



## Musical Clubs Give Inspiring Performance

### Large Crowd Attends Goodman Concert

More than 700 appreciative friends of Armour Tech heard the inspiring program rendered by the musical clubs at their second annual Goodman Theater Concert last Thursday night. This large audience received more delight in the way of musical entertainment in the three hours' duration of the concert than had been estimated or expected beforehand by anyone.

All critics and reviewers have agreed that this performance surpasses by far that of last year, and that all credit for the splendid musical performance goes to the Musical Clubs' most able director and guide, Mr. O. Gordon Erickson.

#### New Soloists Heard

Both the Orchestra and Glee Club have improved greatly since last year, having added a great many favorite selections to their repertoires. The incoming talent is also increasing rapidly. Among the new soloists who performed at the concert are the following: W. Mashinter brought from his violin the glorious tones of "Meditation" from Thaïs; M. Nyström, tenor, sang "Trees" with orchestral accompaniment, followed by an encore, "One Alone"; P. Woods, oboe, played the introduction to "Katinka" by Friml; A. Allegretti, violinist, surprised the audience by rising to sing the mournful interlude of the "Song of the Bayou."

#### Lighting Effects Prominent

Soloists of last year who have returned to give their well-liked selections are B. Heine, accordionist, and F. Hrachovsky, Czechoslovakian tenor, who sang several native folk songs. Negro spirituals by the Glee Club included the snappy "Ezekiel Saw de Wheel" and the softer, more gentle "Goin' Home." During the latter

(Continued on page four)

## Math Models Draw Praise

### Prof. Spencer Plans To Display Models at Columbia

As a result of the recent showing of his models at the Palmer House as a part of the mathematics exhibit of the National Council of Mathematics Teachers, Professor W. A. Spencer was invited to display them at a mathematics exhibition which is to be held at Columbia University soon.

Professor Spencer's models have been the subject of much favorable comment in the past, the latest of which has arisen from his exhibition of some sixty charts and fifteen solid analytic geometry models.

#### Praised by Mathematicians

The charts showed a large number of geometrical constructions as well as the graphical representation of many curves and equations. The solid analytic models, familiar to most Armour students, consisted mostly of hyperboloids, ellipsoids, paraboloids, many surfaces of revolution, and various self-explanatory string and sphere constructions.

Professor Spencer has been congratulated by many of the mathematicians who have viewed his work. In addition, the Council of Mathematics Teachers has expressed its appreciation for the loan of the exhibition, which was considered one of the main sections of the convention.

#### Construction Discussed

A lecture on the construction of the models and graphs was delivered to the convention by Professor Spencer in which discussion he told of his own contributions to the methods of making models. The processes of construction and the details of workmanship were part of the work which was considered the most important.

## School Quarterly to Appear on March 12

Circulation and size of the next issue of the *Armour Engineer and Alumnus* will reach the highest point in the history of the publication. The magazine will be issued to 12,000 students and alumni. Under a new policy copies will be sent to all the students who at any time attended the Institute.

The issue will be available March 12, and is to have several articles of technical interest. The Golden Gate Bridge is discussed by Mr. Paine of the engineering firm of Strauss and Paine, which has charge of construction of the bridge. An article on Armour's architectural department explains many interesting facts about that part of the school. Larson and Gétz, two Armour graduates, have written an article on feletype type setters.

The alumni news will contain excerpts of letters sent to the *Engineer and Alumnus*. Announcement is made of the annual banquet to be held May 25 at the Medinah Club.

## Freshmen To Choose Orchestra This Week

Bal Tabarin of the Sherman Hotel will be the scene of the first social attempt of the class of '40. This ballroom is considered a fitting setting for any dance, and social chairman Eugene Worcester announces that the music of an orchestra already in high favor with Armourites will be featured.

Under consideration are several orchestras that have played for past Armour dances, Corey Lynn, Lou Diamond, Emil Flindt, and Morrie Sherman. A definite decision will be made this week, and bids priced at \$1.50 will soon be placed on sale. The freshmen are looking forward to the same co-operation in putting this dance over that they have given for the upper class affairs. Bids may be obtained from the social committee consisting of L. D. Downing, E. H. Horn, W. I. Miller, E. H. Worcester, chairman, and W. F. Yeager.

## School Enrollment Shows Slight Gain

Enrollment figures for the current semester issued by the registrar's office show the largest registration in Armour's history. Day school enrollment now totals 846 students, as compared to last semester's total of 825.

The freshman class, as usual, has the greatest enrollment with a total of 283, while the sophomore class is second with 176. Leading all departments, the mechanicals have 151 in their ranks while the chemicals follow with 139. In comparison with last year's figures, all departments, with the exception of engineering science and fire protection, showed slight increases, the largest being in civil engineering.

The number of sophomore cooperative students in mechanical engineering is 38 while the total number of freshman co-ops is 52.

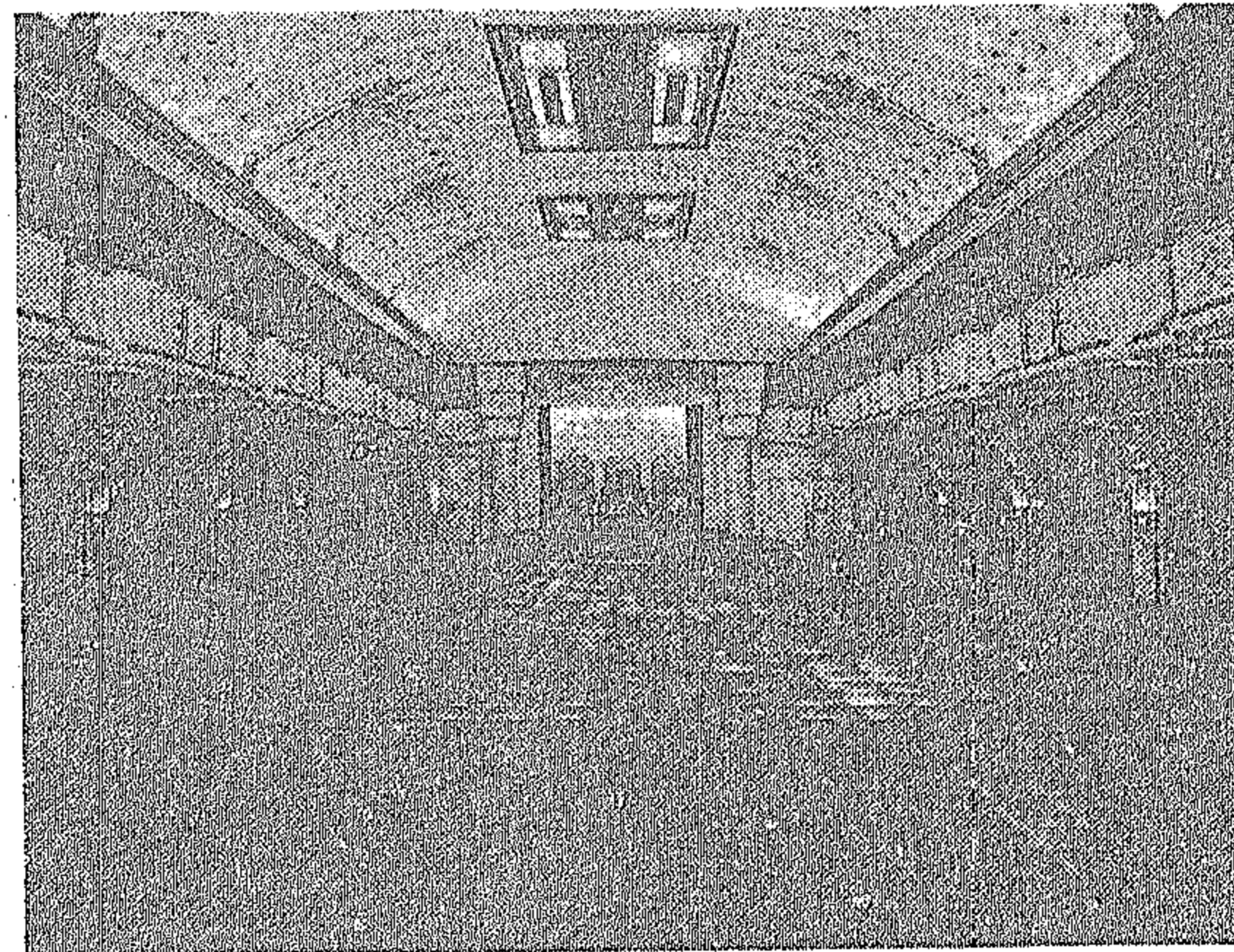
## Plant Executives Continue to Meet For Discussions

Continuing their meetings being held weekly at the LaSalle Hotel, the executives from the participating companies will meet next Friday evening at the eighth meeting of the conference course in plant engineering and maintenance. The meeting is part of a series of fifteen being sponsored by Armour Tech in order to bring industrialists into closer contact with each other and with the Institute.

Mr. Ralph G. Raymond, managing director of Chicago Lighting Institute, will cover the question of illumination at the meeting, and supplementary material will be presented on air conditioning, sanitation, and other phases affecting human occupancy. Following the speech, Professor H. P. Dutton, head of the social science department of Armour Institute and chairman of the meetings, will conduct the discussion.

(Continued on page six)

## Sophomore Informal Will Feature Knickerbocker's Oriental Ballroom



Oriental Room of Knickerbocker

## Discuss Production Savings at A.S.M.E.

At the last meeting of the Armour Branch of the A.S.M.E., Paul Reh, M.E. '37 and special student working under Prof. H. P. Dutton, head of the social science department, spoke on "Time and Motion Study."

#### Describes Motion Study

Describing time and motion study as a means of increasing production without raising production cost, he pointed out that problems in that field can be approached in several ways. The first, and almost obsolete method, is to check the motions of the best operators with a stop watch, noting the positions of the hands, etc., and the time necessary to carry out a specific operation. Using this data, a system eliminating the unnecessary motions is worked out. A more modern way, which is being introduced, is to take motion pictures of the more efficient operators at their work; by studying the finished picture, frame by frame, the analyst is enabled to study split second movements.

#### Two Methods Used

Reh used a problem solved by both methods to illustrate his point. The problem consisted of assembling a common wall plug and a length of wire. Motion pictures of the original motions of assembling previous to study, and the drawing of the jig which speeded up the assembly were shown.

