletic association to purchase equipment. Anyone further interested in the archery club may see Harold Meyer, '38.

Archery is a sport in which any one can compete. It was first used in colleges as a mild form of exercise for women. Later the bows and arrows were used by men to correct certain physical deficiencies in the upper part of the lungs and shoulders. The sport soon became popular among the students and now there are clubs in many of our high schools and most of our colleges and universities. Neither brawn nor stature are required to be an archer. Nerves are developed as skill is obtained. For target shooting, bows with a pull of 20 to 40 pounds are used. A 35 to 50 pound bow is used for hunting.

Radio Club Gets More Apparatus

Through the efforts of Professor Moreton and Sear the Armour Tech Radio club has secured the entire abandoned third floor at 3329 South Federal street as permanent headquarters.

During the Christmas vacations, the members of the club worked hard to clean and wire these quarters for alternating and direct current light and power. This new location gives the club more facilities to carry on its new extensive program. Since the amateur station license (W9YW) of the club will expire in March, it has become necessary for a representative of the club to secure a new one. Norman Pulliam, president of the club, is selected for this responsibility.

The club has been given, through the influence of Professor Moreton, a 2,000 volt, 2 kilowatt motor-generator set which is to be used as plate power supply for the transmitter. The various other pieces of apparatus were secured by the members themselves.

At the meeting held on January 10, the reorganization of the club resulted in the election of the following licensed operators: N. Pulliam (W9IWR), president, R. Colin (W9CLP) vice president, and V. H. Quayle (W9BIU) secretary and treasurer.

As part of an extensive program the club plans to conduct radio classes for beginners next semester and to participate in the exhibit at the coming Armour Tech Open House.

Players to Give Two One-Act Productions

A twin bill is next on the program of the Armour players; two plays, "The Bear," a one act comedy by Tchekov, and "Dress Reversal," a one act farce by John C. Gerber, will be presented on February 28.

These two plays are guaranteed to give Armourites a good long hour of hilarity. There will be an admission charge of ten cents for the two plays.

The following people comprise the cast of "The Bear":

Elena Miss Martha Naylor
Gregory John Styrsky
Luka John Speropoulos
The cast for "Dress Reversal" follows:

Mrs. Van de Vander.....
Dr. Middlebury..... Albert Schreiber

The Stage Manager and Prompter..... Sidney Kreiman

Miss Van Porter..... Budd Sills

Mr. Peterkins..... Joseph Haase

Coach..... Sydney Miner

Detective Munro..... Joseph Kubert

The Professor..... Herman Ross

It has been undecided who shall take the part of the butler.

New Stone Added to Senior Jewelry List

Since the question of senior jewelry is of importance to the student, many inquiries have been made concerning the stones to be used. Since the time of publication of last week's article the sardonyx stone, a dark red stone, has been added to the list of other stones to be used.

The price of jewelry using this stone will be the same as those using the black onyx namely, \$12.80 for 10 carat gold rings, \$9.00 for the two-tone ring, \$6.50 for the sterling silver ring, and \$5.50 for the 10 carat gold keys.

The substitution of white gold for yellow gold keys may also be had with an additional cost of 75 cents. The reason for this is that, in order to obtain a decent looking key, 14 carat white gold must be used whereas only 10 carat yellow gold was necessary.

In addition to the stone already mentioned there is the blue spinel or the ruby which can be obtained with the ring or key with an additional charge of \$1.25 to the cost of rings and keys using black onyx.

UNDEFEATED NORTH CENTRAL QUINTET TO MEET TECHAWKS ON ARMOUR FLOOR TONIGHT

Pep Rally for Game With Traditional Foe to Be Staged in Assembly Hall at 10:30 This Morning

CLASH PROMISES ACTION, SPEED GALORE

The physics laboratory will be closed for this semester after Saturday, January 26.

All reports to be credited on this semester's work must be in not later than 5 o'clock, Tuesday, January 29.

All members of the business staff of the News are requested to attend a short meeting in the News office at 12:40 next Thursday, January 24.

PROBABLE STARTING LINEUP

Armour Tech.	North Central
Heike	F..... Yuknis
Lauchiskis (c)	F..... Young (c)
Merz	C..... Taumley
Warner	G..... Spiegler
Dollenmaier	G..... Burns

The Techawks, defeated once in seven starts, meet their hereditary foe, North Central, in what should certainly be their acid test today. The Red Demons will hit the home court, at the 108th Engineers' Armory, undefeated in five starts; possibly in six, pending the outcome of the Wheaton game last Saturday.

Pep Assembly This Morning

In anticipation and in preparation for the game this afternoon a pep assembly has been called for this morning at 10:30 in the Assembly Hall.

A display of enthusiasm, pep, and support for the Armour team this morning and again this afternoon at the game will be a big factor in a victory for the Techawks over the Naperville team, so come on you loyal Armourites! Let's go!

The Naperville team, coached by Len Dieber, will bring four-fifths of the team that set down the Armour quintet twice last year, 32-26, and 40-24. From some fifty candidates, Coach Dieber has culled out several men who easily replace the missing Ken Berry, and who provide reserves that threaten even the four wrestlers!

Techawks Ready for Invaders

However formidable the enemy, the Techawks should be ready. In their last game, with Capt. Lauchiskis out on personals in eight minutes, and Al Christoph lost through sickness, the Kraftmen fought down a slow but deliberate Michigan Normal attack to win, 33-25. This game, although still below the par of a team built around the individual power Armour possesses, was farthest removed from the "alumni game" class, of any yet played excepting, possibly, the Maroon game.

Gene Heike led the team in a class demonstration of pivot line work and his hook shots will be needed if the game is to be put away. Pop Warner and Harry Dollenmaier, inseparable and well nigh invincible guards will take care of the home court as they have in every game. Excellent ball handlers, both can be counted to dribble the ball in if the offense can't get the break. As yet their long shots bounce, but the law of averages still holds, so here's hoping! Bill O'Brien and Ellis Doane (Continued on page 4)

Sophs Choose Class Jackets; Order Now

Klee Brothers of Chicago will supply the jackets to be ordered by the sophomore class, it was decided in the balloting last Tuesday. Either lined or unlined, with or without a slide-rule pocket, the jackets are offered in four styles. The type selected is navy blue with the gold insignia of Armour and the class numeral above the pocket.

Orders are to be taken today in the electrical laboratory. The price is \$7.30 for the lined and \$5.85 for the unlined jacket with no extra charge for the slide-rule pocket. No deposit is required and delivery will be made in 7 to 10 days.

The committee chosen by the class president, F. Hackman, is composed as follows: P. M. Martin, chairman; R. J. Magnuson; M. L. Dannis; F. H. Jost; E. C. Hoyer; and H. E. Stehman.

W.S.E. Will Hear Talk on Subway

"If, How, When, and Where of the Chicago Subway" will be the topic under discussion at the Western Society of Engineers meeting Friday morning at 10:30 in the Mission building. Major R. F. Kelker, Jr. will present an informal talk on this subject and will answer questions concerning the proposed subway. As this is the last meeting of the year, a large turnout is expected.

At last week's meeting of the W. S. E. Mr. McEllihiney of the Peerless Pump company gave an interesting and descriptive talk on the water supply of the mid-western states. The geological formation of northern Illinois was explained, especially the significance of the various rock strata. Mr. McEllihiney pointed out that most of the well water in Illinois had its origin in Wisconsin. Surface water filters into the exposed strata of St. Peter and Potsdam sandstone in Wisconsin whence it flows south to Illinois through these sandstone formations.

Various methods of well drilling were also demonstrated by means of slides. If wells are drilled too deep, the waters are likely to be salty and full of dissolved minerals. It was also brought out that well water is nearly always free from contamination.

To Hold Frosh-Soph Dance in February

Members of the freshman and sophomore social committees, under the chairmanships of S. Healy and O. Tomei, are working hard to complete the details of their dance which is to be held February 22 at the Bal Tabarin of the Hotel Sherman.

This dance will be distinctly different from others held by the school. The hotel management has promised that the floor show which is available in the College Inn at the time of the affair will entertain the dancers with their regular program. For the benefit of those who "sit out" a dance or two, tables are being provided.

The orchestra for the occasion has not yet been definitely chosen, but in all probability Harold Stokes will be engaged. This combination of one of Chicago's finest musical groups and one of the best ballrooms in the city will help to make the affair one of the finest in the history of Armour.

Students Will Speak at A.S.M.E. Meeting

Two students will be the speakers at the next meeting of the A. S. M. E. Friday, January 25. They are C. Goldberg, a senior, and A. Lane, a junior. At 10:30 a. m. they will speak in Science hall on "The Autogyro" and "The Overdrive." All who are interested are invited to attend.

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Come on Armour!

This afternoon the Armour Tech basketball team meets a traditional rival, the basketball five from North Central, on the home court in the 108th Engineers' Armory.

Is it necessary that any more be said?

The game is a continuation of a long rivalry in athletic endeavours between the two schools. So far, in the last six years (as far back as the "morgue" of the *News* dates), Armour has been successful only once in defeating the Cardinals from Naperville on the basketball floor. It is high time something was done about such a lamentable situation.

This year, the chances of defeating North Central appear to be very bright. From comparative scores of games with teams which both the Techawks and Naperville have played, the indication is that the two teams are fairly evenly matched.

It appears then that it is up to the Armour student body to help pull the Alma Mater's team through to victory by a stupendous burst of enthusiasm and whole-hearted support that will spur the Armour five to a winning mood this afternoon.

For that purpose, a pep assembly has been called this morning. Every Armour student should be at the assembly and at the game later in the day. It furnishes a grand opportunity for the entire student body to prove its loyalty and interest in the activities of their Alma Mater.

And what a game it promises to be! Come on you Techawks! Let's go!

An Important Problem to Consider

During the two semesters that the present managing board of the *Armour Tech News* has been responsible for the printed matter appearing in this editorial column, we can recall no comments made concerning the New Deal, the N.R.A., the F.E.R.A., the A.A.A., or in other words the present federal government policy with all its ramifications and its probable effect in future years on our professional life.

