



By Paul Schultz

THE LAST WEEK has again given us an excellent example of the strained relations between the United States and Japan. Military susceptibility, which seems more acute as well as more influential in Japan than in any other country, protests the plans of American aviation enterprise for establishing air lines over the Pacific. The Japanese press is making a great to-do about it and an anonymous authority is quoted as alleging that "this project can be regarded as military preparations in the guise of civilian enterprise." Color is given to this charge by the fact that the American navy department has given permits for the experimental planes to land on the three islands under its administration, Wake, Midway, and Guam.

OF COURSE, the American public knows the charges are unfounded, that in fact the plans for the air lines over the Pacific are only the natural expansion of our commercial aviation, which aspires to extend its services as widely as possible. Although lines have been opened to Central and South America, and it is expected there will soon be lines to Europe, Japan is the only one to conjure up the military bugaboo.

EVERY ONE REALIZES that aviation development has military potentialities everywhere. The only way to eliminate them is to eliminate aviation, or at least to place such restrictions upon it as would cripple its natural progress and deprive international commerce and communication of the great facilities possible through this form of rapid transport. That is a sacrifice we and other nations interested in aviation would not consent to make. There is not the slightest inclination in the government or people of the United States to pick a quarrel with Japan, but the distrust and unreasonable interpretations of normal American activities which Japanese leaders and the Japanese press indulge in are a deplorable factor in the relations of the two peoples, making friendly and mutually beneficial relations very difficult.

THERE IS no conflict between the major interests of Japan and the United States that would justify war, as was pointed out in a previous discussion. There is no inclination in the American government or nation toward war with Japan or any other country. On the contrary, there is on our side a full realization that war between Japan and United States would be inexcusable folly. Yet certainly the Japanese press and government are cultivating toward us a hostility which is gravely undermining the prospects of friendly relations and preparing the way for a collision sooner or later which can and should be avoided in the interest of both peoples and of the world.

Public Policy Classes to Hear Mr. H. T. Hill

Mr. Harvey T. Hill, executive vice-president of the Chicago Stock Exchange, will address the class in Public Policy (Social Science 402) on the operations and activities involved in the purchase and sale of securities. He will be assisted by Mr. Woodward, who is also connected with the exchange.

Mr. Hill, who is a graduate of the University of Pennsylvania, is an engineer by training. He has served the Illinois Chamber of Commerce as secretary.

A visit to the Chicago Stock Exchange to see its actual operation will later be arranged by the Public Policy class.

Hotchkiss Talks on Social Order

On Tuesday afternoon, March 19, President Hotchkiss delivered an address "How We Get Along Together" at an assembly of the South Side Junior College. On Wednesday the same address was given at the Wright Junior College and at the Medill Junior College.

In these addresses Dr. Hotchkiss developed some of the difficulties which individuals and small groups find in getting along together in their every day activities, and applied the lesson to be drawn from these difficulties to social, industrial, national and international affairs.

He pointed out that the abandonment of the democratic method of getting along together in favor of turning the problem over to a dictator had come chiefly in countries in which democracy had never become thoroughly established. In spite of the obvious short-comings of democracy as practiced in the United States and of our many unsolved problems, President Hotchkiss maintained that only through improvements in the democratic method, rather than through the substitution of other methods, can solutions of these problems be found.

Senior Chemicals Visit Acid Plant

After wandering around the Calumet region for an hour, thirty-five senior chemicals, accompanied by Professors McCormack and Barr, found that the object of their search, the Central Chemical Company, was "right under their nose." The company's plant is located in Calumet City and manufactures sulfuric, nitric, and hydrochloric acids. Sulfuric acid is made by the chamber process, the daily output being 160 tons. The acid is shipped in steel tank cars; since it is concentrated it does not attack the steel. Hydrochloric acid is produced by the action of sulfuric acid on sodium chloride, and gives sodium sulfate as a by-product. Much of the success of the trip was due to the presence of a competent guide, who explained fully the various details of the processes.

Finding that they had time left after inspecting the central plant, the chemicals visited a nearby gelatin plant. The gelatin is made from pigskins which are washed, fat extracted, and processed. This plant also has a large capacity, shipping most of its product to the Royal Gelatin Co.

Regular Wednesday afternoon inspection trips are being planned for the future. Trips will be made to oil refineries, cornstarch plants, and soap factories.

Pi Tau Sigma Pledges Students at Smoker

Pi Tau Sigma, honorary mechanical engineering society, held a pledging in the Truss Club rooms last Thursday night. E. P. Auler, D. E. Howell, A. M. Lane, A. H. Rice, and F. L. Smith were the pledges. Each of them had been given a problem to be solved in a week's time.

W. W. Henning's talk on "Torsional Vibrations in Automobile Crankshafts" was chosen as the best talk given at the A. S. M. E. meetings this year. He will represent Armour at the national meeting of the A. S. M. E. in Chicago, April 29. Three cash awards of fifty, twenty-five, and ten dollars will be given for the best talks at this meeting.

Fischer Will Lecture on German Scientist

Next Thursday at 10:30 a. m. Professor Hanns Fischer will deliver a lecture on Robert Mayer before the German club in F Mission. All students are invited to attend.

Robert Mayer was one of the first German scientists to determine the mechanical equivalent of heat.