At the next meeting V. J. Jandasek, M.E. '37 and A. M. Meyer, M.E. '37, will speak on "Hydraulic Drives" and "Railroad Signals", respectively.

Inspection trips for the A. S. M. E. Conference to be held April 19-20, will include the Crane Co. April 19, and the Western Electric Co., Monday, April 20.

## Dr. Oldenburger to Show Curve Analyzer

Dr. Rufus Oldenburger will conduct a demonstration of the harmonic analyzer at the University of Chicago Thursday evening, March 4, at 7 o'clock for the benefit of his evening school class in mathematical analysis and interested students.

The harmonic analyzer is an instrument which finds an equation for a given drawn curve when the curve is traced by the instrument. Specifically the harmonic analyzer gives the coefficients of a Fourier series. If the given curve represents a sound wave, the terms in the Fourier series correspond to harmonics so that the sound wave can be broken up into components. When musical instruments reproduce these components simultaneously, the sound represented by the given curve is reproduced.

Armour students not in Dr. Oldenburger's class, who are interested to see the analyzer are invited to join the class for Thursday night. The class will meet in room 401, Social Science Research Building, University of Chicago, where Dr. Oldenburger will demonstrate the instrument.

Site of Sophomore Informal next Friday night.

## Co-ops Meet, Discuss Position as a Class

Questions pertaining to their standing in school were discussed by section "A" of the co-ops at their meeting in the Mission building on last Friday. The questions which gained the most prominence were those relative to the standing of the third semester co-ops with respect to the other classes of the school, class jackets, fraternities, and membership in the professional societies.

As the present, third semester men in the co-operative course comprise the first group of their kind, their precise position has as yet not been ascertained. This group of third semester co-ops is scheduled to graduate with the class of '40 yet they entered with the class of '39. In an effort to coordinate the two divisions of the co-op department, the officers of group "B" were invited to the meeting. According to the co-ops, if it is impossible for them to make up their minds to which class they wish to belong, they can at least organize among themselves.

## Seniors Interviewed for Job Placement

Realizing that the best engineering graduates must be spoken for first, many large concerns are already interviewing members of the class of '37 in co-operation with Armour's personnel director, Mr. W. N. Setterberg.

Three General Electric Company representatives interviewed all of the electrical and mechanicals of the senior class on one day and selected five men to whom they offered positions. If these men accept they will be able to take advantage of a training schedule which places the men in each department of the entire shops for a short time.

#### Placement Files Inspected

The Container Corporation representative inspected the placement files of the class and selected twelve men for interviews at a later date.

The Prestolite Company man interviewed fourteen seniors, and the Westinghouse Elevator Company interviewed all the electrical and mechanical engineering senior students. Armour and Company requested applications from several senior chemicalists while the Texas Company asked for seven applications.

The Goodyear Company interviewed twenty-five men, and two representatives of United States Steel subsidiaries interviewed about seventy students.

#### Other Companies to Interview

Several other companies, among them the Commonwealth Edison Company, have stated their intention of sending representatives soon, and about a half dozen more large companies have been invited to send representatives.

## Class of '39 Invites All Professors As Guests

When the first strains of music sound the opening of the Sophomore Informal in the beautiful Oriental Room of the Knickerbocker Hotel next Friday night, one of the largest crowds to attend an Armour dance is expected to fall into step. Unique to this dance is the open invitation to the faculty members and administration officers to attend the affair as guests of the class of '39.

#### Feature Hollywood Singer

Adding to the enamourment of the melodies of Tweet Hogan's music, entertainment will be provided by Dorothy Skelly, as featured singer. Miss Skelly recently arrived in Chicago from Hollywood. She was employed by M-G-M and sang in several shorts. Although it isn't definite, social chairman B. G. Anderson, says that perhaps Tweet Hogan will sing some of his song novelties.

Arrangements have been made for the comfort and relaxation of the dancers. The balcony which circles the dance floor has been provided with chairs, and the cocktail bar at the end of the balcony will be open, providing refreshments.

#### Unique Lighting Effect

The Oriental Room is decorated in cream color and has a glass dance floor under which colored lights play. The effect of the floor lights when the top lights are dimmed is beautiful.

Bids for the dance may be obtained from B. G. Anderson and the members of his committee: W. A. Stühr, I. M. Footlik, E. C. Mitchell, R. R. Tullgren, R. I. Jaffee, W. E. Kruse, and H. S. Anthon.

## Faculty Attends Cottrell Banquet

Dean Heald in company with eight members of the Armour faculty paid respect to Dr. Frederick Gardner Cottrell by attending a banquet held in his honor last Tuesday at the Drake hotel. The annual Washington Award was presented to Dr. Cottrell by J. R. Van Peet, president of the Western Society of Engineers, in appreciation of Dr. Cottrell's work and "social vision in dedicating to the perpetuation of research the rewards of his achievements in science and engineering."

#### Famed by War Research

Dr. Cottrell will long be remembered as an American chemist, metallurgist, inventor, founder and head of Research Associates, Inc. During the war he was one of the principal directors of the research which resulted in perfecting a process to recover helium from oil well gases at a cost of about ten cents per cubic foot. Previous to that time, helium had been a laboratory curiosity costing \$1,700 a cubic foot.

He is best known as the inventor of the Cottrell precipitator, which, by electrostatic attraction, cleans gases of fine particles of dust and dirt, saving millions of dollars annually for chemical and metallurgical industries. He has also been one of the chief figures behind the commercial productions of fixed nitrogen from the air.

#### Armour Well Represented

Had Dr. Cottrell chosen to commercialize his patents, the precipitator alone would have made him wealthy. Instead he dedicated his work to the benefit of mankind by organizing Research Associates to acquire and administer the profits of his patents to further scientific research.

Armour was represented at the banquet by Dean Heald, assistant Dean C. A. Tibbals, and Professors Finnegan, Oldenburger, Penn. Foulter, Snow, Vagtborg, and Zigler.

## AT MATH CONVENTION



(Evening American Photo)

Miss Armelle Carlson looks over Professor W. A. Spencer's models at the Armour Tech exhibit shown recently at the annual convention of the National Council of Teachers of Mathematics in the Palmer House.

Professor Spencer's models are distinctive in that they are made of bright material as compared with the drab materials formerly employed.

#### Experimenting With Materials

Not content with his products, he is experimenting with many new materials. Cellulose acetate of many colors is being used as planes in the construction of the newer models.

Solids are now being made of plastics which may be moulded before hardening. Previously it was the custom to use any available spherical bodies. The flimsy cords formerly used in modeling have now been replaced by the stronger, more durable fishing cords. Professor Spencer has considered the use of many new materials in future models.



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On behalf of the students and faculty of Armour Tech, we express our deep sympathy to Elmer H. Olson, junior civil engineering student, on the death of his father last week.

### Are Engineers Leaders?

Is the engineer a leader? Industrial executives at a meeting of the American Society for Management said that engineering graduates could not be used for superintendent work because of their inability to handle men. The fact that many leaders of industry agree on this point is a direct blow at engineering education.

In what way does the young graduate fail? Seven fundamental requirements for leadership are will power, knowledge, enthusiasm, self-confidence, energy, responsibility, and courage. Most of these traits are required and are present in a man who goes through four years of concentrated study. Knowledge and responsibility are the crucial points.

The graduate has better education and better training for continued study than other men. His weak point is often a lack of understanding of men, of human nature. To be a leader he must know each man personally—his likes, dislikes, dominating emotions, and reactions to particular situations. He also must know the more primitive emotions of people as a group. His fault may be in making too exacting requirements of his subordinates, or it may be that his inexperience in the particular work brings disrespect for him as a leader. Lack of extra-curricular activity while in school may have kept him from cultivating human contacts.

With all of his excellent training in other respects, a man is unfair to himself and to others unless he carries his knowledge beyond what he needs for personal gain and extends it into the field of human relations. Armour's social science course is a good start towards this goal. Books in the library on the psychology of leadership are also available.

To carry the work further, we suggest that an elective course in the psychology of leadership be instituted at Armour, in the hope that the engineer's training toward becoming a leader may not be forestalled by inability to handle men.

### Wake Up! World.

Modern culture is probably superior to that of any other system of civilized life. However, no claim is made that it is the highest at every point, but that the modern culture has a practical superiority over all other systems of culture. To the way of thinking inculcated in modern men, the ideals which mark former civilizations are dwarfed by the ideal of this culture—attainment of scientific advancement.

This advancement has been phenomenal, especially in machine technology and chemical science. Improvements in technology in manufacturing on so large a scale naturally require parallel progress in distribution, morals, and other problems of economics and sociology. There has been progress along these lines, but the rapidity of technical advance has far outstripped other improvement of culture until now the world faces an apparently permanent unemployment problem—the most striking evidence of economic failure.

Consider the problem of Joseph Krehmar, a middle aged Ohioan. Two years ago he was suffering from the last stages of angina pectoris, and was doomed to die inside of a few weeks. He had but one chance to live, and that was an

operation never before attempted on a human being—probably not one chance in a hundred of its being successful.

The chance was taken and an epoch-making operation was performed. A muscle from his left arm was grafted into his heart; and although weakened, he recovered after spending four months in the hospital. Another medical miracle graces the story of scientific achievement.

Restored to health, Mr. Krehmar faced the problem of getting his family off relief. He was able to get a job paying five dollars a week, which was not near enough to support his family. Now he has no job and can see no prospect of one.

In the face of this situation, we must acknowledge as a truism his remark, "Lucky? Well, they say wealth isn't everything. I know now that health isn't either."

What is to be done about improving our cultural conditions? Such changes are not the product of a year or of a generation. The least that an engineering school can do is to assure that its students are aware of the problem, and possibly to arouse a desire for studying the social sciences further, by including in the curriculum as much study of modern economic and social problems as is possible.

### Green Orgy

Without doubt Armour students possess the finest technical brains, and the keenest powers of unbiased observation of any engineering school in the vicinity. This is aptly illustrated by their prompt and unfaltering application of their newly acquired technical and engineering principles to the more or less hum-drum routine of daily life. This fact was vividly borne out by a recent survey conducted by an officially registered observer duly authorized by the statistically inclined *Armour Tech News*.