This does not necessarily mean that we do not recognize the importance of the above mentioned problem. Comments have not been made because we have felt very keenly our lack of knowledge of the meaning of "a planned economy" and of the whole economic and political composition of our country, as it changes month by month.

As the present seniors approach graduation time the importance of the problem becomes increasingly greater as they try to determine a future course of action in the engineering fields.

It therefore becomes necessary for the thoughtful senior to give the entire situation careful study and consideration. To do this and expect any reasonable degree of satisfaction and success, it appears that the best way of study is to follow what capable and thinking men write in the most trustworthy of periodicals today.

"The Slipstick"

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

A city boy was visiting his country cousin. "What do you know about cows?" quizzed the country lad. "You don't even know if that's a jersey cow."

"I don't know from here, 'cause I can't see its license."

JUST MORE DEFINITIONS

PEDESTRIAN—A man with a wife, daughter, two sons and a car.

SWEET NOTHING—Marshmallows.

THE SHORTEST DISTANCE BETWEEN TWO POINTS—A straight eight.

SPACE—It does not exist, according to a recent statement of a famous astronomer. This is confirmed by the city man who tries to park his car somewhere downtown.

THE CONSTITUENTS OF QUARTZ—Pints, according to a college freshman.

A BACHELOR—A man who, when he accomplishes something great, gets all the credit.

AN AUTO JACK—A useful little iron contrivance that is always back home under the porch steps when you want it out on the road.

Visitor (at quiet resort): "Whatever do you do here when it rains?"

Native: "Oh, we just let it rain!"

Little Sis: Bill comes over often to see you but you never seem to go places or do anything.

Big Sis: Yes, we seldom go places.

NEWS FLASH: 3,181 people died of gas last year. 31 inhaled it, 41 lighted it by touching a match to it, 3,100 stepped on it.

Just 'cause trees bend in the wind is no sign that the tree's trunk.

R. H.

Fraternity Notes

PHI PI PHI

Gamma chapter of Phi Pi Phi takes great pleasure in announcing the officers for the coming year:

President—George L. Savidis.

Vice-President—Walter J. Tallafuss.

Secretary—David A. Forberg.

Treasurer—Eugene A. Heike.

Social Chairman—Donald C. Suhr.

The Mothers Club is making final preparations for their card party to be held at the house Thursday afternoon, January 24.

The ping-pong and billiard tournaments are well under way with the actives holding the majority of victories. The house ping-pong team will be picked after the tournament and will engage in a few practice games before the Interfraternity Tournament begins.

TRIANGLE

A ping-pong match has been scheduled with Beta Psi. Although it is but a practice match, it will be very interesting.

Brother Windbigler of the class of 1931 is visiting. He has been working in South Bend as assistant county engineer.

RHO DELTA RHO

With the present semester drawing to a close, our social season has been laid aside, everyone concentrating their efforts to continue our scholastic standing.

A new house tournament, this time a pool contest under the direction of Brother Rosenthal, will start this week, and speculation is running

high as to its final outcome.

The alumni chapter held a "crazy bridge party" last Saturday night and the novel ways of playing this honored card game afforded entertainment to all present.

SIGMA ALPHA MU

At the last meeting on Monday, Jan. 14, we were fortunate enough to have present one of the largest alumni group within recent memory. Also present was fra Grossman, regional advisor and alumnus of Rho chapter at the University of Illinois.

In our efforts to secure a still larger alumni group, we have succeeded in obtaining the services of three loyal alumni: fraters Rosen, Grossman and Chamson who are bending their efforts as well as their time to this end. The next meeting will be at 8:00 p. m. on Monday, Jan. 28 at the house, 3124 S. Michigan Blvd. All alumni who see this are earnestly requested to be there, and, if possible, to bring their old fraternity brothers with them.

Fraternity Ping-Pong Schedule Is Arranged

At the meeting of the Interfraternity Council last Tuesday the question of whether or not to hold the Interfraternity Sing and Spring Concert at the Goodman Theater arose. It was finally left to the chapters to decide. Arrangements for the presentation of the scholarship award to the fraternity having the highest scholastic average was also left to the decision of the chapters.

The ping pong tournament was scheduled for some time during the second week of next semester.

Faculty Members Hold Dinner in School Grill

Strict social conventions were forgotten for the moment last Friday evening when the Faculty club held their first social event of the new year. Most of the members of the teaching staff were present, accompanied by their wives who directed the entertainment.

A dinner was given, after which the group indulged in a game of anagrams. Although a theater party was a part of the program at last year's affair, it was decided that an evening of bridge would be more enjoyable, so after the playing with words, those present occupied the remainder of the time with hands of bridge.

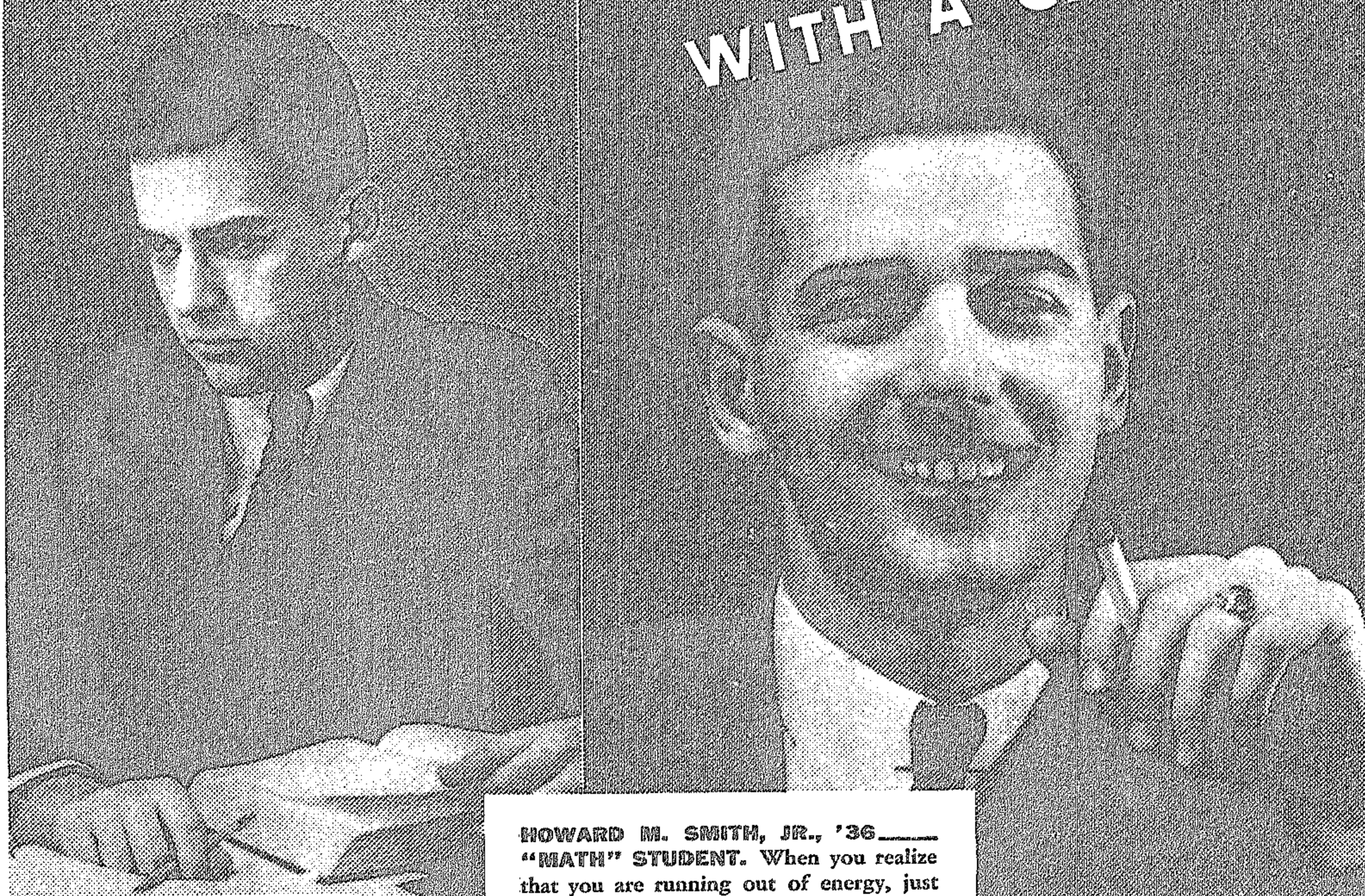
Campus Club Holds Initiation Smoker

Initiating eleven new members into the Campus club has increased the membership to over 40 in number. The new men, who are H. Drell, N. Duschek, C. Hockert, G. Nakayama, J. McCaulay, H. Olsen, E. Skach, U. Schrupp, C. Skuza, W. Waite, T. Wilczynski, were accepted at an initiation smoker held Thursday evening in the Campus club rooms.

The evening was featured by an unusually large turnout which included some alumni and former club members. Another initiation will be held as soon as there are enough pledges. Since any person connected with the Institute is eligible to join the club if he desires, the membership is continually increasing.

TOO MUCH
STUDY? . . .

GET A LIFT
WITH A CAMEL!



PRO SQUASH CHAMPION.
John L. Summers says:
"I have often fought my way through a tournament—come out weary and exhausted—then smoked a Camel. Soon my energy is brimming again! Naturally, I am partial to Camels."

HOWARD M. SMITH, JR., '36—
"MATH" STUDENT. When you realize that you are running out of energy, just remember this advice from one who knows—Howard Smith, who is taking a heavy mathematics course: "When I light a Camel," he says, "it refreshes me and promotes alertness. Most of the college fellows I know are Camel smokers. They like that 'lift' they get from Camels, and also agree with me that you can smoke Camels all you want and they never upset your nerves."

LEAF-TOBACCO EXPERTS AGREE

"Camels are made from finer, more expensive tobacco—Turkish and Domestic—than any other popular brand."