Cycle Pictures to Be Taken in Gym

Athletic Groups Should Wear Uniforms

Group pictures will be taken for the 1935 Cycle on Wednesday, March 27, and Thursday, March 28. All pictures will be taken in the gymnasium, except those of the swimming team, which will be taken at the U. of C. pool. Men are requested to be dressed in regular suits or athletic award sweaters for class and organization pictures. For team groups and individual athletics pictures, men should wear regular uniforms. The schedule is as follows:

Wednesday, March 27th

- 9:00—Junior Class
- 10:00—A. A. S.
- 10:15—Sophomore Class
- 11:15—Freshman Class
- 1:15—A. S. M. E.
- 1:30—A. I. E. E.
- 1:45—W. S. E.
- 2:00—A. I. Ch. E.
- 2:15—F. P. E. S.
- 2:30—Wrestling Squad
- 2:45—Wrestling Team, Individuals
- 3:00—Wrestling Tournament Champs
- 3:15—Boxing Squad
- 3:30—Boxing Team, Individuals
- 3:45—Boxing Tournament Champs
- 4:45—Swimming Squad at U. of C.
- 5:00—Swimming Team, Individuals

Thursday, March 28th

- 9:00—Campus Club
- 9:15—Truss Club
- 9:30—Rifle Club
- 9:45—Fencing Club
- 10:00—Chess Club
- 10:15—Radio Club
- 10:30—Student Publications Advisory Committee
- 10:40—Armour Players
- 10:50—Senior Social Committee
- 11:00—Junior Social Committee
- 11:10—Frosh-Soph Social Committee
- 11:20—Honor A Society
- 11:30—Indoor Track Squad
- 11:45—Interclass Track Champs, Freshmen
- 12:00—Intramural Softball Champs, Jr. E. E.
- 12:15—Basketball Team, Individuals

Men are excused from their classes only at times they are to be in pictures. To avoid confusion, they are asked to be prompt, and to leave the gym when their groups have been photographed.

Spring Concert May Be Given Downtown

This year the Armour Tech Musical Clubs are contemplating a change of location for their annual Spring Concert. In the past, the Spring Concert has been held in the Armour Mission together with the Fraternity Sing. It is quite certain that the fraternities will consent to hold their Sing in the new hall, so that the traditional Fraternity Sing during Junior Week will not be lost.

To effect this change, however, it will be necessary to secure a pledge of support from a sufficient number of the students. In the past two years the Musical Clubs have assisted the publicity of Armour materially, and the students are now given an opportunity to show their appreciation.

The club officers are now planning to publicize this concert by announcements at class meetings, and through the aid of posters placed at strategic points.

Sophomores Pledged by Alpha Chi Sigma

Alpha Chi Sigma, professional chemical fraternity, announces the pledging on March 18 of the following men: J. Haas, F. Harman, J. Kahles, W. Schreiber, P. Schultz, B. Wilhelm.

The fraternity held a smoker on Wednesday, March 18 at the Beta Psi house which was well attended by the alumni members, several of whom are now doing research work at Armour, as well as the prospective pledges.

Scherger to Speak at Chicago W. S. E.

Dr. George L. Scherger will deliver an address at the next meeting of the Western Society of Engineers to be held at the Engineering Building on Thursday evening, March 28, at 7:30 p. m. Dr. Scherger will discuss the topic "What Is Wrong with the World?" To this meeting the students of the various engineering schools in the city, including Armour Institute, Northwestern University, Lewis Institute and Chicago Tech, are being specially invited. Regarding the forthcoming meeting Mr. Setterberg said, "It would be well worth while for all students to hear Dr. Scherger and especially should the Freshmen make the acquaintance of this man, who has done much towards developing the cultural side of man in the city of Chicago."

"Nomographs" Topic of Math Club's Talk

Equations that would ordinarily require four or more dimensional space for their representation were shown to be easily charted on two dimensional papers at the Friday meeting of the mathematics club when Mr. William W. Gorsline of Wright Junior College spoke on Nomographs.

Instead of using two coordinate axes to graph the values of the unknowns of an equation, nomography uses parallel or curved lines which, in general, arise from an axis perpendicular to the set. In reading values from this form of chart it is necessary only to lay a straight edge across corresponding values of the known variables, the unknown being found at the intersection with the last line.

Promotions Awarded Two Armour Alumni

Two Armour alumni, Leonard Peterson and Arnold Grasse, were selected to the post of secretary and assistant secretary of the Home Insurance Company of New York, it was announced by the board of directors recently.

Mr. Peterson started his career as inspector with the Michigan Inspection Bureau. In 1920 he joined the Home Insurance Company of New York and ten years later became divisional underwriter for the western division.

Mr. Grasse entered the business as special agent in the Chicago office in 1919.

Carpenter Will Talk to Mining Engineers

Professor A. H. Carpenter, member of the American Institute of Mining and Metallurgical Engineers, will address that organization on April 17 at the Engineers' Club.

This being a non-technical meeting, his topic will be "Historical Geology Applied to the Neighboring Planets." The planet Mars will be discussed in particular.

THIS WEEK

Tuesday, March 26 to Monday, April 1

Tuesday

Meeting of Editorial Staff in News Office; 12:30.
Orchestra Practice; Assembly Hall; 5:00 P. M.

Thursday

German Club; F Mission; 10:30 A. M.
Chess Club; 4th Floor Chapin; 12:20 P. M.
Glee Club; Assembly Hall; 5:00 P. M.
Dr. Scherger at W. S. E.; Engineering Bldg.; 7:30 P. M.

Friday

Society meetings; 10:30.
Wrestling; Wright Jr. Coll. at Armour; 3:30 P. M.
Entries for Softball Tourney accepted.

Seniors who wish class jewelry must have their orders in the hands of the committee by Friday, March 29. The last order will be sent in at that time.

All senior students who expect to graduate this June must see the Personnel officer before April 1.

All students who are interested in working on the Armour Cycle Advertising Staff get in touch with R. M. Paulsen, Cycle advertising manager. 20 per cent commission will be allowed on all ads.

Report Received on Physics Examination

According to a preliminary report on the mechanics section of the national physics examination given in seventy-eight colleges throughout the country last year, Armour students made a mean score of 27, as compared with the national mean of 18 and a national average among engineering colleges of 20.5.

Approximately 175 sophomores (and some present juniors) in the general physics course at Armour took the examination. The test in mechanics was of the objective type with fifty-two questions to be answered in an hour.

Of the seventy-eight colleges whose reports are in, there were only four schools which ranked higher than Armour.

These tests are experimental studies, but seem to have a real plan in marking the student.