According to this survey, the data for which was collected over a three-day period, 14.3 times as many freshmen as seniors and juniors combined unceremoniously cut across the lawns, or rather what - in - all - probability - be - lawns - if - the - students - did - not - cut - across - them. An attempt at a logical correlation between the comparatively large number of freshmen concerned and the analysis of the lawn-strolling problem is inevitable. The freshmen, having but lately learned that the hypothesis of any right triangle is less than the sum of its two adjacent sides and that a straight line is the shortest distance between two points even if separated by grass, trustingly apply their mathematical knowledge and systematically kick the life out of every blade of grass in sight. The upper classmen are not quite as numerous nor quite as consistent in their efficiency save - a - step - by - cutting - across - the - lawns orgies as the freshmen. This is probably due to the fact that by this time the upper classmen have forgotten all of their freshmen mathematics, and because they prefer doing most of their cutting in a somewhat different manner.

Since 85 per cent of the survey was conducted in front of Chapin Hall, and since 2.31 times as many freshmen as seniors and juniors enter Chapin Hall, the figure 14.3 will have to be, in all fairness, modified to 7.4. However, even this modified ratio shows the trend of one form of student extra-curricular activity.

In this survey, two steps on the unsowed portions of the turf were tabulated as one step on the grass. Since most of the wrongdoing occurred where the sidewalk branches off abruptly at 90 degrees, our original assumption that the misguided action is occasioned by the recent discovery of the freshmen that the side of any angle under 90 degrees is less than one, is probably correct.

It must be admitted—get thee behind me, Conscience!—that the statistical data of this experiment was fictitious. And it must be admitted that these heinous grass-trampings and our equally heinous moralizings have helped fill up quite a bit of newspaper space. But—it's a good idea!

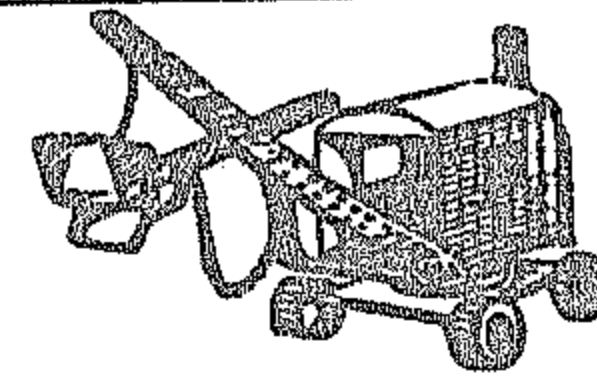
### QUOTABLE QUOTES

(By Associated Collegiate Press)

"There is on most campuses a little noisy minority, but I really believe one of the serious problems we have to face is the conservative thinking of our students." Radicalism is not wrinkling the brow of the University of Michigan's President Alexander G. Ruthven.

"If any fellow wants to play on a team I am coaching, and his apparatus can't digest pie, his stomach is much too weak for him to be a football player, and I can't use him." Coach Bob Zuppke of the University of Illinois can't stomach half-baked notions about players and pastry.

### THE STEAM SHOVEL



Ray W. Starmann sends us an indignant letter berating our negligence and shaky sources of information. He claims that Wally Suhr did not date up the young lady in question, but that Ray himself will escort her to the Soph Informal. And so—we fire our third snooper this week.

Snoop No. 4 checks in with some statistics on the Washington-Lincoln assembly last week. Out of 215 students occupying the balcony, 20 were asleep; and out of 200 on the main floor, 12 took to snoring. This quota does not include those tucked away under the seats and behind the balcony pillars. Popper and Martin made an affectionate sight.

The ARX have always bragged about their unadorned models and so, when we heard that Prof. Spencer was exhibiting several of his models at the Palmer House, we tore over to soak up an eyeful. All we found were umpteen nine models of a parabola, an ellipse, a hyperbola, and a few more reasons for flunking analytical geometry. The only girl there wore a raccoon coat and galoshes! Surprise!

We hope that Leonard Holmes was not thirsty after his sojourn at the Blue Fountain Room on Thursday evening.

Schommer must have seen something good at the Blue Fountain Room floor show to tell Freud all about it.

Sign on bulletin board: "Am leaving school at five o'clock all Glee Club money must be in my hands by that time."

Signed  
W. F. Schreiber.  
(We wonder how much he spent at the La Salle Hotel.)

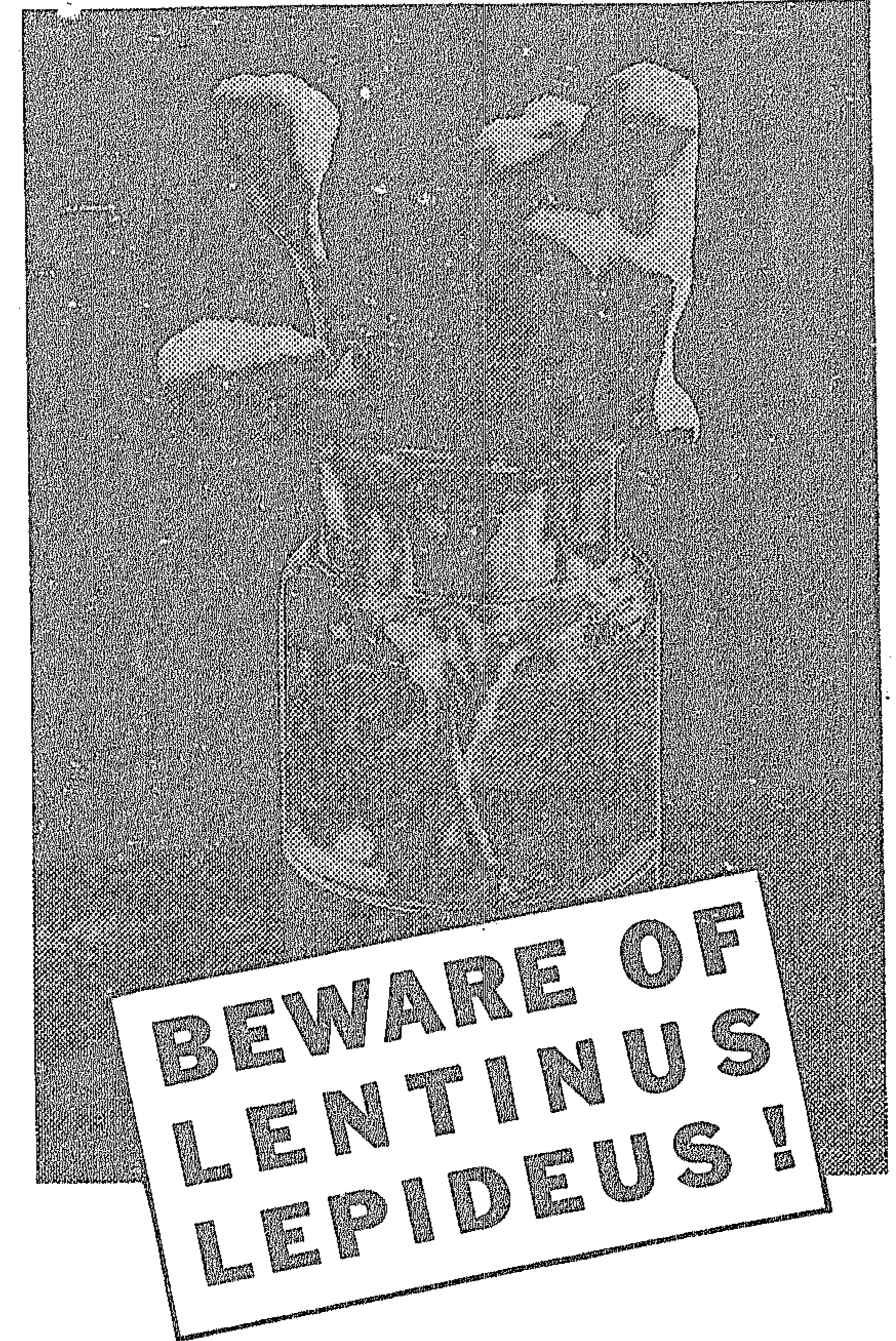
Heidmann: Gosh! it's kinda late, isn't it?

His mother: Yes, where did you go after the concert?

Heidmann: Nowhere!

His mother: Nowhere! Then why did it take you two hours to drive home?

Heidmann: Well, uh, I . . . the car went real slow!!



IT looks harmless, but this fungus destroys poles. So telephone research men wage war on it.

In the Bell Telephone Laboratories, they study many woods, concoct many preservatives. In Mississippi, Colorado and New Jersey—where conditions vary widely—they've set out whole armies of treated test poles. Their continuous experiments yield many a weird but valuable fact about destructive fungi and insects.

Since the Bell System each year uses over 500,000 poles for replacements and new lines, lengthening pole life is most important. It's one more way to make telephone service still more dependable.



Why not give the family a ring tonight?  
Rates to most points are lowest after  
7 P. M. and all day Sunday.

BELL TELEPHONE SYSTEM

**OL' JUDGE ROBBINS**  
GOURD CALABASH PIPE

JUDGE, MY UNCLE SENT ME A CALABASH PIPE, JUST LIKE YOURS. AT FIRST I THOUGHT IT WAS A SAXOPHONE AND LOOKED FOR AN INSTRUCTION BOOK WITH THE SIX EASY LESSONS. JUST WHAT AND WHY IS A CALABASH?

THE 'WHAT' OF A CALABASH PIPE IS A BOWL OF THE AFRICAN BOTTLE GOURD WITH A MEERSCHAUM OR PORCELAIN INNER BOWL AND AN AMBER STEM

THE 'WHY' IS THE WAY THE CALABASH BOWL ABSORBS HEAT AND MAKES FOR A COOL SMOKE — BUT, EVEN SO, THAT'S ONLY HALF THE STORY — THE TOBACCO THAT GOES INTO IT IS EVEN MORE IMPORTANT

YOU'RE TELLING ME / BEFORE I GOT NEXT TO PRINCE ALBERT, I BLAMED MY PIPE FOR THE WAY MY TONGUE WAS ALWAYS BITING! CHANGING PIPES DIDN'T SOLVE IT BUT CHANGING TO MILD, TASTY 'BITELESS' PRINCE ALBERT REALLY PUT ME ON THE JOY ROAD!