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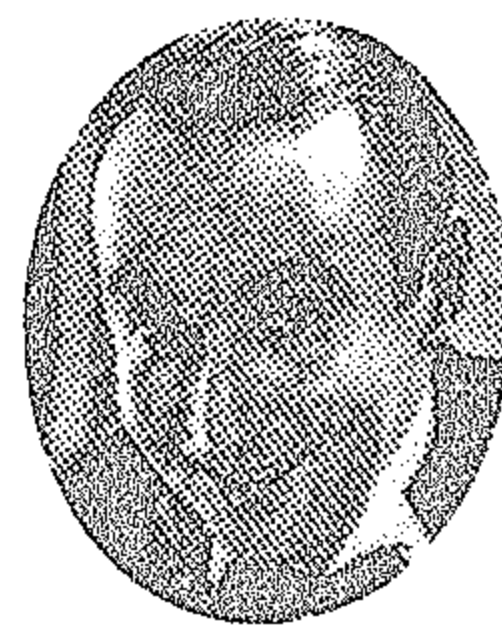
For Your Pleasure... Tune In on

THE NEW CAMEL CARAVAN

featuring WALTER O'KEEFE • ANNETTE HANSHAW
GLEN GRAY'S CASA LOMA ORCHESTRA

TUESDAY { 10:00 P.M. E.S.T.
9:00 P.M. C.S.T.
8:00 P.M. M.S.T.
7:00 P.M. P.S.T. THURSDAY { 9:00 P.M. E.S.T.
8:00 P.M. C.S.T.
9:30 P.M. M.S.T.
8:30 P.M. P.S.T.

OVER COAST-TO-COAST WABC-COLUMBIA NETWORK



WALTER O'KEEFE

SCIENTIST. "The enjoyment of smoking means a lot to me," says R. F. Mann, B.S. "I picked Camels as my cigarette years ago. I like the flavor of Camels better the longer I smoke them. And Camels never jangle my nerves."

CAMEL'S COSTLIER TOBACCOS
NEVER GET ON YOUR NERVES!

Hotchkiss Speaks on Radio Program

(Continued from page 1)
jeets when they are needed; as Dr. Hotchkiss pointed out, evening classes at Armour are attended by many young men who are employed, but are preparing for better positions, and by many college graduates who wish to supplement their college work.

In regard to adult education, Dr. Hotchkiss suggested that its cultural aspects ought not to be neglected, even in the case of engineering and scientific subjects. "Science, viewed in its larger aspects, is at the same time a study of modern living." The vocational and the cultural aspects of adult education must go hand in hand.

In general, Armour is planning to enlarge its facilities, with a view of more strategically offering such an educational program to business men, to college graduates, and to others who want to live their lives intelligently in this modern world.

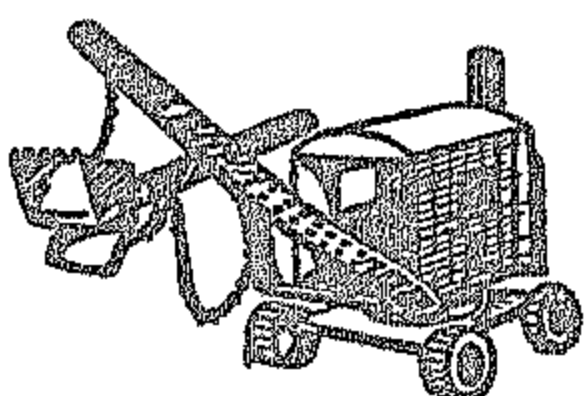
Employment Prospects Brightening
A number of signs of brightening business prospects were referred to by Dr. Hotchkiss. Not the least of these was the fact that Armour's evening class enrollment has increased by more than 200 this year. He also quoted from an article in the June, 1934, issue of "Commercial Radio" by Dr. Harvey Davis, President of Stevens Institute which discussed some statistics developed for the American Telephone and Telegraph Company. These indicated that, while too many engineers were being graduated in the years from 1927 to 1933, if the normal trend continues to 1937, about 3500 too few will be graduated in that year, and by 1938, the accumulated shortage will have wiped out the accumulated surplus of other years.

Still another reason given by Dr. Hotchkiss for the encouraging prospects for engineering graduates is the applicability or engineering training to other fields, and the broadening of the engineering field itself. He discussed the growing importance of engineers as social workers, mentioning the housing problem as one that they are attacking.

Social Imagination Needed
All of this leads directly to the need which Dr. Hotchkiss next pointed out, the need for a larger contribution to social imagination by engineering education. In this he saw a particularly promising field for adult education, which can reach men who have finished their college education but who need "to secure a grasp of the broader relationship of engineering."

That Armour is developing its plans for adult education with full recognition of this basic need, he assured his listeners.

THE STEAM SHOVEL



If T. FRANCIS JONES doesn't pay his 25 buck tax on his model T Ford pronto, FRANCIS will graduate (according to BILL LOCKLING) "from the august halls of Armour to the County Jail!" All we can say is... what is the difference?

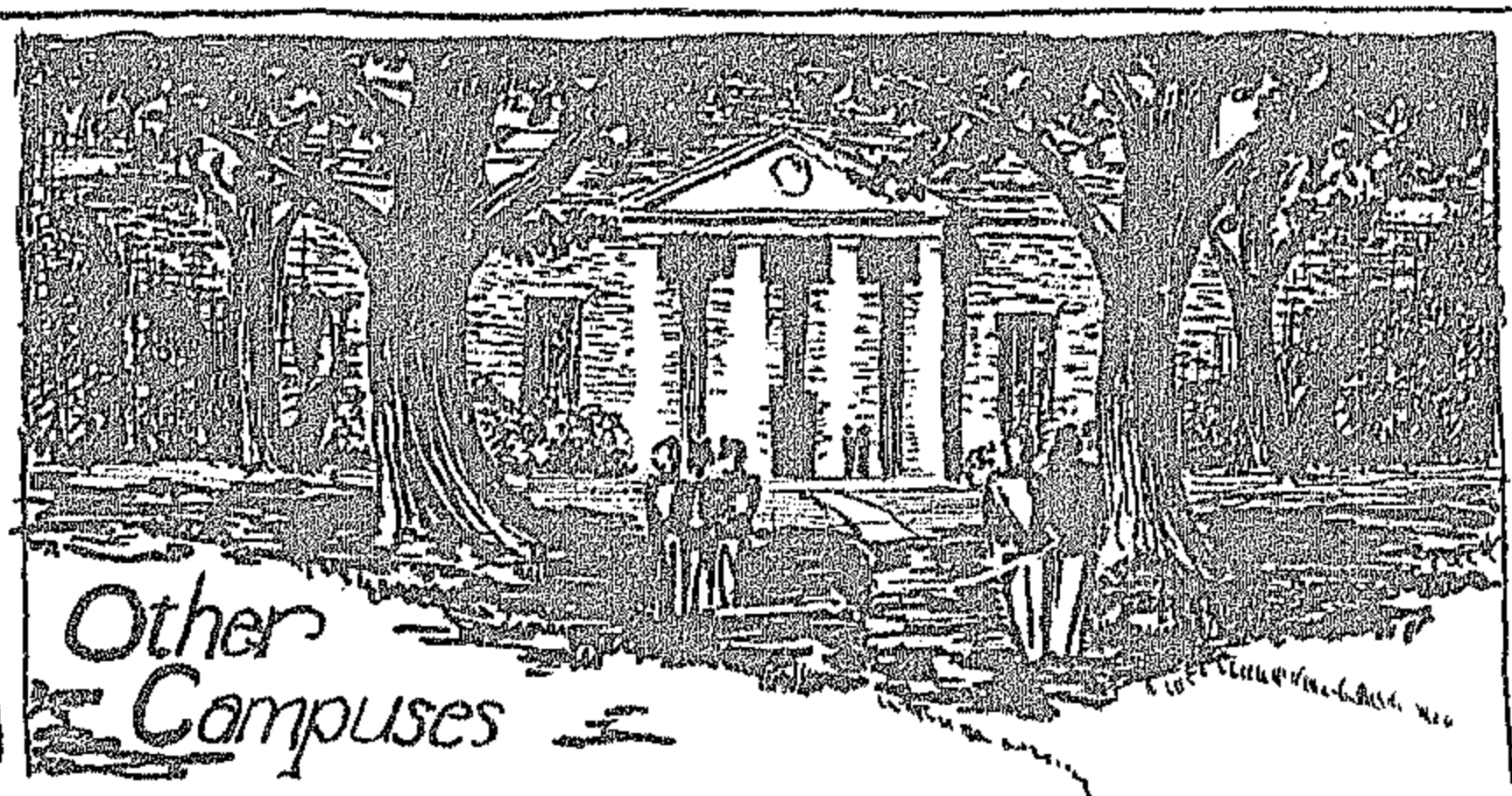
We understand that a certain little kitty took a fancy to AL LESTER—which AL didn't seem to reciprocate. You can charge up your cleaning bill to Mr. Allison, Al!

The Steam Shovel is informed that Mr. Aloysius P. Auge (ow-ghee) of the senior electricals is on a hunt for new rear ends! See Al for further details.

We're a little hazy about the details of the following—but anyway it seems that PROF. CARPENTER said, sezze, "Mr. So and So proved that probably such and such was true."

Will some one tell us whether SOL ENDER—physicist—has finished developing his conversion factor to change degrees Fahrenheit to radians!!

According to an article in Sun-



By John K. Morrison

Two Harvard professors were recently embarrassed when a chimpanzee showed by test that he was as intelligent as two five-year old children. The children used were those of the professors.

Highly perturbed is the Queen's College Journal, Kingston, Ontario, over what it considers an insulting window display by a Kingston merchant. The newspaper gives the business man credit for meaning well. But when he goes to the point of adding women's silk lingerie and liquor bottles for local colors in a college boy's room, Queen's is indignant. Other items in the model collegiate room are an unmade bed, a lop-sided window curtain pole, profuse cigarette butts, littered papers and books, and a collection of highly suggestive signs.