Morozoff Elected to Lead Tech Rifle Club

New officers were elected at the meeting of the Armour Tech Rifle club, last Wednesday, March 20. The men chosen were J. Morozoff, president; E. Auler, treasurer; and H. McDaniel, captain-manager. Election was practically unanimous. The men took office immediately after an informal meeting with the old officers.

J. H. De Boo, W. W. Henning, and M. J. Fetter, the previous officers, spoke to the members, asking that they make use of the club room—for card games, informal gatherings and even suggested that the members eat their lunches there. New men will be needed for the team next year, as most of the present men will be graduating this June.

Location Chosen for Interhonorary Dance

In order to facilitate the participation of alumni, the interhonorary council has changed the date of the interhonorary dance to April 27. The date had been previously set for, and announced as Friday, April 26.

The change was made to Saturday with the belief that more alumni members would be able to be present on that night. The dance will be staged at the Allerton Hotel.

Twelve Men Pledged by Athletic Honorary

Twelve men were pledged by Honor "A" last Friday morning at 10:30 in the Tau Beta Pi rooms in reward for their excellent sports records.

Joseph Bartusek, Louis Biegler, Ken Carroll, William Concolino, Robert Esbensen, Eugene Heike, Robert Hella, Robert Merz, Daniel Moore, Donald Neal, Robert Schmidt, and Hermon Sumner were the athletes who took the pledge.

Chi Epsilon Pledges Four New Members

Last Tuesday night, Chi Epsilon, honorary civil engineering fraternity, pledged four men, John Galandak, John Larson, Theodore Ramotowski, and Gordon Zwissler. Pledging took place in the rooms of the Campus Club. The period of pledging will probably extend about one month before their initiation.

STUDENT AVERAGES PREPARED FOR NEW SYSTEM OF RATING

Juniors Lead All Classes With Average of 1.82

MACI LEADS SENIORS

Scholastic standings of the members of the senior, junior, sophomore, and freshman classes of the College of Engineering and Architecture for the first semester of the 1934-35 school year have been released by the Registrar's office.

The average of the entire undergraduate body, totaling 743 students for the semester, is 1.59.

The individual class averages are as follows:

The Senior Class	1.79
The Junior Class	1.82
The Sophomore Class	1.52
The Freshman Class	1.31

Raymond C. Maci, whose average is 2.85, leads the senior class. He has led the class of '35 for the last three years.

The student with the highest average in the junior class is Russell R. Johnson, who has led his class for three years. In the past semester, his average was 2.97.

William B. Graupner, with an average of 2.94, led the sophomore class. He also was highest in his freshman year.

In the freshman class there are five students who hold jointly the highest average which is 2.88. They are B. W. Gamson, W. M. Kiefer, W. R. Marshall, L. Parker, and E. F. Wagner.

Departments

(Freshman students not included)	
Mechanical Engineering	1.65
Electrical Engineering	1.72
Civil Engineering	1.65
Chemical Engineering	1.74
Fire Protection Engineering	1.94
Architecture	1.42
Engineering Science	2.08

Honorary Fraternities

The following groups are arranged according to the seniority of their establishment at Armour Institute.

(Scholastic)

Tau Beta Pi	2.48
Pi Tau Sigma	2.31
Eta Kappa Nu	2.45
Chi Epsilon	2.33
Phi Lambda Upsilon	2.54
Salamander	2.45

(Non Scholastic)

Pi Nu Epsilon	1.80
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Honor Society

Sphinx	2.32
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(Continued on page 3)

Sophs Take Trip to See Museum

Perpetual motion may fool fifty thousand college students, but to an Armourite it is as simple as a cubic equation. Most of the sophomores who visited the physics museum of the University of Chicago found that a dark spot on the wall led to an air inlet which drove the "delicately poised movement" seemingly moving forever without external propulsion.

Arranged by Professor Thompson, the inspection trip gave the physics students a chance to try the apparatus, much of which was exhibited at the Century of Progress. Among the most popular exhibits were the experiment that measured the mass of the earth and the replica of Professor Michelson's apparatus to measure the velocity of light. Another point at which the engineering training of the Armourites showed to advantage was in the Magdeburg vacuum hemispheres. Although two eight-horse teams were originally used to show that the bulbs could not be pulled apart, the mechanical training of the sophomores enabled them to show that one team and a brick wall would have resulted in the same force on the apparatus.

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No War In Sight

In spite of the amazing increase in talk about war that has characterized the daily press recently, we still have hopes of being graduated from college on time and going to work at a peaceful, constructive occupation in a peaceful world.

The world today is, it is true, armed to a greater extent than ever before in a time of peace, but it is inconceivable that its arms will ever be used. Predictions as to what another war would be like are myriad, probably none is exactly right, but everyone must realize that, whatever the details, it would be too terrible to be borne. Under the impetus of every great war in recent history new weapons, more destructive than any that have gone before, have been developed, and in each successive war the progress has been hugely greater. The resources of science are now so great that, should it turn its attention to war, it would produce a state of affairs beyond all human endurance.

Those who control the world's great armies are not going to push their people too far; they will remember that the last war ended in revolution not only for Germany but for Russia, one of the Allies. The governments of the world are already jittery about the Red menace; even in the United States, where it is probably less of a menace than anywhere, it is causing concern. No dictatorship that owes its power to its ability to keep its people fed and active can afford to chance the discontent and suffering a modern war would bring.

The idea that wars are man's heritage and are unavoidable is the most insidious thing to be dealt with in the situation now. Prior to 1914 there were many who believed that a war now and then is a good thing for a nation; they may be around still, but they're not being heard from very much. War is now universally abhorred. The trouble is, some people seem to think that, dislike them as we will, we're bound to have them any way. If this were true, the human race would not have much longer to live; it would soon destroy itself. But it is not true. The problem of human relations is as capable of solution as that of the prevention of small-pox, and far more pressing. Man's power to think hasn't failed him yet, and it won't for a long time to come.