WELL, I SEE I CAN'T TEACH YOU ANYTHING NEW ABOUT GOOD SMOKING

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

WHAT YOU WANT IN A PIPE TOBACCO IS WHAT YOU GET IN PRINCE ALBERT: 'CRIMP CUT' TO PACK RIGHT AND SMOKE COOL. 'BITE' REMOVED—NO HARSHNESS ON TONGUE OR THROAT. THERE'S REAL PIPE-JOY, FRIEND!

**OUR OFFER**  
PRINCE ALBERT MONEY-BACK GUARANTEE  
Smoke 20 fragrant pipefuls of Prince Albert. If you don't find it the mellowest, tastiest pipe tobacco you ever smoked, return the pocket tin with the rest of the tobacco in it to us at any time within a month from this date, and we will refund full purchase price, plus postage. (Signed) R. J. Reynolds Tobacco Company, Winston-Salem, N. C.  
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**PRINCE ALBERT** THE NATIONAL JOY SMOKE



## SIDELINES

By A. N. Schrieber

In last week's article, the author presented the premise that since England fears immediate European war caused by the impending economic crisis of Germany, she is attempting to get the United States to loan Germany a billion dollars. The economic crisis in Germany was discussed and is continued in this article.

BUT SINCE GERMANY can not pay cash or get credit she is forced to "barter". Thus in exchange for U. S. cotton Germany will send us quantities of finished goods. (Barbed wire, recently heavily exported by Germany to the U. S., is not on the exchange list. One wonders if that is being conserved for effective fencing in future front line trenches.)

In contrast to the rising price level the wage level is steadily decreasing. Last week the Frankfurter Zeitung published the following facts. A typical electrical engineer with a wife and child now earns approximately \$80 per month after government deductions are made. This represents the upper 10% of the population. An average worker representing the other 90% makes approximately \$29 per month with which to support himself and his family.

HOW LONG GERMANY can continue under present conditions to starve its population is problematical. But, if she were to go to war, food could be rationed as an emergency measure and protests could be called sabotage with the resulting firing squad. Germany spent \$7,000,000,000 for military and armament purposes last year instead of for food and thus her stomach is empty and her muscle is strong.

NOW ENGLAND understands the German situation: economic crisis and bristling militarism, and she fears the consequences. John Bull thus reasons that if Frau Germany can be given a loan to tide her over a financial crisis, war can be postponed sufficiently long to allow England to become properly prepared. John Bull wonders who shall be the kind and auspicious person to make the loan and immediately dear benevolent Uncle Sam is remembered. So, in the fall of 1936, John Bull sent Walter Runciman, president of the British Board of Trade, and Sir Otto Ernst Neimeyer, British financier, to the United States to discuss reciprocal trade agreements and neutrality status for the benefit of the press, and to sound out Uncle Sam's temperament and pocket book over private tea cups.

JOHN BULL'S DELEGATES returned with a rosy picture that must have been made with mirrors which eliminated the Johnson act that prevents loans to countries in default to the United States. Also, Uncle Sam's family, John Public, has no further uses for European "promises to pay". However this does not dismay John Bull. He is confident that Uncle Sam can be made to listen to reason, claiming that, if the loan is not made and war comes, Uncle Sam can not possibly stay neutral. That sounds lovely but Uncle Sam wonders why John Bull doesn't make the loan himself.

ENGLAND CANNOT make the loan because \$7,500,000,000 must be spent in the next five years to make Britain militaristically secure and to provide the proper moral effect to deter other arming nations. This program will average \$168.54 for every man, woman, and child in England. Thus since the United States is believed wealthy and prosperous, the attempt is being made to buy European peace with American dollars. British statesmen further believe that President Roosevelt can be persuaded to do a "Wilson act" because of his personal ambition to further world peace as evidenced by his attempt to draw the United States into the World Court during the early part of his first term, and his more recent efforts at New World peace alliances between the United States and Latin America.

EVEN IF THE absurd loan were completed it is questionable that the desired results can be obtained. The advance to Germany would actually

### Invite Oldenburger to Address Seminar

Dr. Rufus Oldenburger was extended an invitation last week by Notre Dame University to take part in conducting a seminar on metric geometry. Professor Karl Menger, leading Austrian mathematician who was vice president of the 1936 International Mathematical Congress and recent appointee to the faculty of Notre Dame University, is in charge of the seminar.

Because of his international leadership in the field of higher dimensional matrices and determinants, Dr. Oldenburger was selected to address the seminar. Among those taking part in the seminar are Dr. Torrance of the Case School of Applied Science, Dr. Randels of Northwestern University, Professors Graves and Reid of the University of Chicago, and Professor Haas, theoretical physicist of Notre Dame University.

These men along with a group of younger mathematical instructors hold seminar meetings every two or three weeks at Notre Dame University for the purpose of discussing research in the fundamentals of geometry and developing the field by use of higher dimensional matrices and determinants. Results obtained at the seminar will be published in future issues of the mathematical journals.

permit her to further divert national funds for armaments and would ultimately draw the United States closer into the next war.

WHILE THE WHOLE idea of a U. S. loan to Germany is ludicrous at the present time, foreign diplomats

### Dr. Shannon Speaks On February Heroes

Dr. Frederick F. Shannon, pastor of the Central Church, Orchestra Hall, spoke to the student body last Wednesday morning in a address commemorating America's three great presidents who are associated with the month of February: George Washington, Abraham Lincoln, and Woodrow Wilson.

In an interesting manner, Dr. Shannon presented modern conceptions of the contributions of these three presidents, and departed from the consideration of these men as immortals. Wilson was brought out as fully the equal of Lincoln and Washington, and the speaker characterized Lincoln as a humanist, Washington as a realist, and Wilson as an idealist. It was emphasized that each person has to some degree the qualities of a humanist, realist, and idealist which only need awakening.

Dr. Hotchkiss presented the speaker to the audience and thanked him after the closing applause. Dr. Shannon succeeded Dr. Gunsaulus, former president of Armour Institute, as pastor of Central Church and has spoken on several occasions to Armour men.

have been known to perpetrate other fantastic schemes and the immediate future will probably be filled with political antics based on the four Marx brothers philosophy. Thank heavens for such fundamental Americans as Senators Borah and Johnson in our governmental organization who can be counted upon to resist such ideas to the last ditch.

### Concert—

(Continued from page one)

number, only the back-stage shell was illuminated—with dimmed blue lights—thus silhouetting the singers vividly. This is only one example of the wonderful lighting effects that played throughout the evening with seemingly endless variations. R. Lischer, graduate student in the Architectural school of Armour, devised and directed these light combinations.

George Danforth, also an architectural student, is a young composer and pianist whose ability is worthy of considerable attention. He manipulated his fingers across the glistening keyboard throughout his intricate arrangements of George Gershwin's melodies with force, color, and decisiveness. . . . Danforth's arrangements included "Summer Time", sung by sixteen voices of the Glee Club. His encore: "In My Solitude," in George's own inimitable way—hardly conventional, but enjoyed fully.

Most important to your reviewer were the impromptu comments heard in the lobby during intermission and after the concert. It was evident that of all the Glee Club numbers, "Moonlight and Roses," an encore early in the program, was the hit of the evening. "Spirit Flower", by the double octette, ran a close second. All other pieces could easily be considered in the third division of popularity.

Mary Diletto Restaurant  
3258 Princeton Ave.

Menu changed daily. Home cooking. Complete steak or chop dinners, 35c.  
Special 30c dinner

### Plan Interfraternity Dinner Dance in April

The Interfraternity Formal Dinner Dance date was changed from March 20 to April 17 by the Interfraternity Council last week at a meeting held at the Phi Kappa Sigma fraternity house.

Arrangements for the dance are being made by Oreste Tomei and the dance is tentatively planned to be held at the Belden-Stratford hotel. Bids will cost five dollars each and will be available to all fraternity men. Over seventy couples are expected to attend the dance.

Ray Bacci was elected by the Interfraternity Council as interfraternity athletic manager to assist the intramural manager in arranging fraternity athletic competition. A fraternity basketball tournament is in progress this week and a bowling tournament is planned for the near future.

Further comments revealed that the orchestra found two favorites when they played the lively "Espana" by Waldteufel and "Song of the Bayou" by Bloom. "Valse Bluette" by Drigo, was smoothly and carefully rendered.

The robust baritone trio—H. Bodnar, E. Skrzydlewski, and T. Yeakle—were at their best.

### Camera Club Offers Photography Talks

E. P. Mehringer will inaugurate a series of bi-weekly photographic lectures, given under the auspices of the Camera Club, next Friday morning at 10:30, with a discussion of photographic fundamentals. These lectures will continue for the duration of the semester and will include instruction in the use of the camera and related topics. The speakers, with a few exceptions, will be the active members of the "Armour Eye".

At their last meeting on February 15, four chairmen were appointed: F. Harker to head the studio committee, I. Jahnke to lead the dark room committee, A. G. Barry as librarian, and R. F. Grunwald to guide the activities of the program committee. It was also decided at this gathering to increase the scope of the club to include associate as well as active members. The monthly fee for the former has been reduced to twenty-five cents.

Plans for a salon at open house night were formulated, and an invitation was extended to all Armour camera enthusiasts to exhibit their work on that evening.

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Give Us A Trial and Be Convinced  
We beg to announce a very suitable eating place, where everything we serve is prepared to the highest quality in food and cooking material. The best health insurance is: "PURE FOOD, Well Cooked." Here you will always find a combination of GOOD FOOD, SERVICE, CLEANLINESS AND FINE FRIENDSHIP THAT WILL BE CERTAIN TO APPEAL TO YOU.  
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## For Digestion's Sake—Smoke Camels

Smoking Camels, you enjoy a sense of greater ease while you're eating, and afterwards too!

WHAT Fred McDaniel (below) says about Camels is backed up 100% by baseball's "Iron Man," Lou Gehrig—by Frank Buck, of "Bring 'Em Back Alive" fame—by Eleanor Tennant, the outstanding woman tennis coach of the U.S.—and by millions of other Camel smokers in all walks of life. Enjoy Camels at every meal. They speed up the flow of digestive fluids. Increase alkalinity. Help you enjoy food. Camels set you right! They're the cigarette for steady smoking. Light up a Camel and get a "lift."