Following a complete overthrow of senior officers elected recently, an entire new slate was elected in one of the most exciting class elections ever held at Northeastern university, Boston, Mass. The new election was held due to charges of illegal balloting and fraternity politics in the first poll.

May I pass on the advice given to freshmen at Alleghany college: In case of fire take your time. Green things do not burn easily!!?

An then there was the freshman girl who took Anthropology because it was the study of man.

Cornell university scientists have raised two sheep which have never eaten a blade of grass.

Colby college students, in the old days before everyone carried watches, were summoned to and from classes by the tolling of a bell cast by Paul R. vere in 1824. And to get out of classes, the boys used to steal the clapper (or the bell itself). They even tried to freeze it silent by tipping it upside down, filling it with water, and letting it freeze—but it righted itself and they were all soaked with water as well as classes.

Minnesota does things up right: the committee for an annual dance

Professional Fencers Hold Exhibition Bout

In an exhibition arranged by the fencing club, a pair of professional fencers, Tom Cox and Otto Haier, demonstrated their skill in the use of the foil, epee or dueling sword, and the light saber last Thursday. Both are masters in the use of the weapons.

Before the actual bouts, a short talk, accompanied by a demonstration of the principles of attack and parry was given by Mr. Haier. Between bouts, Professor Hanns Fischer entertained the students with stories of German university life.

day's Tribune "GEORGE WEST" is soon going to take the big leap. Tough luck, George!

We wonder how come BILL GRAY couldn't stand when he got home one night last week? And why couldn't he read what time it was? BUTTER-CUP, were you drinking or were you drunk?

ARTIE HIGHMAN is petitioning DAVE (Soft Shoe) MORETON to put cleats on his shoes so's ART will be warned next time he decides to hold an impromptu lecture!

FROSH — (to dignified? gentleman): Pardon me professor where is the administration building?

OTTO P. P. FREILINGER—(Exit).

was to choose an orchestra. Each committee member took it upon himself to choose the band. Result: six orchestras with hardly enough dancers for one.

Graduates from many colleges and universities are taking an active part in politics at Washington and in state government. Seven men are graduates of the University of Michigan, two are from Harvard, two are from the University of Alabama, two are from Wisconsin, and others represent colleges from all over the U. S.

There is more than one way to pay for a college education. A student at the University of Colorado washed 150,000 windows while working his way through four years of college.

Jr. Fire Protects Visit Inland Steel

Professor Schommer's industrial chemistry class of junior fire protects went on an inspection trip to the Inland Steel corporation at Indiana Harbor, which is a few miles from Gary. The group of fifteen students went in three cars.

Since the mill is operating at 75 per cent capacity, the group was able to get a good idea of the working of a steel mill. The class is studying steel in industrial chemistry now. They watched the operations of the blast furnace from which the iron was drawn into huge ladles and taken to the open "hearth" furnace. The steel from the furnace was put into ingot molds, and then rolled into sheets.

The rolling mills are completely automatic. After the steel has been rolled to the desired thickness, it is dipped into a bath of sulphuric acid which removes oxides. It is tin coated and cut into uniform sheets, after which it is inspected and graded into two classes by women. This tin-coated steel is familiar in the form of "tin" cans.

TRUSS CLUB

The Truss Club is pleased to announce the initiation on the evening of January 12 of the following men: C. J. McCarty C. E., '37. J. M. Gray E. E., '36. J. H. Houtsmo E. E., '36. M. E. Mezeck E. E., '37. Several of the alumni were present to assist in the formalities.

Arx News

If you were in our boots for a little while, you'd agree that the senior ARX are about the BATTLEST bunch of charetteers you had ever run across. AND just to give you a "candid camera" view of what transpired on the current charette, we will start at the most remote, the most undesirable, and the most inaccessible corner of the ART Institute. Here we will see, gentlemen, the eccentric Mr. Granger "avec chapeau mais sans blouse" slaving away, and scratching his noodle over some trick way to render his architecture, and GENTLEMEN, he knows the tricks! ON the next board is the "QUICK with a pun" FARO, who manages to keep his shirt on so that no one will see the hair on his chest. Passing on, we notice, side by side, ZUKOWSKI and Skippy JOHNSON. ZOOK is a man of a few million words; and fortunately Skip is a good listener. Two more opposite types are rarely assembled... And now, the GREAT god CARL T. SEABERG... If you are wondering what such a little fellow is doing with such a big board, you'll probably be right in assuming that there is a problem due, and Carl has an extra tube of VERMILLION water color that he doesn't know what to do with.

Bill NICOLAI is the next tintype, and if you stop to linger, he'll probably tell you he expects to be CROSSED on this project, which will ultimately turn out to be a mention or better... But the best moaner of them all, you are about to visit... the man with that terribly worried expression is none other than Charlie SIEGAL... he's the kind of a fellow you'd hire to worry for you... Aha, and who is this gay cabalero in the pink SMOCK (or is it orchid, or is it just SOILED?) IT'S that effervescent, exuberant, and untiring WIT, H. Hal SLAVITT, ever ready with a joke, a wise-crack or better still a bit of philosophy... And of course, you all recognize the man with the much-publicized haircut... Mal FORSYTHE... But don't be alarmed at the blank paper on the board, because Mal is just waiting for the opportune moment to RUB on his CALCS!!! And here we bump into our versatile friend, Mr. SOBEL, who, if he hasn't got his nose on the drafting board, is no doubt eating his lunch and grading a stack of SOCIAL Science papers at the same time.

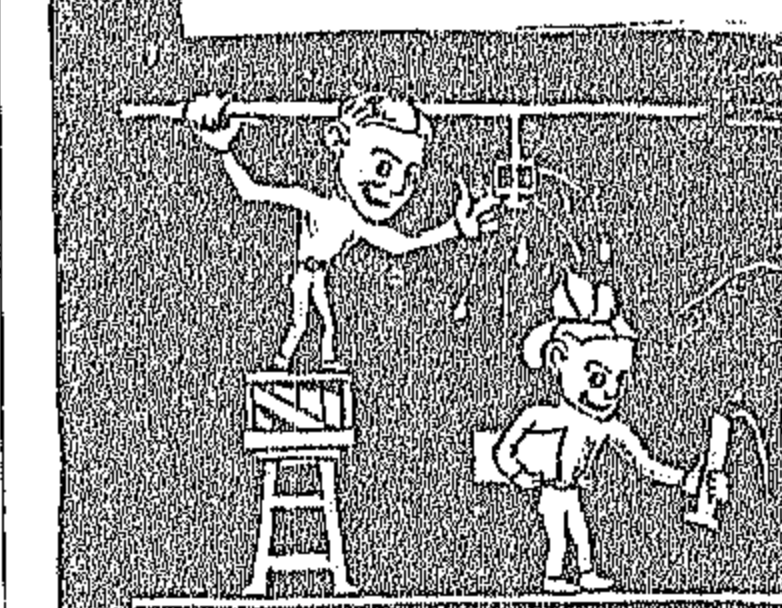
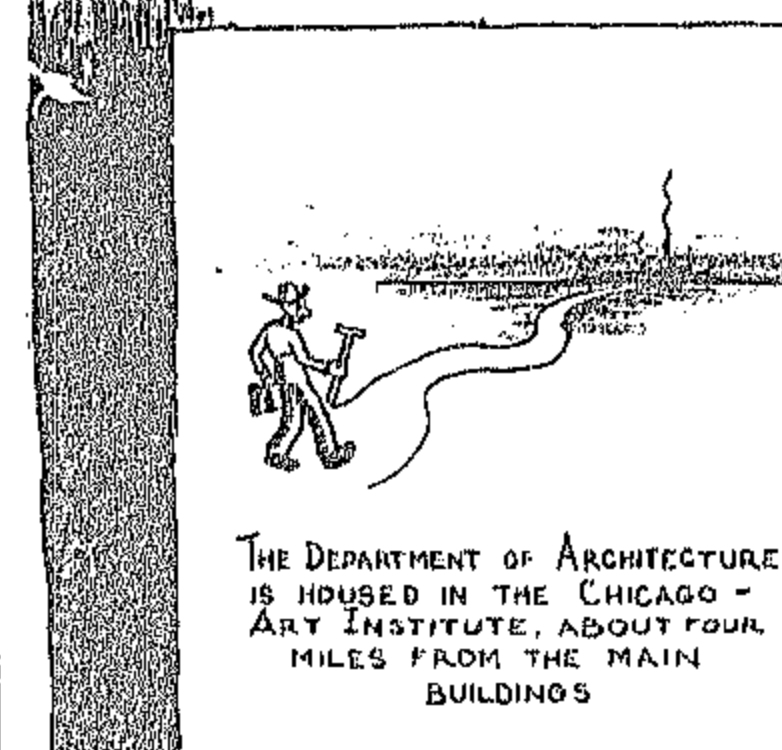
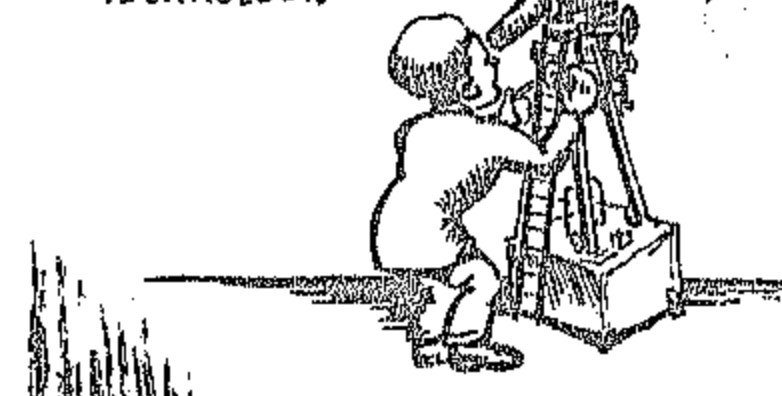
As we approach the door we are greeted by B. R. BUCHHAUSER's characteristic remark, "Well, boys, what will it be, IN or OUT?"... and as we make our exit from that room and are hit on the back of the head by a slamming door, it can probably be traced to the spring that Buck put on it.