A few Armour students will perhaps remember a recent occasion when they were told that war is inevitable, and were warned to get ready to fight. Be reassured; there is as yet no reason to think of that occasion as prophetic.

"The Slipstick"

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

*I'd like to be a college boy,
He lives a life of ease,
For even when he graduates
He does it by degrees.*

A Good Crop

A young man was showing his mother around the college and he said, "Over there are the famous polo fields." His mother, trying to make her son believe she understood everything said: "Is there anything finer than those waving fields of polo!"

Positive Proof

It is easy to identify the owner of the car; he is the one who, after you pull the door shut, always opens it again and slams it harder.

THE SIMPLE LIFE

Senior: How are you getting along at home since your mother's been away?
Junior: Oh, life is much less complicated. I can now put my socks on from either end.

We think Technocracy would fit into the idea of things at college. Professor could say thus: "Now men, don't forget: ten eggs of study tonight."

Soph: "I'm always tired on the first of April."
Frosh: "Why?"
Soph: "Who wouldn't be after a March of 31 days?"

BLIND DATE

First Maiden: "Does he belong to the 400?"
Second Maiden: "Yes, but he's just one of the ciphers."
W. G.

Fraternity Notes

BETA PSI

One of the biggest and best dances of the year was held at the house last Saturday evening. A lively orchestra provided danceable and tuneful rhythms. Many alumni were present, even "Butch" Even, as well as Joe Kubicka, the all time "chemiker". It was even Beta than usual and there were no Psi's of regret.

A ping-pong match is scheduled for this week with Sigma Alpha Mu, and our cheering section is unlimbering sore tonsils in preparation. Roy (call me Foghorn) Wittekindt is in topnotch form.

Thomas Speer motored to Champaign last week-end to see the state basketball tournament.

TRIANGLE

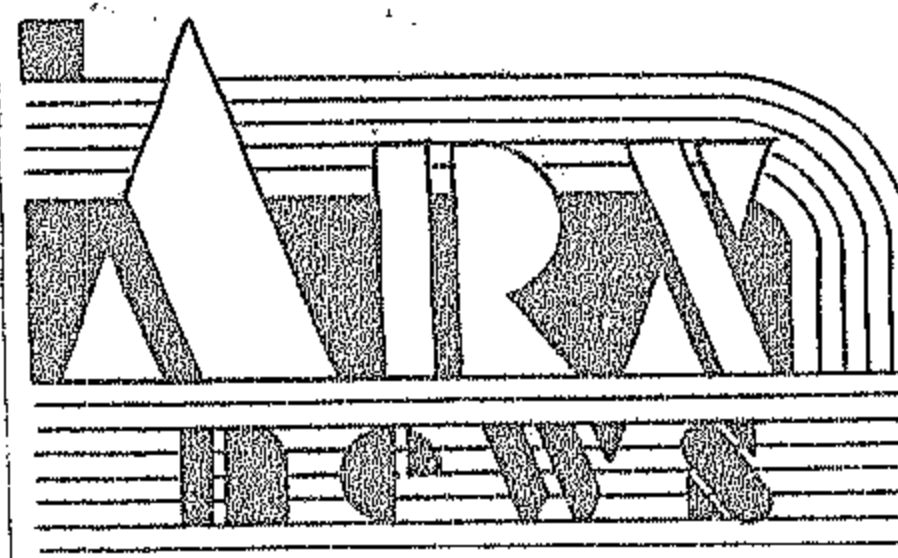
Last Saturday night we held a dance, the details of which were planned by the new initiates. It turned out to be very enjoyable. Brothers Christenson and Vanderveelde and their wives were the chaperones.

Brother Schmidt has been pledged to Honor "A". Congratulations, Bob.

PHI KAPPA SIGMA

Friday night, March 22, a splash party was held at the Medinah Michigan Avenue Club. A goodly number of the brothers and their better halves spent an enjoyable evening splashing away their worries. After the swim they all went back to the house and danced.

Last week the ping-pong team broke even with the Delts in two



No less than nineteen charcoal welders rated mentions in the last life judgment. And if that's not some kind of a record or other, we never saw a record. But how to explain it! It was either that the juniors were just that good, or else it was a little gift from the jury.

Here are two sure signs of Spring; Dick LISCHER realized that the balmy weather would be too warm for that crop of hair, so he upped and had a HAIRCUT; and

of the three games to be played in the tournament. The decisive game is to be played on the neutral tables belonging to the Sigma Alpha Mu boys, during this week.

RHO DELTA RHO

The house-warming party held on Saturday, March 23, will long be remembered in the annals of Rho Delta Rho. The new house at 3333 South Michigan was officially "warmed" by the fellows, their girl friends and alumni. Besides the dancing and refreshments, movies were shown as a special treat.

With the housewarming party a success, the members are looking forward to the big affair of the year, the annual dinner dance. As yet, neither orchestra nor hotel has been selected.

furthermore "Hitler" WANDMAYER shaved off his soup-strainer and remarked that when it began to itch he was sure that Spring was just around the corner.

Why do you suppose Frosh URBAIN isolates himself from the rest of his class when riding from ARMOUR to the Art Institute. Or is it vice-versa?

MR. REED generally catches the seniors when they're napping. Last week he made the rounds and found the boys in a very heated discussion about the forthcoming senior dance. The fact that it was the first day of Spring might legitimately serve as an excuse to turn one's fancy from Research Hospitals to thoughts of... well... er.

A particular question in Ed MERRILL'S Building Law quiz created quite a bit of comment. To make it perfectly clear and remove all cause for any possible ambiguity he very obligingly proceeded to restate the question. To which he added, "Well, I guess that practically answers it for you." It was just about that time that Matt SUMNER came to life and retorted, "Will you repeat it then? And a little slower, please."

Another ARX dance is in the making fellows. Just where or when, we are not prepared to say. As a matter of fact we've got our fingers crossed hoping it goes through.

At this writing we're just a day too early for the results of the Illuminating Engineering Society Prize. We'll have them for you next week, good, bad, or indifferent.