TEDIOUS STUDIES tend to drag on the nerves, often penalizing digestion. But Camels help in two specific ways: You get a "lift" in energy with a Camel. Again, smoking Camels with your meals and afterwards helps digestion run along smoothly. And Camels don't get on your nerves or tire your taste. Camels are mild!



"AFTER RIDING HERD from sun-up to sun-down, the chuck-wagon looks mighty good to me," says Fred McDaniel (above, also right). "But I'm sure I wouldn't enjoy my 'chuck' half as much without the pleasure I get from smoking Camels with my meals and afterwards. After a good meal and Camels I feel plenty O.K. Camels set me right! They're throat-easy, and they never get on my nerves."

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## COSTLIER TOBACCOS!

Camels are made from finer, MORE EXPENSIVE TOBACCOS—Turkish and Domestic—than any other popular brand.

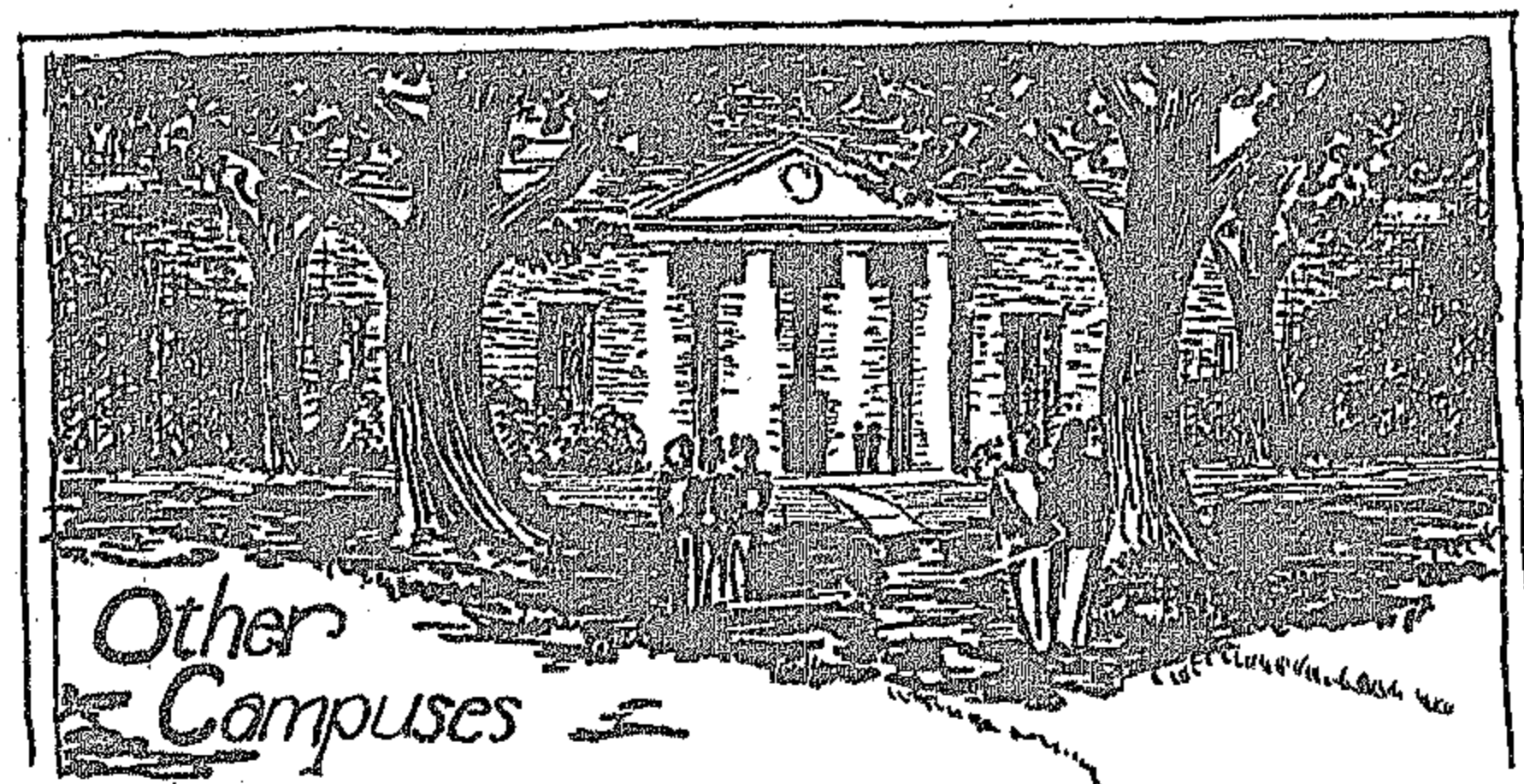


BUSY SECRETARY. "I smoke Camels—nothing else!" says Joselyn Libby. "Camels put more fun into eating and smoking too. So many girls feel the same way that I do—so they smoke Camels."

RADIO'S NEW SMASH HIT!  
"Jack Oakie's College"

Irrepressible Jack Oakie at his best... Also Benny Goodman's "Swing" Band, Hollywood comedians and singing stars—and special college amateur talent! Every Tuesday—9:30 p.m. E. S. T., 8:30 p.m. C. S. T., 7:30 p.m. M. S. T., 6:30 p.m. P. S. T., WABC-Columbia Network.





Stanford girls are receiving a lusty raspberry from coeds at the University of California. During the recent cold snap many Stanford coeds abandoned their silk lingerie for furry red flannel underwear. Palo Alto merchants completely sold out and claimed that Stanford women had been the heaviest buyers of the "scarlet scratchies." Berkeley stores attended the hardness of the U. of C. coeds. The suit of red flannels sold went to a lady well over 70 years old.

DE PAUW UNIVERSITY KEEPS A 12,000-TON RESERVE OF COAL IN THE EVENT THAT MINE-STRIKES WILL CUT OFF THE FUEL SUPPLY. WE WONDER HOW MANY TON RESERVE THE UNIVERSITY OF ALASKA KEEPS. BRR...

Ben Schmoker, executive secretary of the University of Minnesota's Y. M. C. A., receives a lot of unusual requests. A mother, worried about her freshman son, wrote him the following letter:

"I am sending you three suits of woolen underwear under separate cover. Please see to it that my boy wears them as he should during the cold weather."

And some time ago a freshe stopped Schmoker and chirped up with, "Can you please tell me in what building the campus is?" Wow!!

The University of Kentucky boasts a professor apparently so interesting in his lectures that students practically have to be thrown out his class to keep down the enrollment. Prof. Funkhouser's Heredity class attained an enrollment of 115 students as he dropped even first-day absentees from class in a desperate attempt to stem the huge registration. What a man....

Margaret Potts of Ventura Junior College can take dictation at the rate of 200 words a minute for five consecutive minutes. She would make an ideal wife, we think, we think. But what happens after the five minutes?

Coeds at the University of Western Ontario are ready to flop into their chairs for a sit-down strike. They threaten to use their parking-power if the student administrative assembly rules against wearing corsets at formal affairs.

"Vacations are a bad thing. They make students forget most of what they know." Prof. Warner Brown, chairman of the psychology department of the University of California states. Maybe so, but those moonlit nights teach many students quite a few things they never knew.....

"It's really much shorter in Siamese," is the modest comment of the owner of the longest surname at Harvard University, Kaisui Nimmanahaeminda I. G. B.

Of all the sissies! A University of Iowa professor who planned to go on a bobsleighbing party with students had to stay home because his mother wouldn't let him go. She claimed "such a party is not dignified enough for a college teacher."

Awarding prizes for male ugliness on the college campus is by no means a new stunt. The University of Chattanooga probably started the ugly-mug contests by launching an annual search for the most compass-disregarding map and conferring upon its owner the coveted degree of Bachelor of Ugliness. Now Hardin-Simmons University goes Chattanooga one better. Arrangements are being made for the ugliest boy on the campus to have a subsidized date with the campus' most beautiful co-ed. We should have gone to Hardin-Simmons and settled our date problem for once and all.

THE PREPARING OF 150,000 ROUND, WHITE "HEAD-ACHE CHASERS" IS JUST ONE OF THE TASKS THE 4A SENIORS IN OPERATIVE PHARMACY AT THE UNIVERSITY OF MINNESOTA DO IN ONE YEAR.

### The Slipstick

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

Mother warned me. Father cautioned me. But I, firm in the belief that any fool can write a Slipstick, write on to something or other!

#### Introduction

Our typist is on a vacation, Our typist's away for a week Our typist us on his vacation While these dumb keys play huse and seej.

#### Chorus

Brin beck, biting bick, Oy, brung beej mub Onnie to me, ta mr; B(ng b4xj, be-ng bick Oj, bvong bosk m5 belni mx--oh helk!

#### MENTHOL QUIZ

Question: Egbert craves to go to Armour. Hearing of this, his uncle offers Papa advice on what a waste of the filthy lucre (dough) this would be. Only Uncle Snazzy remains silent on the subject. Is this because (a) he believes in college education, (b) he believes Egbert could get a lot of good out of it, or (c) he considers the whole matter none of his business? Answer: It is because Uncle Snazzy has been dead ten years.

Question: Egbert gets a touch of bronchitis. All his Armour comrades dash right over to quote cases in which people died from bronchitis by having it develop into bronchial pneumonia. Only Jake Jeep refrains from doing so. Is this because (a) he has never heard of anyone dying from bronchitis which developed into bronchial pneumonia, or (b) he is afraid such anecdotes might depress poor Egbert? Answer: It is because Jake Jeep is sick abed with bronchitis himself.

Rosalie thinks her sewing famed You see, she doesn't know Why all the boys call her "That little sew and sew."

We will now pause for a moment while the windows are being opened. She: I'm afraid to go into that dark room. He: But dearest, I'm with you. She: That's just the trouble.

Will some one open the windows just a bit more? MORE! MORE! MORE! MORE!

Collegiate viewpoint: It's not the girl that counts, it's what she stands for.

Our censor went to the races And he came home a wreck. He'd seen to his chagrin Two horses neck and neck.

If at first you don't succeed, try, try again—but NOT with the same gal.

—Memoirs of E. J.