In the adjoining room, if we are lucky, we will find Messrs. BLOOM, KROL, and BENYA, working like sixty and not having a whole lot to say... but by all means be careful, because you might bump into Mr. BLOOM'S chin. That tall blonde Scandinavian in the corner, working next to Bob SAMUELS, is Bob ES-

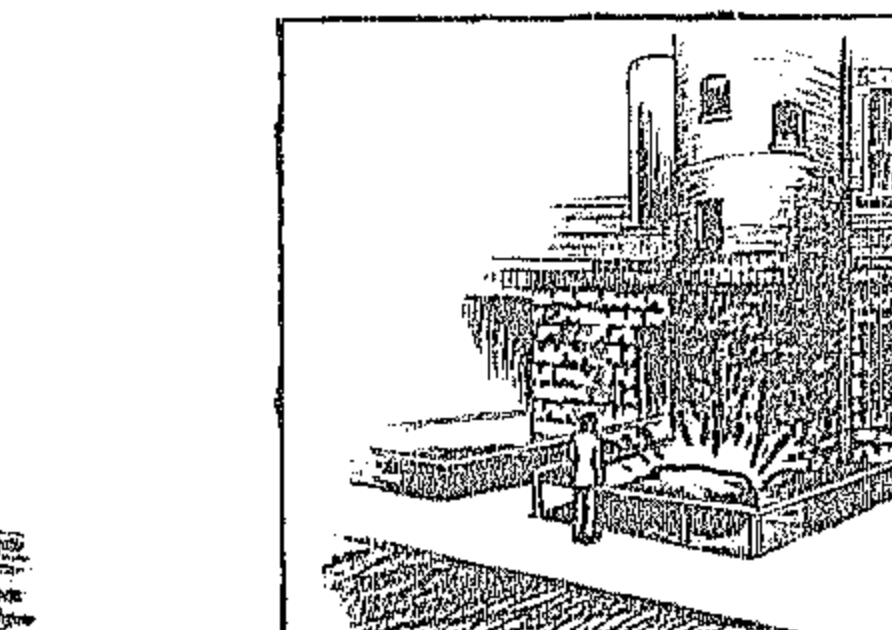
CAMPUS CAMERA

FRANCIS G. PEASE

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Underwriters' Chief Dies in Atlantic City

Mr. Dana Pierce, president of the Underwriters Laboratories since 1923, died in Atlantic City, New Jersey, on December 18. He was formerly the director of the Electrical division of the laboratories and was widely known for his activities in the fire protection field.

Mr. W. R. Small, who had been vice-president of the Laboratories, and manager of the New York branch, has been made president.

BENSEN, erstwhile designer of scenery for church plays... Boys... are we lucky?... Here we meet face to face Mr. Gustav KVAPIL... the senator from Cicero... just dying to give some kind of oration or other... Nope the fellow on your left is not a med. student... he's Larry DAVIDSON... and you wonder how he keeps his face so clean?... Nor is the fellow on your right, in the white coat, a butcher... that's Charlie LIEBERMAN, who'll undoubtedly remark that he can't understand how he got himself into such a mess with that HORSESHOE plan... The next chap with the shining countenance is INDIA INK KOSSUTH... give him a bottle of Higgins black and he's in heaven... This space belongs to Red MAYFIELD who just stepped out of the room for a moment... Don't say anything sharp to Willie PECHOTA, because his blood lacks white corpuscles and he might bleed for hours after... Shucks, we just missed Bill HERZOG... But we can't miss Mel GROSSMAN, because those two barriers in front of the door are not T-squares, but Mel's legs.

EAGLE EYE.

Professor Krathwohl Gives Talk on Lenses

Last Thursday morning the math club heard its second speaker, Professor Krathwohl. His talk was on the subject of lenses, especially how they are corrected for spherical and chromatic aberration in the commercial optical companies.