EAGLE EYE.

WHEN YOU FEEL "FED UP"...

GET A LIFT WITH A CAMEL!

"I'M AN ENGINEER—working on the San Francisco-Oakland Bridge. Before that, six years in the army taught me the value of smoking a Camel when 'below par.' I smoke all the Camels I want, too, without getting jumpy nerves. And Camels are mild and gentle to the throat." (Signed) RALPH A. TUDOR

"I'M SPECIALIZING IN HISTORY—French and English history," says Laurence Brewer. "In addition, I have a job in the library for four hours a day, and I also work up data and material for the debating team. I'll tell you—it keeps me going hard. I've got more work than time. When I'm hard pressed, smoking Camels is not only a pleasure—it's a help, too. For when I feel 'fed up'—and it seems as though my energy were all used up—I smoke a Camel and get a lift in energy. Camels have a swell, rich flavor; due, I presume, to the use of choicer tobaccos. I smoke as many as I want to—for Camels don't ruffle my nerves." (Signed) LAURENCE ALFRED BREWER, '37

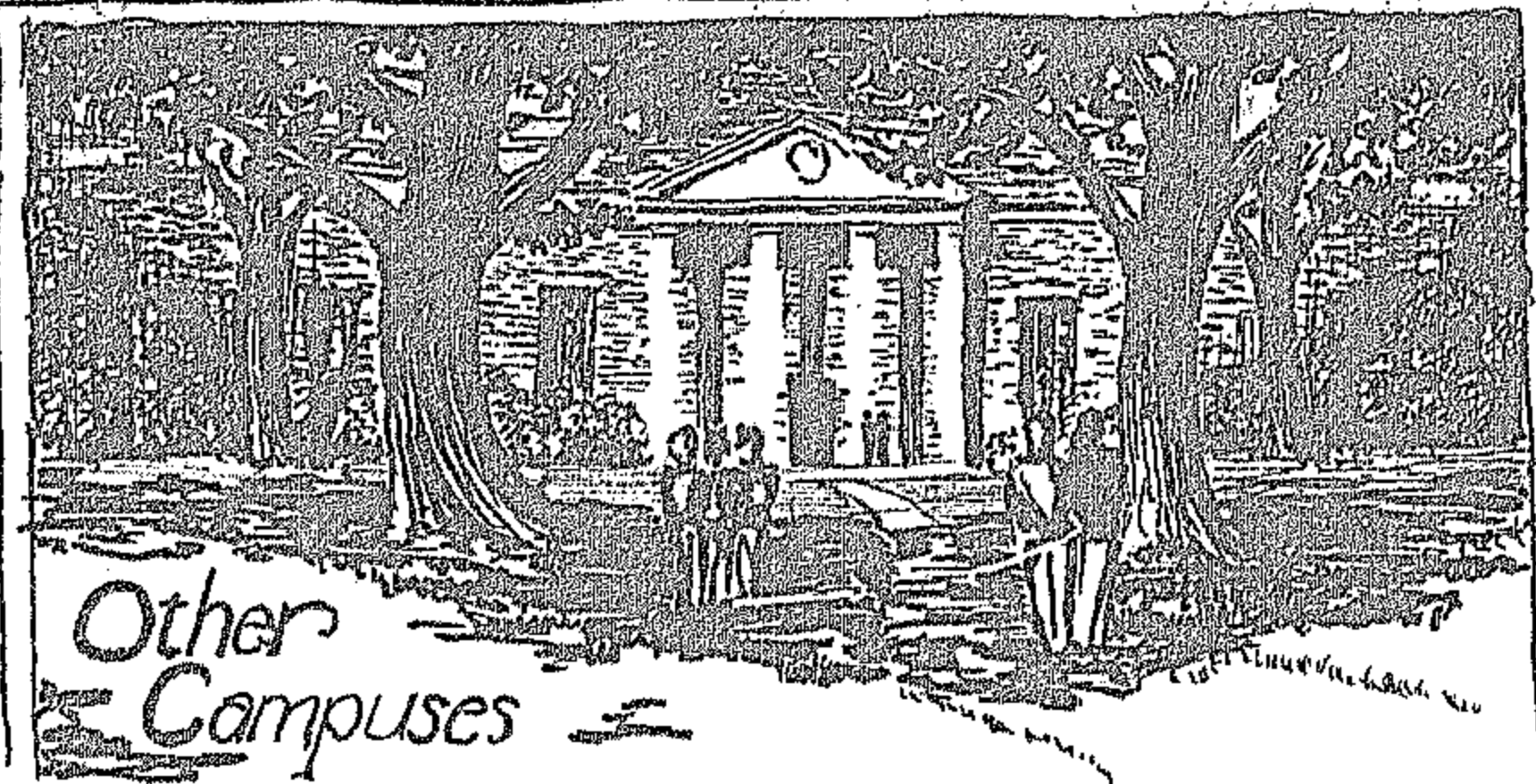
"EVERY WOMAN prefers a milder cigarette. For years I've been smoking Camels because they are mild—and at the same time have a delightful rich flavor. I know these things don't just happen in a cigarette. There must be a reason, and I think it lies in the fact that Camels use finer tobaccos." (Signed) HELENE BRADSHAW

MILLIONS MORE FOR YOUR ENJOYMENT!

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

Signed R. J. REYNOLDS TOBACCO COMPANY
Winston-Salem, N. C.

CAMEL'S COSTLIER TOBACCOS NEVER GET ON YOUR NERVES!



Other Campuses

By Orville H. Hampton

Discarded Notre Dame university football suits are used by the Black Sheep football team at Sing Sing.

Eskimo footwear is popular with co-eds at the Alaska Agricultural college at College, Alaska. The footwear is called "mukluks."

Students at DePauw university are required to have a driving permit before they can drive an automobile about the campus. A driving permit is issued only when the car is absolutely necessary. Seventy-two permits were issued for use during the fall semester.