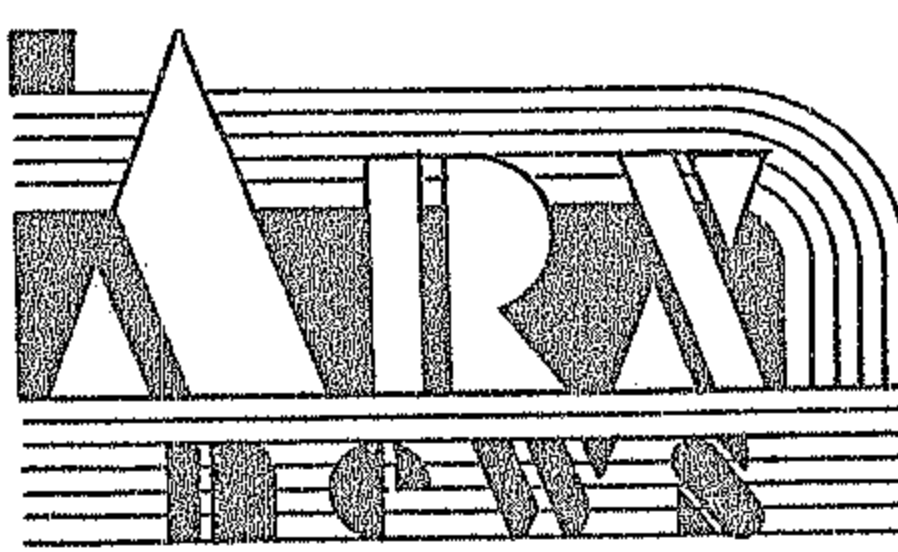
The great southwestern part of our country is supposed to be very healthful to live in. This report comes in from the little town where they killed off two of their oldest people to start a cemetery. A circus agent, hearing of a hundred-and-eight-year-old mountaineer living there, visited the place to show this modern Methuselah for his hire. The agent found him sitting before his shack smoking a pipe. Delighted, the agent entreated, "Come along with me, I'll pay you well." "I'd have to ask Paw first," answered the old codger. "What! you have a father?" ejaculated the agent, "Call him out." "He can't come out now. He's feeding Grandpaw. You see, Grandpaw's hands shake quite a bit now!"

Overheard in P. Mission: "How was I to know I had been going to economics instead of chem lecture all last semester? I sleep just as well in both!"

And you, never realize what a small world this is until you see an Armourite trying to park his car in it.

In conclusion, here's a HOT TIP. When you LAMP a swell looking FLAME don't get her LIT up unless you're a MATCH for her boy friend.

Close the windows. There's a draft. PYTHAGORAS.



Quote Bunny—"Alas, alas, alas"—and that is how we all feel. After today though, the local movie houses will have a slight increase in their businesses, which will last until about March 13. It used to be that a charette was a friendly affair but nowadays there is friendin' goin' on 'mong the Mell & the 'Caughy kids and the ammunition is that vernacular peculiar to derisive collegians. Nothing is quite so disconcerting as being told how lousy you and your problem is and what you will get on it. The counter-attack is also unprintable. It is all in fun though, and so was the way that Meister lost his trousers. Mr. Loebel didn't think it was so funny and told Richardson so. Ambie was rather put out for something that Mike did, and told Mike so. All in a day!!

There hasn't been a judgment so far this semester and so the only thing left to dig up is Dirt. Litwin is still laughing about the time he made Joe Wagner roll across the floor. Joe is the type that can really roll too. . . . There was a rat loose in the department and we think Burnham is the boy who put the thing under Prather's study and then squashed it. An open window helped out a lot after Prather's nose discovered Mr. Mouse.

After one month of clammering about who Mr. Loebel saw in the Empire Room the answer is here. The man who appeared to be so completely, madly, enamored that he could not tear his eyes from his date was—LINDAHL. The truth will out!!

There are no answers to last week's query because A. G. forgot the questions. This week's quiz is: 1. Who was bawled out for loafing and why is Huboi sore at Mr. L? 2. Who is "bluenose"? 3. Who wondered if "Charette" was a French girl and why? Art Gum.

### Fraternity Notes

#### DELTA TAU DELTA

The chapter takes pleasure in announcing the formal initiation of the following men:

Bernard William Bernstrom '39  
James Winston Duncan '40  
John J. Fox, Jr. '40  
Eugene Jerome Hanson '38  
William Andrew Haubert '40  
Louis J. Jacobs '38  
John Forney McIntyre '38  
James Paul Ransel '40  
Philip Increase Robinson '40  
Philip Randall Smith '40  
Donald Helgeson Sunde '40  
William Francis Yeager '40

A number of the actives attended the regional conference at Madison on the 25th, and the house was a little quiet over the week-end.

We are looking forward with a great deal of anticipation to a number of events. One of the forthcoming basketball tourney and we expect to go places this year. The Mothers' Tea will be held on March 14. We also have a fine looking bunch of rushees this semester. The Preb-Rush banquet about tops the busy month ahead of us.

#### PHI PI PHI

Gamma chapter of Phi Pi Phi takes great pleasure in announcing the pledging of:

Maurice J. Gates, Ch.E. '41  
Arthur W. Malmquist, M.E. '41  
With the ending of Hell Week the following eight men were formally initiated on February 20:  
William I. Buckridge, F.P.E. '40  
William M. Caldwell, Sc. '39  
John C. Cerovics, Arch. '40  
Clayton W. DeMent, F.P.E. '40  
Carleton Deuter, Ch.E. '38  
Budd Kubicka, Sc. '40  
George A. Molitor, Ch.E. '40  
Richard N. Vandekieft, M.E. '39

Everyone, including the pledges, enjoyed Hell Week to the fullest. The actives maintain that swinging a paddle hurts the giver worse than the receiver, but the pledges would have been willing to demonstrate the error in this way of thinking.

### KALEIDOSCOPE

SAMUEL HOFFENSTEIN, humorist, pessimist, and—we hesitate to say this, but we have read some of his more unrestrained effusions—lunatic, becomes bitter, and verges on the edge of blasphemy in the following complaint.

When Hoffenstein stops laughing at himself and at the world in general, he joins Thomas Hardy and commences to mutter imprecations at the high heavens.

The selection we give you is from *Poems in Praise of Practically Nothing*.

#### Interlude, for a Solitary Flute IX

The dream of that high roadway out of life,  
Soaring above  
The dust, the rending bitterness, the strife—  
That men call Love,  
I followed:  
Blesséd be God, Who hung so bright a star  
Above an abattoir!

The dream that shines upon the dying breath,  
The desperate story  
Wherewith men seek to light the mood of Death—  
The dream of Glory,  
I followed:  
Blesséd be God, Who hung so bright a star  
Above an abattoir!

The dream of Joy, the dream, that even Christ  
Wrung, earth-cursed,  
From the tenacious thorn, the thunderous mist,  
The acid thirst,  
I followed:  
Blesséd be God, Who hung so bright a star  
Above an abattoir!

The dream of Peace, where like a little wind  
To the indifferent grass,  
Life sings to the green quiet of the mind  
Of airy things that pass,  
I followed:  
Blesséd be God, who hung so white a star  
Above an abattoir!

#### PI KAPPA PHI

Last Sunday, after the ending of a successful probation week, the active members of the Alpha Phi chapter of Pi Kappa Phi had the pleasure of welcoming the following men into their ranks:

Roy D. Brinkman '40  
Julian C. Chaderton '39  
John W. Dodge '40  
John R. Gerhardt '40  
Clarence Laskowski '40  
Elmer A. Matson '40  
Richard Olinger '41  
Harold J. Pavel '40  
Ralph J. Schmal '41  
Edward W. Schmidt '41  
Frank E. Slavin '40

Following the formal initiation a banquet was held at the chapter house.

Next Sunday the Mother's Club will hold a tea in honor of the mothers of the newly initiated Pi Kappas.

Brother Lawrence Barbieri of Psi Chapter of our national organization has been staying at the house for the past week. He is an alumnus of Cornell University in Syracuse, New York.

#### SIGMA ALPHA MU

With a full program planned for the next few weeks the members and pledges are being kept quite busy. This week we are entertaining fra Jimmy Hammerstein, our national secretary from New York, who is visiting our Middle-west chapters. The alumni are holding a special meeting Thursday night in honor of "Jimmy" and all of us extend to him our deepest welcome.

Wednesday afternoon our Mothers' Club gets under way with a tea at the chapter house. A great deal of enthusiasm has been built up for the Mothers' Club and an interesting program will be presented at the tea.

On March 13 our splash party will be held at the Medinah Athletic Club and arrangements are being made by fra Mashman who promises us a wonderful time. Another alumni who is having a grand time is fra Gus Freund who is vacationing in Kingston Jamaica. He has invited us to have our next party down there and all of us wish we could accept his teasing invitation.

Blesséd be God, Who used me for this part:

Who, for the richer savor of His wine,  
Crushed out of me the marrow and the heart,  
The hope, the dream, and for an anodyne,  
Hung star on lying star  
Above His abattoir!

Blesséd be He, Whom men have wisely feared,  
To whom the seas have sent their terror up—  
And may there be no stain upon His beard  
When next He quaffs the cup!

WE NOW GIVE YOU Sir Hoffenstein in one of his delectably impudent moods. This is one of the series which he styles *Poems of Passion Carefully Restrained so as to Offend Nobody*.

Lovely lady, who does so  
Tell me, tell me, do you know  
What the hell you want?

Lady, to whose feet I'd bring  
The world, if I could win it,  
Are you sure of anything  
For a single minute?

You whose eyes can kindle flame  
Only Death could smother,  
Tell me, please, does any dame  
Differ from another?

Was the apple applesauce  
Eve ate in the garden?  
Aren't you all a total loss?  
No? I beg your pardon!

R.W.

### "Structures" Heard By W. S. E. Last Week

Problems in "Structures" were discussed by Mr. W. J. Carton of the Portland Cement Company last Friday at the regular meeting of the W. S. E.

Slides illustrating various types of rigid frame structures were shown by Mr. Carton who analyzed the design of rigid frame bridges and architectural concrete during his talk.

Mr. Carton will return at a future date to give a talk on the construction methods of concrete.