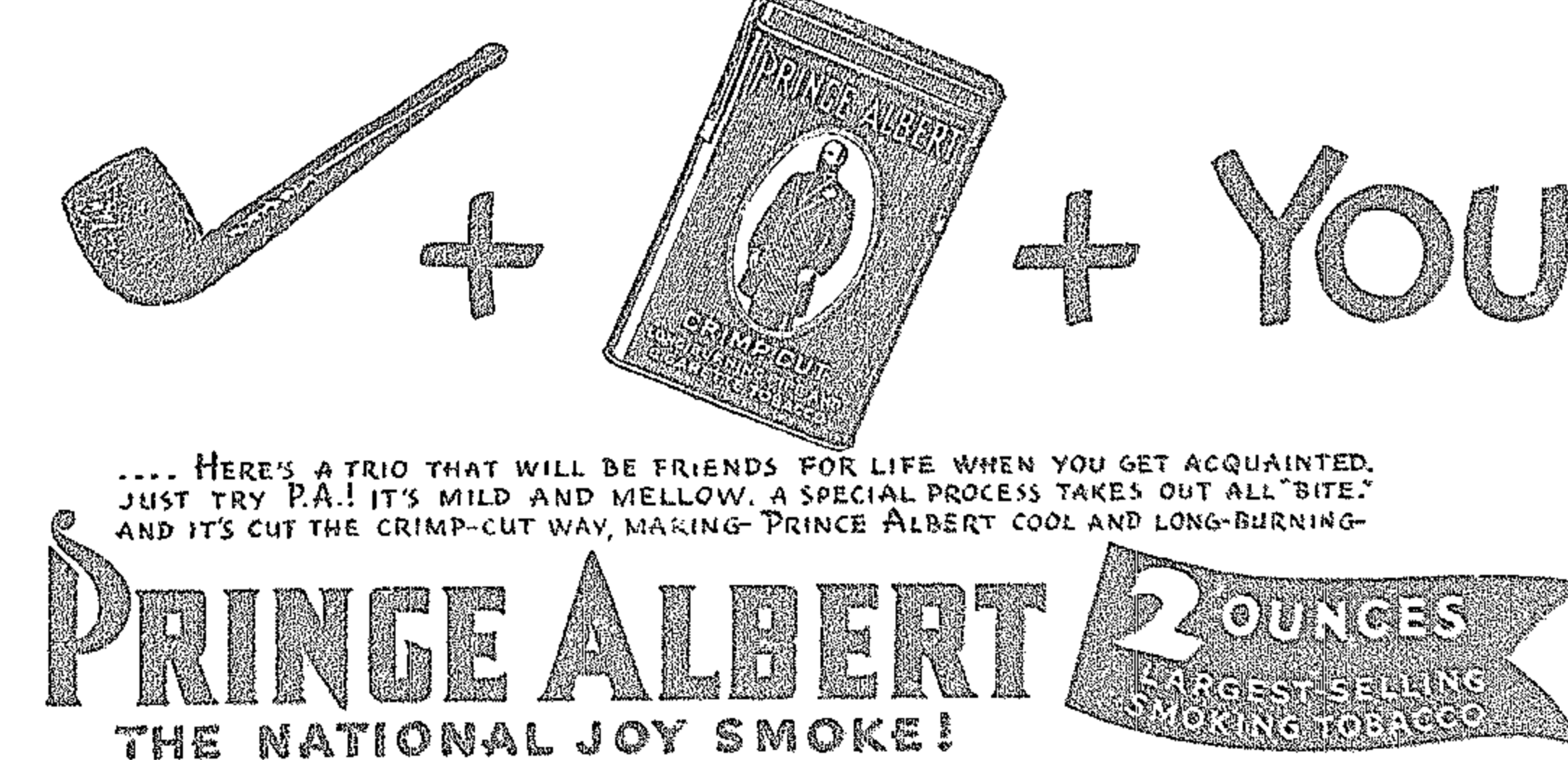
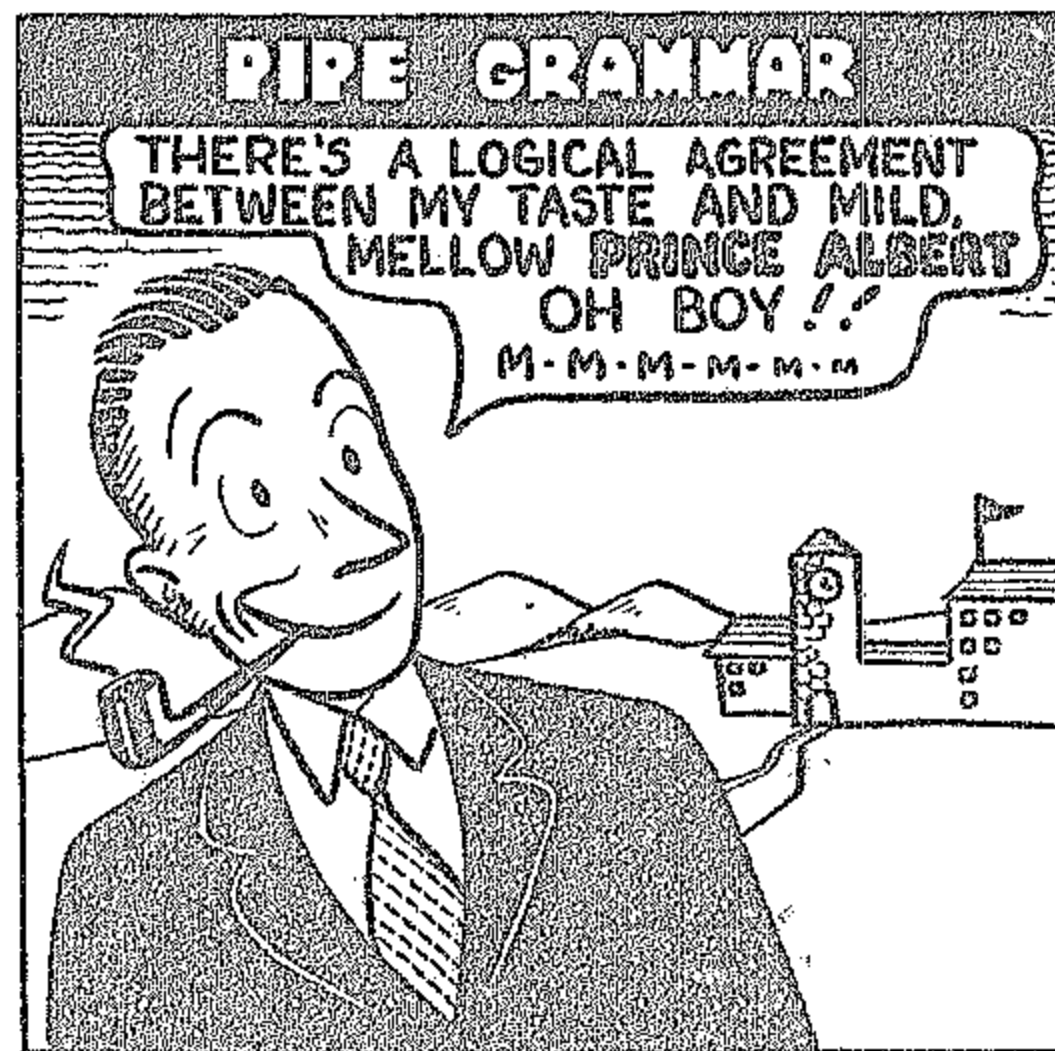
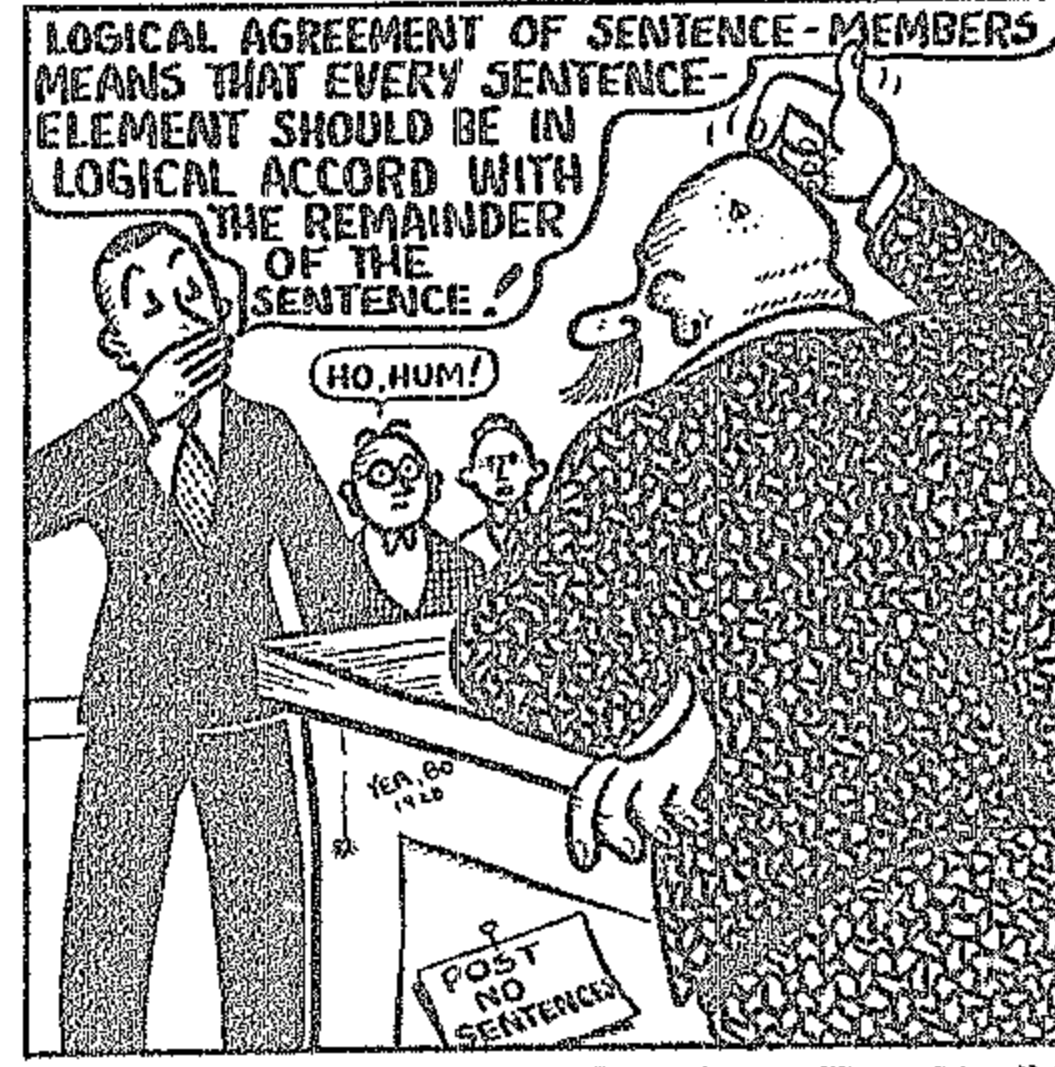
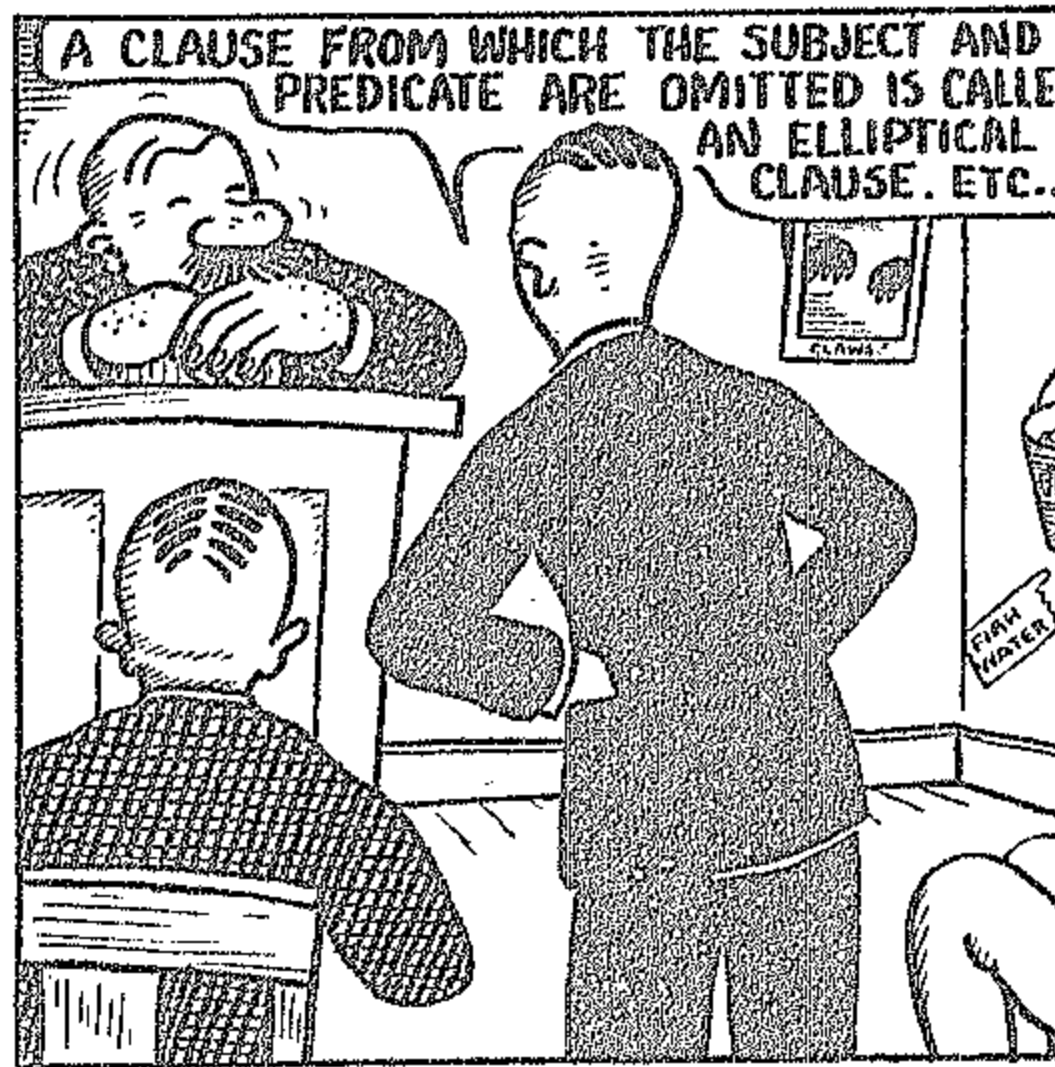
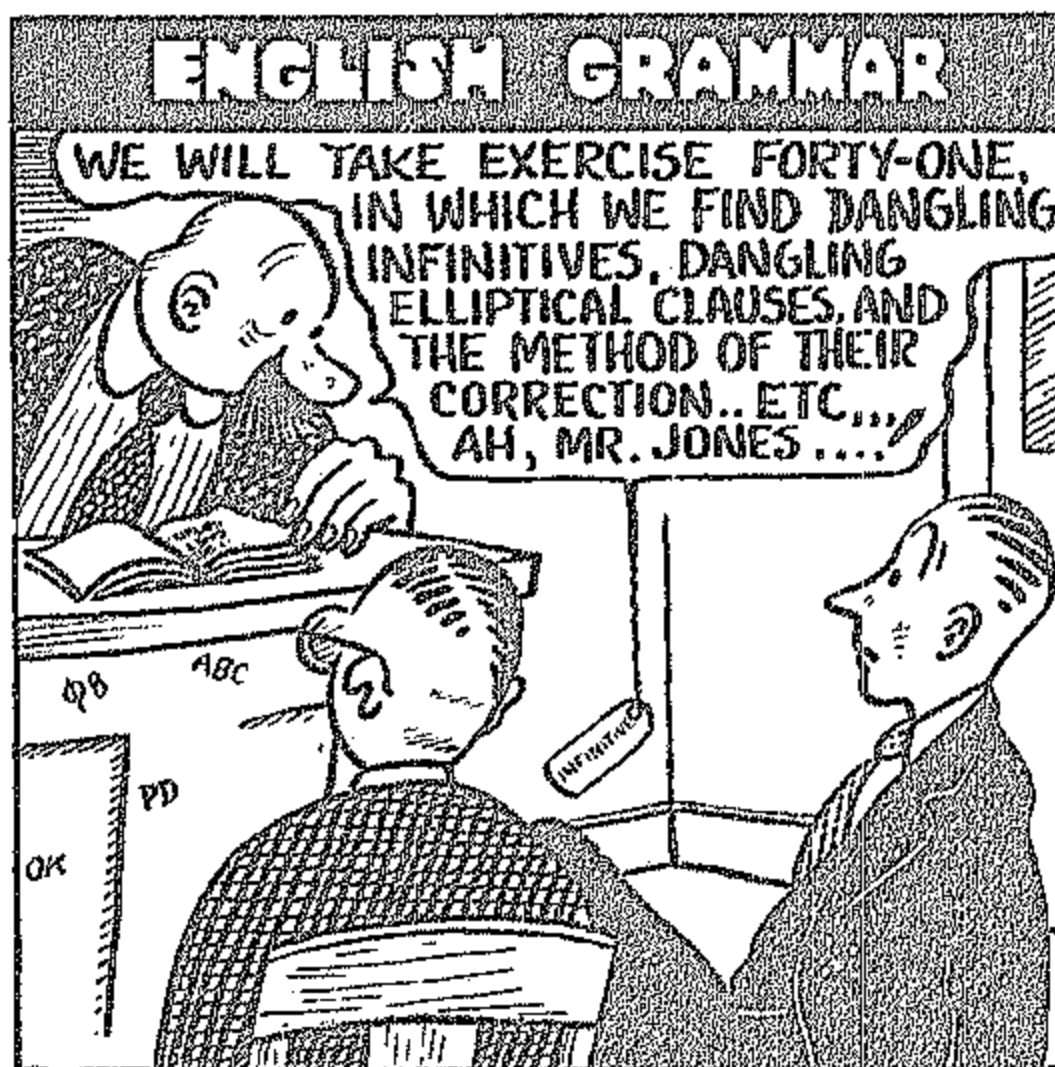
The club voted to have its next meeting January 31. The program for this meeting has not yet been arranged, but will be announced the first part of next week.