"Autos waste the time of the student," stated Dean L. H. Dirke recently. "They tempt the student too far from the campus."

The first American institution of higher learning to offer a course in medical instruction was Columbia university. The first lectures in this course were given on Nov. 9, 1767.

Dr. L. Don Leet, director of the Harvard university seismograph station, has proven by his tests that the earth's crust is never still, contrary to all ordinary evidence.

Taxes amounting to \$60,000 will be collected from De Pauw university fraternity and sorority houses during the next fifteen years to defray the cost of the new sewage disposal plant built by the city.

Does it lower your opinion of her to see a girl smoke? This question was voted upon recently by fifty male

students at Milwaukee State Teachers college. The answers were: affirmative, 35; negative, 15. The voters discussed the question at considerable length in voting with regard to questions of daintiness, over-indulgence, comradeship, and the proper time and place for smoking.

A co-ed at Syracuse, New York, now has the distinction of having had a professor kiss her in class. The young lady was recently experimented upon to prove that sudden emotion can be measured by perspiration on the hands.

She was blindfolded and after smelling a number of substances with varied results the professor kissed her. Reports have it that the needle on the recording instrument jumped all around for some time before the experiment could go on.

Tunnel Inspected by Senior Civils

The senior civils went on an inspection trip last week that was supposed to be exclusively confined to seniors, but one lone freshman sneaked in. Professor Stevens was in charge of the trip which was arranged through the efforts of S. Bernstein.

The new water system is being constructed from a shaft sunk at Lake Street and Central park Avenue. There are three drifts, one sixteen feet in diameter, another thirteen, and the last ten. The largest of these tunnels is connected directly with the Dever Crib, which is 2.7 miles from shore. The additional water to be thus obtained will be used to relieve the water shortage on the west side, and will increase the water supply of the city by approximately 400,000,000 gallons per day.

City Undertakes Project

Because the city engineers felt that they could save the taxpayers some money by constructing the

Armour Alumnus Plays in Tennis Exhibitions

In addition to having graduates who have become successful in the business world, Armour also has alumni who have become prominent in the field of athletics.

On Saturday evening, George Jennings, E. E. '31, together with Vincent Richards, nationally known tennis star, played a doubles match with Hans Nusslein, the national professional tennis champion, and George O'Connell, Chicago Town and Tennis instructor.

This match was held at the University of Chicago as one of the American Olympic fund tennis matches, the proceeds to be given to the American Olympic fund.

tunnels themselves, the city undertook the huge project and saved approximately fifty dollars on each foot built, the cost amounting to one-hundred and fifty-three dollars per foot. Construction has been going on for eight years and the completion of the project is expected to be accomplished within the next two months. At the present time all the blasting is finished and the men are occupied in lining the walls with a layer of concrete about eighteen inches thick.

Use New Mixture

Instead of following the usual procedure of mixing cement, gravel, and coarse sand, the engineers on this job have used a mixture of their own origin which is just as satisfactory as any other more expensive formula. When they were blasting, they fell upon the scheme of pulverizing the rock and mixing it with cement. After a few experiments, they mixed it in the ratio of three to one. This use of the debris not only saved purchasing gravel and sand, but also solved the problem of disposing of the bulky scrap.

Mixer Saves Time

At the beginning of the concreting, it was found that it required a crew of eleven men three days to cover a section about fifty feet long, but with the construction of a gigantic concrete form and mixer combined, it was found that a section ninety-four feet in length could be covered in twenty-two hours, operating with a crew of three men. This huge machine was designed by the engineers on the job, and had to be constructed inside the tunnel. It operates on a set of railroad tracks and is moved by a small switch engine. This machine is over two hundred feet long and about fifteen feet high. Before the mixture is poured the plates of the mould are greased, thus there is very little patching necessary when the forms are taken down.

AVERAGES

(Continued from page 1)

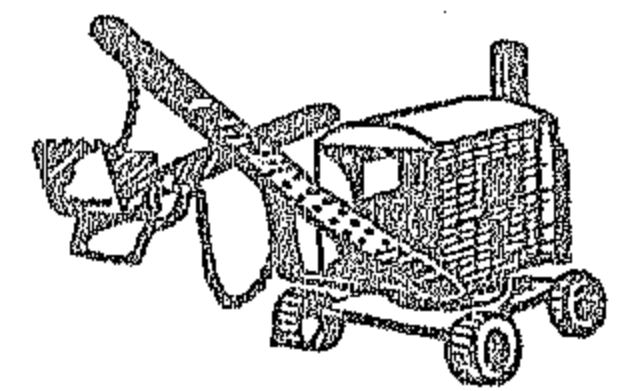
Professional Fraternities	
Scarab	1.66
Alpha Chi Sigma	2.16
Social Fraternities	
Phi Kappa Sigma	1.42
Delta Tau Delta	1.56
Theta Xi	1.82
Phi Pi Phi	1.39
Rho Delta Rho	1.81
Sigma Alpha Mu	1.73
Triangle	1.48
Beta Psi	2.03
Kappa Delta Epsilon	1.60

The average of all students belonging to the Phi Kappa Sigma, Delta Tau Delta, Theta Xi, Phi Pi Phi, Triangle, and Beta Psi fraternities (those that own or rent their own chapter houses) is 1.62. The average of all other students is 1.58. This is the first time in many years that the fraternities have led the remainder of the school in scholastic achievement.

In the above ratings the point system was used for the first time, per cent averages having previously been the basis for comparison. In the present system, "A" is equivalent to three grade points, "B" to two points, "C" to one point, "D" to zero points, and for a grade of "E" no credit is given. To arrive at semester averages, the number of semester hours is multiplied by the number of grade points for each subject and the total points are divided by the total number of semester hours.

In the computation of averages, the physical training grade was not included. A credit (Cr.) for work at other institutions was considered equivalent to one grade point if the student's scholastic standing for work at the Institute was below two grade points, to 1.5 grade points if equal to more than 2, and to 2 if equal to or greater than 2.5.