#### THETA XI

The brothers and their girl friends all turned up last Saturday night for an annual Hard Times party. The costumes that were worn were quite novel and unique.

Brother Kercher and his wife dropped in from Milwaukee on Monday, and stayed for a short visit. Brother Kercher is now employed by the Cutler Hammer Corporation.

Our bowling team is practicing in the event that a tournament will be coming soon.

Our first basketball game will be played today with the Delta Tau Delta fraternity.

#### PHI KAPPA SIGMA

The house wishes to congratulate Mr. O. Gordon Erickson and the musical clubs on the fine concert presented last Thursday evening.

The following men were initiated on Monday last:

Wayne Felix Dolder, E.E. '40  
Harry Prestegard, M.E. '40  
Thomas Alexander Clark M.E. '39.  
Leroy Dressler Downing, F.P.E. '40  
Charles William McClaren, E.E. '40  
James Donald Charlton, Ch.E. '40  
George Nels Soderstrom, E.E. '40  
Karl Wilbur Hawkins, Ch.E. '40  
Our congratulations to the new men.

#### TRIANGLE

Our new cook arrived this week and we are no longer plagued with Lundberg's cooking. Brother Frank Kaman will probably come back to school if Lundberg promises to stay out of the kitchen.

Kaman has been advancing a number of reasons for wanting to stay at Bob Young's house. The real reason is the proximity to Mundelein College wherein lives a certain blonde.

A house ping-pong tournament has been scheduled, the winners of which will comprise our team in the Interfraternity tournament. Pledge Dave Dahl has a nice forehand drive and some good serves and is likely to be the winner.

### Leads College Comics



JACK OAKIE—above—offers undergraduate musical talent its first opportunity to perform in big time radio. Jack is "Prexy" of the mythical Oakie-Doakie College of the Air presented by Camel Cigarettes coast-to-coast network. Qualified vocalists and instrumentalists from colleges and universities throughout the country are being enrolled for the rollicking hour-long "classes." Remainder of musical background for the broadcast is furnished by Benny Goodman's swing band and Georgia Stoll's orchestra.



## O'Brien, O'Connell To Lead Tech Quintet Through 1937-38 Season

**Ex-Capt. Heike, Merz, Shukes End Tech Careers**

**O'BRIEN HIGH SCORER**

The Irish influence will dominate next season's basketball play, with Bill O'Brien and Jack O'Connell elected as co-captains to lead the '37-'38 squad. Both men are experienced and are capable of team leadership.



Bill O'Brien fifth high point man with 34 points.

**Heike, Retiring Captain**

The Techawks will feel their greatest loss in team captain Gene Heike, center Bob Merz and forward Chuck Shukes, all graduating seniors. Although Gene was unable to play in the last

four games, he was still third high, sinking 29 baskets and 33 free throws, to total 91 points. Gene's height, expert guarding, and leadership will leave a big order to be filled by remaining team men. Bob Merz, who has been on the squad throughout his school career, has played regular center position for three full seasons. Bob's six feet four inches at the tip off has been the vital point in winning a number of Tech tilts. Chuck Shukes has made an excellent record at forward position, dropping 28 buckets and one free toss, for fourth on the high point list, besides leading a number of spirited rallies.

**Men Recommended for Letters**

At present the recommendations for letter awards, major and minor, are in the hands of the Athletic Commission, and their announcement will be made in the near future.



The Techawks scored a total of 487 for their opponents, but in spite of the 22 point difference they came out with a slight edge of eight wins against seven losses.

Swanson, Wagner, Henriksen, Musso, Grabicka, Janicek, Kubicka, Brown and Sheehan, are a few of the promising men who will be led by co-captains O'Brien and O'Connell, coached by Grant Stenger and managed by F. Widell.

## Armour Riflers Lose to Wheaton

Last week the Armour Tech rifle team lost to Wheaton by the score of 1254 to 1225. The match, fired in three positions, prone, kneeling, and standing, was held at Wheaton on their well designed range. The team has been handicapped all season by owning only two rifles for the use of ten men, and this becomes very marked at shoulder-to-shoulder matches, where there is insufficient time to resight the gun for each individual. Some of the team's shattered nerves were blamed on the way "Butch" Miller, the demon driver, drove through the fog on the way to Wheaton. The return match has been arranged to be held at 100 yards at Fort Sheridan on Saturday, March 27.

All prospective members of the Rifle Club are invited to come down any time this week to meet the members and to see the range.

## JUNIORS CAPTURE INTERCLASS TRACK, SCORE 49 POINTS

In a closed interclass meet for the track team, held last Friday afternoon, Armour junior trackmen forged through with 49 points against their nearest competitors, the sophomores, who gained 29 tallies. Dunbar took high honors with eleven points, and Faust tied Rothenberg for second with ten points.

Dunbar opened the meet by winning the 60 yard dash in six and seven-tenths seconds, followed closely by Neuert and Rothenberg. Faust took his first five points by winning the mile being closely tagged by Opila, a freshman, who came in a second later. Ryan ran a speedy 440, to come in ahead of two Chicago men and Deuter. In the shot put event Vandekieft heaved the pill over forty feet to win over Simeon and Dunbar respectively, both of the latter making tosses around thirty feet.

Rothenberg was first to break through the tape in the 70 yard high hurdle event, beating out Parker and Dixon. Faust came in first in another long run, the two mile event, winning over Dennis by about twenty yards. Deuter took the 880 yard event, coming in ahead of Opila by fourteen seconds. Dunbar snatched the low hurdle even in 8.7 seconds, with a small half foot margin over Rothenberg. Neuert was third by about ten feet.

Dixon and Braun tied in the pole vault by crossing the bar at ten feet. Simeon and Vandekieft tied for first in the high jump, both of them sailing over the bar at five feet seven. Rothenberg gained his tenth tally with a third in this event.

### SUMMARIES

60 yard dash—Won by Dunbar (Jr.) Neuert (Jr.) second, Rothenberg (S.) third. Time—0:06.7.  
One mile run—Won by Faust (Jr.) Opila (F.) second. Time—5:02.4.  
440 yard run—Won by Ryan (S.) Deuter (Jr.) second. Time—0:54.5.  
Shot put—Won by Vandekieft (S.) Simeon (Jr.) second, Dunbar (Jr.) third. Distance—49 ft. 7.5 in.  
70 yard high hurdle—Won by Rothenberg (S.) Parker (Jr.) second, Dixon (S.) third. Time—0:10.2.  
Two mile run—Won by Faust (Jr.) Dennis (S.) second, Bodnar (Jr.) third. Time—13:20.3.  
880 yard run—Won by Deuter (Jr.) Opila (F.) second. Time—2:13.8.  
70 yard low hurdle—Won by Dunbar (Jr.) Rothenberg (S.) second, Neuert (Jr.) third. Time—0:08.7.  
Pole vault—Won by Braun (Jr.) and Dixon (S.) Parker (Jr.) third. Height—10 feet.  
High jump—Won by Simeon (Jr.) and Vandekieft (S.) Rothenberg (S.) third. Height—5 feet 7 inches.

## Frosh Cagers Hand Loyola 29-24 Defeat

After trampling over the North Central frosh a week ago last Saturday, the Armour Tech frosh quintet added another scalp to their string of victories when they defeated a tough Loyola freshman squad by a score of 29-24 at Loyola.

The Tech men were handicapped at the outset of the game when Budd Kubicka, regular center, hurt his ankle in the first few seconds of play. Armour, however, drew first blood on a long shot by Scherer and a free throw by Norkus. Scherer duplicated his first shot with another which touched neither backboard or rim. The Loyola squad promptly awoke and jumped into the lead on a series of baskets. The Armourites were slightly bewildered at this time by an unconventional style of zone defense. As the half ended, Armour was on the tail end of a 12-10 score.

During the second half, the frosh broke through time and again to score on their "pet" plays, which they also used to advantage against Norkus. Central last week. A scoring spree staged by Norkus, Weber and Scherer put the game "in the bag." Sherer and Gerwig also did some nice ball handling in their parts as guards.

On Tuesday of this week, the frosh will play Fox Secretarial College at 62nd and Normal, in a return engagement. To date the freshmen have defeated North Central and Loyola, losing to Fox, De Paul, and De La Salle.

## Tech Grapplers Bow to Wheaton

Inspired by a wildly cheering crowd of about 300 students, Wheaton matmen downed the Tech grapplers by a score of 31-3 on Wednesday, Feb. 24, in the Wheaton gym. Coach Weissman attributes the overwhelming defeat to the inspiration afforded the Wheaton men by the rooting. In a previous match this year Armour came out on the long end of the score. Popper starred for Armour by preventing a shut out with the three points he scored by winning on time.

### Dunne Loses to Hess

Dunne's bout in the 135 pound class was a complete upset since Jim had lost only one bout previously. He had downed his man quickly and seemed to be having the upper hand, but a wrist lock put him into trouble several times. After over nine minutes of fast wrestling Hess took advantage of an opening and pinned Dunne.

Popper, wrestling at 155 lbs., exhibited some of the temperament usually associated with red hair, and wrestled fiercely for almost ten minutes before he could get his man into position for a pin. Undue care by the referee saved the man from being pinned as the bell rang for the end of the time period. The bout went to Popper with a two minute time advantage.

### Merritt Wins at 165

Captain Kreml suffered his first defeat of the season at the hands of



The date of the Armour Tech Relays has been set for Saturday evening, March 20. Since this is the outstanding sporting event at Armour, everybody should make it a point to set aside this date now, and to attend. It will be a well worth while event to witness, since it will bring together many outstanding track men of the middle west. Everything is free too, to Armour students, since student passes will as usual be honored at the gate.

A good example of what effect a big crowd has on a team was shown at the Armour-Wheaton wrestling matches, at the latter's gym in Wheaton last Wednesday. The meet was

Merritt, 165 pound Little Nineteen champ. Kreml held his own for the first part of his bout but got into trouble later and was barely able to save himself from being pinned four times in close succession. He finally lost on time.

Tullgren wrestled a beautiful bout in spite of a fractured cartilage in the collar bone, sustained near the middle of the match. The injury is likely to keep him out of the line-up for the remainder of the season, and since Ralph was a consistent point winner, the loss will be keenly felt.

won easily by the home squad, who were cheered on by some three hundred rooters. In their previous encounter with the Tech team, the Wheatonites had been defeated.