Carpenter Elected Director of C. A. S.

At a meeting of the Chicago Astronomical Society which was held the week before Christmas, Professor Arthur H. Carpenter, associate professor of metallurgy, was elected a director of that society. He will serve two years as a director of the society.

Professor Carpenter was elected a director along with Otto Struve, director of the Yerkes Observatory and F. R. Moulton, formerly professor of astronomy at the University of Chicago.

This honor and responsibility which has been conferred upon Professor Carpenter has undoubtedly been given because of his outstanding work as an amateur astronomer, while still teaching metallurgy and chemistry at Armour. As most of the Armour students know, Professor Carpenter constructed one of the reflectors which was used to bring the light of the star, Arcturus, into use in lighting and opening the Century of Progress.



INTERCLASS TRACK CROWN TAKEN BY FROSH TRACKMEN

Seniors Grab Second Place; Juniors Are Third

Sophs Are a Poor Fourth

The Interclass Relays turned out to be a surprise to both juniors and seniors when the frosh nosed out the upperclassmen last week. The seniors beat out the junior team for second place; last place being taken by the weak soph squad.

Track lettermen were allowed to compete in one event and in this manner the scoring power of the track lettermen was restricted. By flooding the meet with several capable men in each event, the frosh captured five firsts and enough places to beat out the senior squad. The seniors accounted for four firsts, and the juniors two; the sophs were only able to win one second, no firsts.

The freshmen placed in every event but the 880 yard run and the pole vault. The hope of the seniors was blasted when their relay team of Nelson, Rigoni, Kulpak, and Rosen took third, while the freshmen and junior teams came in ahead. This was a close finish with Nelson gaining at the finish after losing time when a competitor, falling in front of him, caused him to display his hurdling ability.

Bristol High Point Man

Bristol, a senior, was high point man with 14 markers. He placed in the 70 yard high hurdles, the mile, the high jump, and won the pole vault. Next in the point getting was Thornton, a freshman, with 10 points and Dunbar, also a freshman, was third.

The meet started with a first place going to the freshmen. Engleschall stepped out to beat another freshman, Dunbar, to the tape. The 440, 880, and mile events were won by Neal, McGrath, and Nelson, respectively, before the frosh stepped to the front again in the two mile, when Faust romped home first.

The next frosh win came in the shot put when Thornton out-tossed his frosh competitor, Hale, and Stanovich, the senior entry.

Frosh Win Relay

The freshman team climaxed the meet with a win in the final event, the 880 yard relay. The four, composed of Widell, Engleschall, Dunbar, and Neuert, won in a close finish from the senior and junior teams.

The high points of the meet are: the interest and track ability that enabled the freshmen to put over a winning combination, a rather uncommon occurrence in interclass athletics; the defeat of the highly touted senior squad; and the inability of the sophomores to come through with even a semblance of competition.

SUMMARIES

70 yd. dash—Won by Engleschall (F.); second, Dunbar (F.); third, Carroll (S.). Time 0:75.

440 yd.—Won by Neal (J.); second, Rigoni (Sr.); third, Friede (Sr.). Time 0:54.2.

880 yd.—Won by McGrath (J.); second, Tuma (J.); third, Jones (Sr.). Time 2:16.7.

1 mile—Won by Nelson (Sr.); second, Faust (F.); third, Linde-man (F.). Time 4:55.6.

70 yd. low hurdles—Won by Rosen (Sr.); second, Fleig (J.); third, Dunbar (F.). Time 0:9.0.

2 mile—Won by Faust (F.); second, Bodnar (F.); third, Mieczkowski (J.). Time 11:47.5.

70 yd. high hurdles—Won by Roberts (Sr.); second, Bristol (Sr.); third, Scott (J.). Time 0:9.4.

Shot Put—Won by Thornton (F.); second, Hale (F.); third, Stanovich (Sr.). Distance 31 ft. 3 1/2 in.

High Jump—Won by Thornton (F.); second, Harrold (S.); Bristol (Sr.); and Scott (J.). Height—5 ft. 6 in.

Pole Vault—Won by Bristol (Sr.); second, Concolino (J.); third, O'Connor and Rigoni (Sr.). Height 10 ft. 4 in.

880 yd. relay—Won by Freshmen; second Juniors; third, Seniors.

Final Results. Freshmen, 58; Seniors, 53 1/2; Juniors, 37 1/2; and Sophomores, 9.

Armour Prepares For Red Demons

(Continued from page 1)
will supply the necessary first line reserve.

Bob Merz, Captain Lauchiskis and "Springs" Christoph will keep Armour's hands on the ball when height is needed. The captain will try to see more than eight minutes of action and duplicate his 16 points of the Lake Forest game. Merz, at center, has played very consistently in all departments, and will just about match Jim Thumley's 6 feet 4 inches in the center circle in this game of the season.