THE STEAM SHOVEL



WRESTLERS' SPECIAL

"DYNAMITE" DUNNE and "PRETTY BOY" KREML seem to be the fastest workers of the wrestling team as was noted at the last meet with Wright Junior College.

But ROY KERCHER and MEL SCHUMAN are the best chiselers of the same group. They took the skirts home in Bob Patterson's car.

Just the same they couldn't shake off SONNY WEISSMAN who was the self-named official chaperon, assisted by BOB HELLA.

At the mention of a younger sister the same Weissman suggested making it a sevenosome and going places.

The dames put on a big front by stopping at a North Lincoln apartment which they said was their home. Further investigation showed that they didn't live there.

However any curious bystanders might get to see the same girls because they promised to be at the next meet with Wright here at Armour, if transportation home was furnished.

Another incident: RAY PETERSON was congratulating his opponent RICHARDS who said, "I hear that you know me." Says Pete: "I don't know you, but I know your sister ALICE."



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NEWS TO SPONSOR SECOND EDITION OF SOFTBALL TOURNEY

Games to Be Played According to Last Year's Rulings SIGN UP NOW!

The Second Annual Inter-departmental soft ball tournament is hereby formally offered to the student body!

The tourney, the first of its sort and the most popular intramural event ever held at Armour, was inaugurated last year under the direction of the *News*. This year, Joe O'Connor, as manager of Inter-Fraternity and Intra-school sports, will assume the responsibility of directing this sizeable event, and the *News* shall continue to serve as the medium of approach to the teams and players.

If all departments interested will closely follow the entry procedure, the first pairings will be billed next week.

Each team must select a manager who shall officially represent them, and this man must secure a program card; indicate his team's open hours; and enter his department with J. M. O'Connor or J. O. Larson on or before Friday, March 29. Please dispatch this business immediately if your department hopes to enter!

Since freshmen are not organized in departments, five teams from this class will be accepted. Any group of frosh with like open periods can select a manager (provided they are in the lucky five!) and enter as above described. Be sure to list at least fourteen men so that you can have the necessary ten men on the field.

Watch next week's news for details and enter quick if you want to get in.

The tournament rules are hereby listed and all contestants are urged to save the same—at least acquaint themselves with them.

1. A 16-inch soft ball and slow pitching are specified, with 45 foot or 15 pace bases, and a square layout at the South end of Ogden field. The pitchers' box will be on a line with first and third bases. If two games are scheduled at the same time, diamonds must be in the south corners of the field. Players must remain off the league diamond which is being conditioned for school games. Afternoon games must be completed by 3:30 P. M.

2. The games must be organized immediately as the scheduled hour begins. A 5-inning game will be considered as final, but the teams should attempt to complete 7 innings, and must do so if possible.

3. A team will consist of a maximum ten men, the tenth man being permitted to rove. This permits either 4 fielders or 2 shortstops.

4. Ringers—players from other teams—are barred; use of them disqualifies.

5. A forfeit shall count as a defeat. Two defeats eliminate a team from the schedule.

6. The teams will play an average of a game per week till four remain; or until May 11, when the leading four shall be chosen. These teams will compete in a four game round robin series during Junior week, May 14-18, to determine the winner.

7. The teams may select a bystander to umpire on base running and to call balls and strikes. (Three strikes out; four balls a walk).

8. Results should be listed and deposited in the News box immediately at the close of the game.

Armour Sends Relay Team to Butler Meet

In closing their indoor season, an Armour contingent attended the Butler Relays last Saturday at Indianapolis. Those who made the trip were Neal, Dunbar, Neuert, and Nelson, winners in the one mile relay event at the Armour relays and Friede, Faust, Rigoni, and Roberts, captain.

With the outdoor season under way, Coach Staggs hopes to better the standing made by the team in indoor track with the new men who have not as yet made their appearance.



The last swimming meet has been, the basketball letters are all but awarded, and the wrestlers finish up this week. The tennis team has taken over the Armory, a new golf coach named, and baseball is filling the sport pages. Just another cycle well under way.

Comes a nice day Friday and Bill Krafft takes his ball-players to-be out for an airing. The field is kind of muddy but the gym is small—and such weather! And about three weeks to game number one—so get hot. Lots of freshmen high-lowing as the visitor pops in... must be fifty men exercising out here... and to the East, "Double Czech" Adamec, regular keeper of the left fence; Moe Omiescinski, captain and first sacker; Joe Bartusek, the man behind the plate; and Ed Baumel, side arming hurler; play high lows... most of Moe's high lows are fungoes, so the other three sprint... and cuss the captain... while Al Lauchiskis and several basket-baseballers cavort a bit North... Heike, Levy, and O'Connell, seriously... Pop Warner, otherwise... and "the wil-lies" Bill is out to win that place you bet... while looking west we see messrs. Dunn, Nylén, Engstrom and McGrath, the boys that helped the juniors cop the inter-class last fall... and there's Winel, whose leaping catch made Joe McGrath and Swede Nylén get to work for the winning run... kinda short but he works nicely... as do Jimmy Dunne, Ed Wagner and Dave Rodkin, who helped the frosh in the fall tourney... eat more oats boys... say, Dolly isn't here—the winningest of the tourney pitchers and a big hope for the spring... and where's Hallahan, and the other half of the frosh battery, Seidenberg?... and here's Bill Krafft... s'matter Coach, look like rain... you say Baumel's arm is still a worry?...

LETTERMEN TO BE HONORED BY A.T.A.A. ASSEMBLY IN APRIL

Armour Tech's Athletic Association met last Wednesday and officially straightened out some matters of pressing importance. Their first act was to accept the list of men on the basketball and swimming teams recommended for awards. Ten hoopers are to receive letters: eight majors and two minors. The swimmers have four men receiving majors and four who will get minors.