We hope that the injury Ralph Tullgren sustained in the Wheaton meet is not serious. Ralph has turned in some fine performances this season, since he began wrestling in his own weight class, and will be missed by the team if he is out the remainder of the season.

Having finished competition in the Golden Gloves tournament, the boxing squad is preparing to go to work on collegiate foes. Sometime this week they travel out to Culver to take on the latter's team.

Although a bit belated we should like to mention that the swimming squad turned in one of its most interesting victories against Loyola at the latter's pool on Monday, March 22. It was one of those meets that was always in the balance, not being won until the final event was run off. The Tech squad came through in the relay final to nose out their opponents 40 to 35.

Although no definite date has been set for the start of baseball practice, we expect any day now to see the lads up in the gym getting their old arms loosened up. Judging from the large number that showed up for the first meeting, coach Kraft should have little trouble in the way of batteries for the coming season.

## Meeting of Fencers To Be On Thursday

Next Thursday afternoon, the Armour fencing club will hold a business meeting to discuss several problems which have been bothering them for quite some time.

The meeting will be held in D-Mission, and one of the problems that will be up for discussion will be that of maintenance of equipment that has already been secured for the use of club members. Also, the possibility of raising money in some way or other so that new equipment may be added into. At the present time membership has reached twenty-two, but the club is still anxious to have any new members who are interested in fencing.

Our fencing team is still making headway despite the many obstacles which are facing them, boasting at the present a membership of twenty-two.

Having had all last week to practice, the inter-fraternity basketball tourney entries should swing into action soon. A schedule has been arranged for them and placed on the bulletin board, and this week ought to bring forth some results.

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THE FINEST TOBACCOS—  
"THE CREAM OF THE CROP"

## A Light Smoke "It's Toasted"—Your Throat Protection

AGAINST IRRITATION—AGAINST COUGH



## Coach Stenger's First Season Gives Cagers Eight Victories

Total of Season Is Eight Wins  
Against Seven Losses

Under the direction of their new coach, Grant Stenger, the Techawk five completed a heavy schedule of fifteen games, duplicating last year's record of eight victories against seven defeats. Although not a spectacular season, the showing was unusually good in the face of a change of coaching staffs, and the loss of Capt. Heike for the last four games. The team played steady and consistent ball, with scores ranging from 39 points against both Wheaton and Macomb, to a 21 point trouncing by their traditional jinx, North Central, to close the season. Other than the last mentioned whitewashing, the quintet suffered no appreciable defeats other than a 12 point upset by Beloit College. Of their seven defeats, five were less than nine point losses. Six of the eight wins were made on the home floor, showing an increased school spirit in following the team.

### Techawks Conquer De Kalb

The team started well, nosing out a snappy DeKalb Teachers five, 29-25. Evidence of Grant Stenger's new coaching technique was apparent in the team's cooperative playing. Playing man to man defense, the Techmen put up a formidable blockade, destroying the set-up aspirations of their opponents. Unused to other than the second team's opposition, the Tech offensive was slow, but deliberate, the local boys having control of the situation throughout, in spite of the narrow winning margin.

Repeating last year's visit, Arkansas State again met defeat, to the score of 37-28. Capt. Heike took

scoring honors with six buckets and three free tosses, while Merz and O'Brien netted nine and eight points apiece. An unexpected Lake Forest triumph, on their first out of town game set the Techawk off to a string of three defeats. In spite of Heike's sixteen points, an early lead gave Lake Forest a large edge. Armour caught up to the North Shore quintet on a dizzy splurge of shooting by O'Brien and Merz, but failing to drop a free throw lost a chance to tie it at 32 all, in the last minute of play. The Beloit tilt was an unexpected setback, but the playing of the Golden, and the engineers' seeming lack of initiative found them at the short end of a 46-34 tally.

### Chicago Rallies Over Armour

Things looked gloomy for the men in the Midway when Armour led the University of Chicago 19-17 at half time. However, superior height and a well staged comeback gave the Maroon quintet a 33-28 victory, after a stubborn defense by the Techawks, cheered on by a large crowd of students, alumnae and parents attending the first annual Dad's Night.

Armour opened the new year by reaping revenge on both Lake Forest and Beloit for their defeats met earlier in the season. They ran over Lake Forest 36-27, with O'Brien chalking up 13 points and Henrikson 11. Beloit took a decided whipping on their own floor, with every Armour man scoring one or more baskets. The visit to Macomb ended in a defeat only after a hectic and exciting battle. Armour was greatly disadvantaged with the elimina-

tion of four men on personal fouls, after they had caught the leaders and tied them up midway in the second half.

The opening minutes of the tilt with Wheaton promised a bang up basketball game, but the Tech five gradually pulled away, Merz dropping six buckets and O'Brien four. At no time did Wheaton even threaten the lead after the first half.

The Michigan State Normal quintet of Ypsilanti was continually on the losing end of a 31-22 score on the Armour floor, and bowed again to the black and yellow a week later on their own floor, 38-33 in a return engagement. Captain Heike came down with a case of flu midway in the eastern trip and was out for the remainder of the season. Detroit University piled up an early lead of seventeen points at half time. After O'Brien was eliminated on personals, a short but futile Tech rally left them trailing 40-30 at the whistle.

### Cardinal Game Tops Card

The Techawks played their most brilliant game of the season against their traditional North Central foes. Both teams were exceptionally cautious on the defensive, and consequently had to rely on long shots for scoring. Merz dropped five long ones, and O'Brien hooped three. Armour led at the half, 17-15. Schifler's deadly long shots counted heavily in the Cardinals' scoring. With seconds to play and trailing by one point, Wagner made a final try at victory from mid-floor, but his shot caught the rim and rebounded as the whistle blew.

A rough scramble with Macomb, ending in 39-30 victory, squared up the defeat suffered earlier in the season at the hands of the Western State Teachers. The season's finale was a decided denouement, as North Central piled away a 30 point lead in an uneven 51-21 duel, surprising both themselves and their opponents with their expert shooting.

## Hougen Describes Chemical Failures

"Early Failures in Chemical Engineering" was presented to the members of the A. I. Ch. E. last Friday in Science Hall by Dr. O. A. Hougen who recently joined the Armour faculty. Dr. Hougen is a member of the department of chemical engineering and will be connected with the Armour Research Foundation.

In his talk the speaker discussed the construction and operation of a nitrogen fixation plant that took place during the World War. Many of the mistakes in its construction and maintenance were revealed to the students who attended the lecture.

Following this, Professor Harry McCormack was called upon to present Sigmund J. Moleculeski with the award merited by the outstanding sophomore in the chemical engineering option. This award, which consists of a medal and a document of recognition was made for scholastic achievements. Moleculeski was recently selected as the outstanding sophomore in the organic chemistry laboratory for which achievement he was presented with a copy of the "Handbook of Chemistry and Physics."

## Plant Eng.—

(Continued from page one)

These weekly conferences are the first of their type to be conducted in Chicago. The main idea of the meetings is to cooperate with the mature executive beyond the need of classroom rule. Included among the sixty to eighty-five men who attend each meeting are vice-presidents, factory managers, purchasing agents, comptrollers, plant engineers, and factory executives. Each represented company has a membership in the class which entitles it to send its rep-

## Electric Controllers Subject of Lecture

"Electric Controllers in Industry," was the subject of a lecture delivered by Mr. A. A. Piper, district manager of the Electric Controller and Manufacturing Company, at the last meeting of the Armour branch of the A. I. E. E.

Following his introduction by Chairman Holmes, Mr. Piper explained the construction and operation of several different types of starters, and pointed out the manner in which starters differ from controllers. A starter merely acts to get the motor in operation, while a controller may vary the speed, stop, or reverse the unit.

representatives to each meeting.

All the discussion and speeches are printed in a weekly report which is sent to all the membership companies. The meetings are opened at 7:30 after the members have dined together at the hotel, and closes about 9 o'clock. Professor Dutton said that expressions of appreciation have been received by many of the participating concerns.

The following companies own memberships in the class: American Steel Foundries, Armour and Co., Bauer and Black, E. J. Brach, Central Steel and Wire Co., Chain Belt Co., Chicago Bridge and Iron Works, Chicago Extruded Metals Co., Chicago Flexible Shaft Co., Chicago Rapid Transit Co., Corn Products Refining Co.

Crane Co., Economy Fuse and Mfg. Co., Electric Household Utilities Corp., Felt and Tarrant Mfg. Co., Foote Bros. Gear and Machine Corp., Illinois Bell Telephone Co.

Inland Steel Co., International Harvester Co., W. A. Jones Foundry and Machine Co., Link Belt Co., Miehle Printing Press and Mfg. Co., Milcor Steel Co., Pullman Standard Car, Reliance Mfg. Co., Republic Flow Meter Co., Revere Copper and Brass, Inc.

## A.I.Ch.E. Visits Inland Company

Tire-making in its various steps was investigated by the Senior Chemicals during an inspection trip to the Inland Tire Company Plant under the guidance of Prof. McCormack and Dr. Hougen last Thursday, February 25.

Beginning with the mixing operation, the plant routine was traced through the various steps of tire-making to the finished tires ready for shipping. In the first operation, that of mixing the waste sheets, raw rubber was mixed with sulphur, carbon black and other materials. The stock was then rolled into sheets on mills to final size.

### View Rolling Operations

Following mixing and rolling operations tire production of parts was inspected. One department prepared sheets of rubber with cord between the sheets, another prepared fine wire covered with rubber for the backbone of the tire. The key process, that of tire building, was essentially a hand operation. Passenger tires were prepared on drums over which wires covered with square threaded cord was placed. Next the obliquely-threaded cord sheets were placed over the wires and successive sheets were placed with thread in opposite directions to give the "cord tire" its strength.

### Vulcanization is Final Step

Over the cord sheets went a "cushion," this being a sheet of pure gum to absorb shocks. Finally the thick rubber piece on which treads are molded was put on, and for certain tires side walls were added.

The final operation was vulcanization or curing. Assembled tires were placed in molds and twenty molds placed in a single vulcanizer. The molds were held under a hydraulic pressure of 1800 pounds per square inch, and under steam at 40 pounds pressure for one hour to accomplish curing.

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