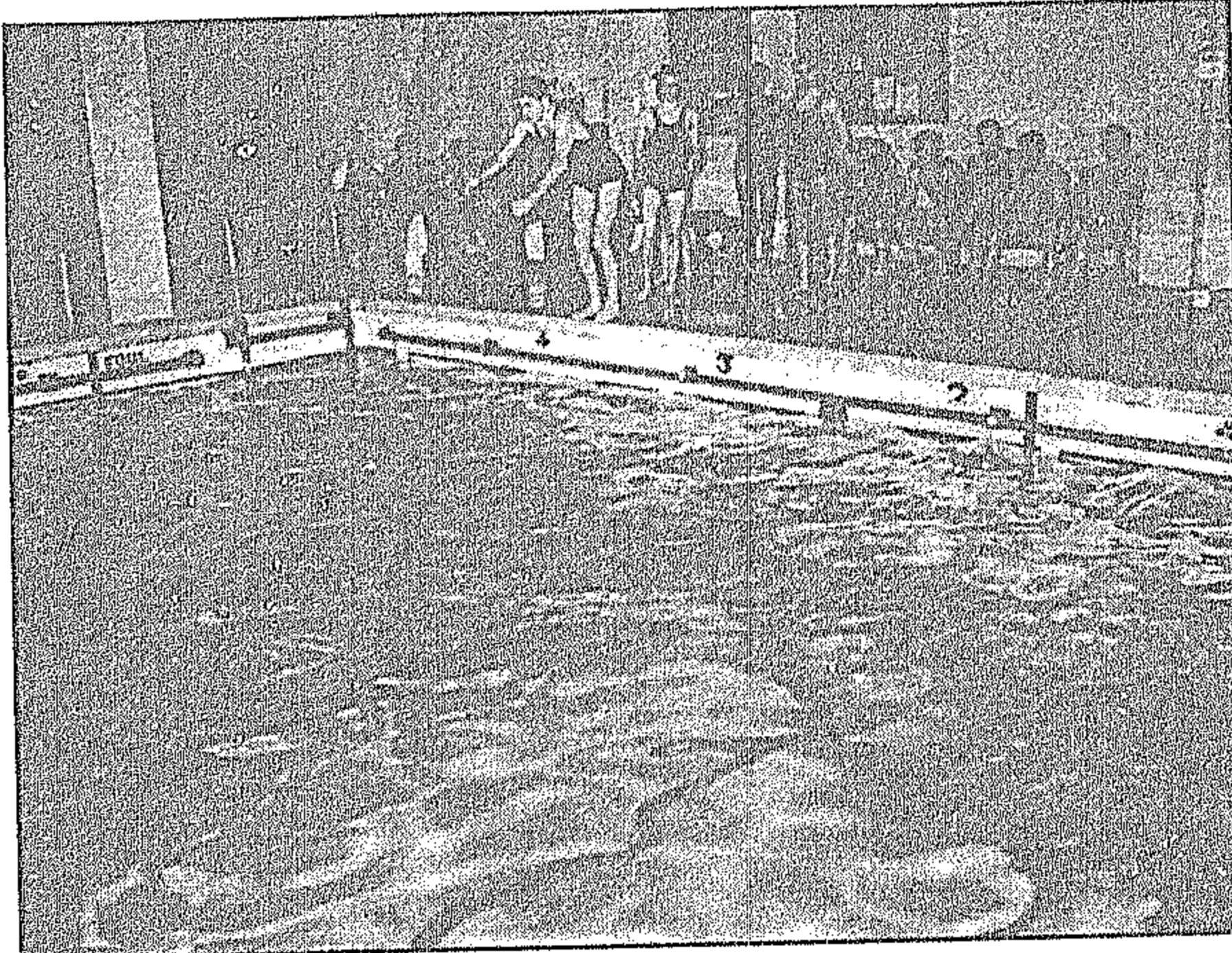
Opponents Present Strong Front

Incidentally, this Thumley lad has replaced Ade Dillon, Naperville center of last year. Dillon pushed in 9 points in Armour's first defeat last year. A Mr. Bobby Burns is the new fifth, and he rated All-Chicago as a Lane prepster, so he comes not without prestige. The remaining Reds are: Len Yuknis, star forward and leading scorer; Hippo Spiegler and Bob Young, guards. If Burns, who plays guard and forward takes a guard position, Young steps to the forward position.

This year the North Central men have met but two teams that have been on Armour's schedule: Chicago and George Williams. The Demons preceded the Techawks to the Maroon gym by a week and set them down 39-22. The Techmen, in their turn, took a 34-27 victory very handily in a loosely refereed game. George Williams, the other college, was also a dual victim, falling to Naperville, 42-20; and to Armour, 46-23.

Tight Game Expected

From these facts it would appear that the teams are of about equal power. Although Coach Krafft is an alumnus of the invading school,



A shot taken during the first meet of the 1935 season. Armour won from the South Side Junior College team by a 40 to 35 score. The meet was held in Bartlett pool. The next will be with Wright Junior College to be held February 6 at Bartlett pool.

nothing would please him like a victory; decisive preferred, but modest accepted. North Central has consistently been the fly in Armour's sports pudding, in all lines of endeavor. Last year's games were disastrous for Armour as already stated. In '33 the Red Demon cage team set down Armour twice, 28-26; 29-23. In '32 Tech hopes fell once out of one, 27-22. Before this date, the two teams didn't meet till we reached '29. In this season Armour lost one 36-29, and won one 34-29. Armour has not defeated North Central since 1929, six years ago!

Perhaps This Year

But now the worm must turn! The team is hot; the opposition no hotter. The students must do all that the team doesn't. The gym is big and there is no ban on noise.

1935 TRACK SCHEDULE

Jan. 14—Interclass Meet.
Feb. 16—Loyola at Armour.
Feb. 22—North Central at North Central.
Mar. 2—Chicago Daily News Meet.
Mar. 5—Elmhurst at Armour.
Mar. 9—Central Intercollegiate at South Bend.
Mar. 16—ARMOUR TECH RELAYS.
Mar. 23—Butler Relays.
April 13—Elmhurst at Elmhurst.
*April 27—Northern Ill. Teachers College at (?)
May 4—Bradley at Armour.
May 7—Loyola at Loyola.
May 11—Wheaton at Armour.
May 18—Elmhurst Invitational Relays.

*Place not arranged as yet.

MICHIGAN NORMAL BEAT OUT BY A SCORE OF 33-25

The Wentworth Armory witnessed another Armour basketball victory on Tuesday, January 14, when the Techawks defeated Michigan Normal by the score of 33 to 25.

Play started slowly with Armour handling the ball. Normal dashed in and by a swift passing attack sank the first basket. Points were then secured in quick fashion by Heike and Merz. Heike ended the half with another basket and the score was 16-18 in Armour's favor. The play in the last half was fast and furious with Dollemaier, Warner, and Heike playing beautiful ball.

Box Score

Armour Tech—33	b	f	p
Heike, f.	6	4	1
Lauchiskis, f.	0	0	4
O'Brien, f.	1	0	1
Merz, c.	2	1	0
Dollenmaier, g.	0	1	3
Warner, g.	3	3	0
Levy, g.	0	0	0
Totals	12	9	9
Michigan Normal—25	b	f	p
Wendt, f.	0	0	2
Moroz, f.	0	0	0
Ory, f.	2	0	2
Bernard, f.	0	0	0
Haidt, c.	1	0	1
Dirske, g.	3	1	3
Hanneman, g.	4	4	3
Worznjak, g.	0	0	2
Totals	10	5	13

Referee—O. Stenger (North Central); A. Glick, (Illinois).

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Armour Matmen Defeat Maroons

Wednesday, January 16, witnessed the first successful wrestling match this year, when the Tech mat men defeated Chicago by the close score of 26-23, the place of the match being the Armour gym.

Action began in the 118 pound division when Ware of Chicago won from Hella by a fall in 8:15. The Maroons also won in the 126 pound class when McDonald also lost by a fall.

Armour Takes Lead

Dunn in the 135 pound bracket started a winning streak by defeating Feigas by a time advantage of 1:15. Patterson, Schmidt, and Kercher, all in the 145 pound class, came out the winners in their respective matches. Kreml kept up the pace set by the other Techawks and won from Sidley by a fall in 4:44. This scoring spree put Armour in the lead by 21-10, a lead which was maintained throughout the remainder of the meet.

Maroons Rally

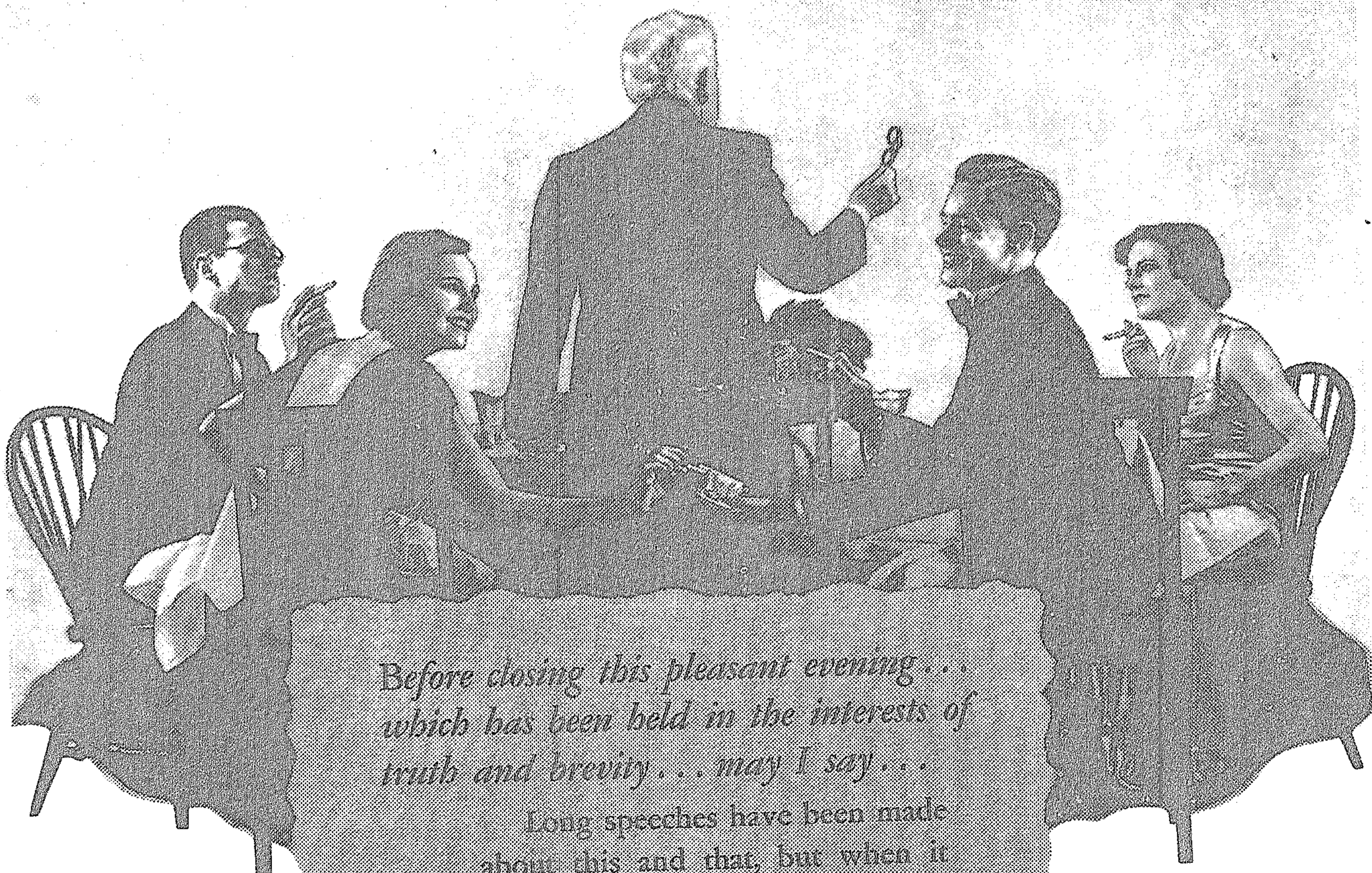
The Maroons again broke the ice when Whitside defeated Peterson in the heavyweight class by a fall in 4:39, and Kessel won from Machulis by a time advantage of 6:42. Sumner of Armour then won in the 165 pound bracket and Berquist of Armour lost in the 175 pound section by a fall in 7:48.

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