All those present at the meet were 100 per cent for the Honorary assembly to be held early in April. Members of the boxing and wrestling teams will be given their awards along with the basketball and swimming men. Another feature of the meeting will be the presenting of keys to the Honor A initiates who were pledged recently and are now wearing their pledge-colors.

Another new idea has been suggested; that a jacket instead of another letter be awarded to graduating lettermen. The Association, along with the graduating awardmen, is entirely in favor of such a move but as yet has not found a suitable price. Several styles were shown at the meeting.

well you're opening up with Bartusek catching, Omiescinski, Biegler, and Lauchiskis around the infield... yeah, that's a hole to fill at second but lots of men here... that's right, Biegler is missing today... the garden will be patrolled O.K. by Shewchuk and Adamec plus one of the many here... things could be worse Bill. And here come the first four regulars mentioned... hm hm, four times around or more high-lows... they elect the trot, might as well follow them to the gate... s'long.

By the way, gentlemen, now that spring is here the soph M.E., the junior E.E., and the senior M.E. can finish the football tourney. The sophs and the juniors will meet first; the winner is then invited to quell the seniors. See Bucky O'Connor this week.

Tank Lettermen Picked by Coach

Swimming at Armour has ended rather unsuccessfully, but, nevertheless, the plans and anticipations for next year are not the least bit down-cast. A meeting of members of the team was held and in view of his excellent work of this and last year, Roger Knaus was unanimously chosen the captain for the forthcoming season.

Throughout the entire schedule of nine meets, Armour failed to enter one where it was not incapacitated by the sickness of one or more of its main supports. Needless to say, this has been instrumental in cutting down the team's average to two wins and seven losses. Although the tankers will be noticeably weakened by the graduation of Ahern, Bernstein, Moore, and Lyford, it is hoped that the boys on the team will be able to carry on the job with the assistance of some new material.

Coach McGillivray announces that Ahern, Bernstein, Knaus, and Moore have been awarded major letters; Ruckberg, Duerrstein, Tallafuss, and Stehman, minors; and Bob Lyford, a sweater.

Wright Matmen Are Beaten by Techawks

The Tech wrestlers defeated Wright Jr. College at Wright last Wednesday by a score of 23 to 15.

Hella and Marslek lost the first two bouts and Peterson lost the last, but the middle five went to Armour. Jim Dunne rode his man with nice leg work to a decision, and Kreml and Capt. Schmidt both employed half Nelson combinations to gain falls. Herm Sumner beat a bigger Wright man in a nice bout. In this, as in others, the referee was a bit undecided as to when a man was on top, and each time the fighters left the mat, they returned in the referee's stand position. However, Herm's fall, by a half Nelson, was gained in 4:41. Gus Bergquist finally came through in Armour's last win with his season's first.

Armour Golfers to Be Coached by Bibb

With the advent of spring the members of the golf team are polishing up their clubs and are anticipating with unholy glee the pleasure of knocking the small white pill around. Professor Bibb has been selected to replace Professor Leigh as coach, and he will be assisted in his work by Manager Howard Zibble. It is hoped that this season will be as successful as last and that the splendid playing of last year's squad will be continued during this season's schedule.

The four returning lettermen are Ahern, Richards, Shanahan, and Davidson. Last year's record was pretty fine with six wins and two losses, the losses being to Northwestern and Chicago. The team this year will consist of six men, thus leaving two places to be filled by aspirant Bobby Joneses. A tentative schedule released by Manager Zibble includes meets with Northwestern, DePaul, Beloit, Chicago, South Side Jr. College, and the Alumni. Practicing will be on the fairways of the Southmoor golf course, and the call to arms will be issued shortly.

- Summaries**
- 114 pounds—Rabinowitz (W) pinned Hella (A). Time, 2:34.
 - 125 pounds—Canelas (W) pinned Marslek (A). Time, 5:01.
 - 135 pounds—Dunne (A) beat Mauzok (W). Time advantage, 6:15.
 - 145 pounds—Schmidt (A) pinned Solomon (W). Time, 7:08.
 - 155 pounds—Kreml (A) pinned Overfield (W). Time, 3:25.
 - 165 pounds—Sumner (A) pinned Singer (W). Time, 4:41.
 - 175 pounds—Bergquist (A) pinned Fernberg (W). Time, 4:04.
 - Heavyweight—Richards (W) pinned Peterson (A). Time, 3:46.
- Extra Bout**
- 125 pounds—O'Donnell (W) beat McDaniel (A). Time advantage, 4:04.
 - 145 pounds—Kercher (A) pinned O'Connell (W). Time, 1:36.
 - 140 pounds—Patterson (A) pinned Deck (W). Time, 1:55.

GUEST DUELLISTS PRESENTED BY THE ARMOUR FENCERS

Last Friday the Fencing Club presented a few of the better known fencing teams of the Chicago area. Henry P. Kraft and his son, Jacob H. Kraft, nationally known fencing authorities, the Northwest, and the Edgewater clubs, were engaged in bouts.

Mr. Henry Kraft, over 70 years of age, and his son, Jacob, demonstrated the use of the broadsword. Mr. Kraft was the national broadsword champion for 25 years; his son has been the national champion for the last 8 years. Both are artists and aided in the decoration of the "Old Heidelberg Inn," famous World's Fair scene of social activity. They judge meets for universities and high schools, and are active sponsors of the Illinois Fencing League, an organization for free-lance fencers.

Three women, Margaret Iverson, Lucille Anderson, and Betty Youngren; and two men, Ardiene Rodner and Arthur Todd represented the Edgewater Fencing Club. Harold Martini and Allen Wilton of the Northwest Fencing Club engaged the Armour team. A highly amusing situation arose when "Zip" Trzyna was put on the spot by Lucille Anderson.

The most interesting bouts were enacted by the Krafts and Quadee with the foils. R. G. Stevens and W. K. Emmerich, furnished many laughs when they engaged in the light saber bout.

Social meets with the Northwest Fencing and Senn teams are being arranged. On April 13, the team will invade Edgewater for the second time. This time it will be a social meet.

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