



## SIDELINES

By Paul Schultz

THE FAIRLY recent talk which was delivered at Armour concerning the Boulder Dam, has struck a chord within the student body which heretofore had scarcely been touched. The talk established within the group a sincere appreciation and realization of the usefulness and time defying spirit of the engineering profession. The largest and in many ways the most difficult feat of engineering and construction is being brilliantly accomplished during years of depression. At the very time when our economic life seemed most deranged, we have succeeded in erecting the largest structure of its kind ever created by man. It is indeed a gallant monument to any time and people.

THE DREAM of the engineering profession materialized back as far as Theodore Roosevelt's time and yet the task is just being completed. Soviet Russia has recently completed the dam on the Dnieper River, Britain has built in Egypt on the Upper Nile many dams, and all over Europe—in France, Germany, Spain, and Italy—similar projects are underway or have been recently completed. Everywhere the goals are the same. Irrigation, flood control, and the production of electricity are the principal objectives.

IN AMERICA hard times stimulated enormously the development of water resources. We have the great series of dams which compose the Tennessee Valley project, the Columbia River undertaking, and many others scarcely less important. The building program, which was bound to come, was hastened by the need to provide jobs and increase buying power. "It is sound economic policy to provide employment on public works when private employment is slack." Thus the government has been driven to consider every practicable project.

WE ARE STILL too close to the incident to measure its importance and its inevitable effect on the American population. The accomplishment is as yet directly before our noses and as ever the world is too "far sighted" to see those things which are of tremendous importance but of recent date. The accomplishments of these new undertakings will unquestionably create new conditions. Power available from these new hydro-electric plants will influence the location of numerous industries and affect the growth of population. New towns and cities will arise. Population to some extent will be redistributed. The availability of tremendous stores of electrical energy produced cheaply in publicly owned hydro-electric plants is a fact which industry will have to consider in future years of development. Electricity is a vital part of the changes in these years of transition. We are building mighty monuments and in so doing setting in motion forces which, during the years to come will influence the conditions under which we and our successors will live.

## Death Takes Widow of Dr. F. W. Gunsaulus

Mrs. Georgiana Long Gunsaulus, widow of Dr. Frank W. Gunsaulus, the first president of Armour Institute, died early last week in her home at 6020 Woodlawn Avenue.

Mrs. Gunsaulus was an active social worker, having organized the ladies guild at Central Church to do social and welfare work. She led the guild for the past twenty years in its valuable social service.

Mrs. Gunsaulus was a native of Holly Meadows, West Virginia, having come to Chicago with Dr. Gunsaulus in 1887.

Armour Institute joins the bereaved Gunsaulus family in its sorrow.

## POLL ON CONCERT SITE TO BE TAKEN

In order to discover the state of student opinion on the subject of the Armour Musical Club's annual spring concert, the *Tech News* will sponsor, on Thursday morning from 9:30 a. m. to 1:00 p. m., a poll of the entire student body.

The question to be decided is whether the concert ought to be held at Armour, in the assembly hall without charge, or whether it ought to be held downtown in the Goodman or in some other theatre; with an admission charge. A third space on the ballot will allow the voter to write in any other alternative which he may favor.

Balloting will be conducted in the lobby of the main building.

A re-statement of the various arguments which have been advanced for and against the innovation will be found in an editorial on page 2.

## Group Organizes Aeronautical Club

About twenty-five students met last Friday during lunch hour and discussed the possibilities of organizing an Aero Club at Armour.

It was reported that Dean Heald has consented to provide a meeting-place and any other co-operation needed, if enough men are interested and an organization is formed. It was pointed out that at present little more than organization and discussion could be attempted as the semester has proceeded too far.

The object of the club's activities came up for considerable discussion. Three possible directions of endeavors were brought up: building and design work, discussion and theory, and flight training. As the greater part of these present were interested primarily in the first two, Professor Wells suggested that the club be formed with the idea of combination of the two to satisfy everyone.

In the matter of building, a glider seemed to be the most satisfactory with perhaps a light plane later on. The Dean has offered the use of the shops for work.

It was shown that discussions and talks offer the most opportunity for learning of theory. Well known speakers could be obtained to talk before the group.

Another meeting is scheduled for Friday, April 12, at one o'clock in "D" Mission. All interested are invited to attend.

## Phi Lambda Upsilon Announces Pledging

After a laboratory examination to test the manipulative skill of its candidates, Phi Lambda Upsilon, honorary chemical fraternity, pledged five men in the Tau Beta Pi rooms last Tuesday. Three of them, P. Henoch, A. Highman, and C. A. Schnackel are seniors while the two juniors are A. Rulis and L. Siegel.

The candidates had first been subjected to a written examination on March 25, and were then given the laboratory tests before being presented with their litmus-colored red and blue ribbons. Freshmen having difficulties with filtration and precipitates may take heart when they consider that one of the eminent senior chemists found four trials necessary before he could manipulate a wash bottle so as to get the desired stream of water.

## Salamander Pledges Five Fire Protects

Salamander, honorary fire protection engineering fraternity, pledged five juniors last week. The men honored are J. B. Davis, I. M. Hughes, E. R. Johnson, D. J. Neal, and M. B. Stevens.

## R. A. PETERSON IS CHOSEN MARSHAL BY JUNIOR CLASS

At a meeting of the Junior class last Monday, April 1, Raymond A. Peterson was elected Junior Marshal by a large majority. The newly elected marshal and his assistants, one from each department, will officiate in the annual Junior Week, to be held this year from May 13 to 17.

Assistant marshals, who previously have been appointed by the marshal or marshals elected by the class, were this year elected at meetings of the individual departments. The following men were selected: R. Kraus, E. E.; J. E. Linden, C. E.; R. Paulsen, Ch. E.; G. A. Quandt, F. P. E.; and H. J. Sumner, M. E. The department of architecture has not yet elected its representative, but will meet either today or tomorrow for that purpose.

For the past two years there have been three marshals, besides the assistants, but the present junior class decided that concentration of the authority in the hand of one man would be more advantageous than the previous system. A majority vote for one candidate was required and on the second ballot Peterson was chosen.

There are no definite plans at present, but the staff of marshals are considering the continuation of the former activities of the annual event. Open House night, the spring concert, circus stunts, and the usual athletic events are fairly certain to be included, with other novel features decided upon later. The dance which was held last year on Open House night will be repeated.

The Junior-Senior pushball contest, which resulted in the injury of one of the contestants last year, may be replaced by a tug-of-war, a relay race, or some similar event.

## Information Bulletin Is Being Distributed

Copies of the general information number of the Armour Tech Bulletin of May, 1935 are now being distributed at the registrar's office.

The bulletin is out earlier than usual this year because of the depletion of last year's supply. Seventy-five hundred copies have been printed for the presentation of accurate information to students and prospective students.

Two minor changes have been made—shop courses are included and the student directory has been omitted.

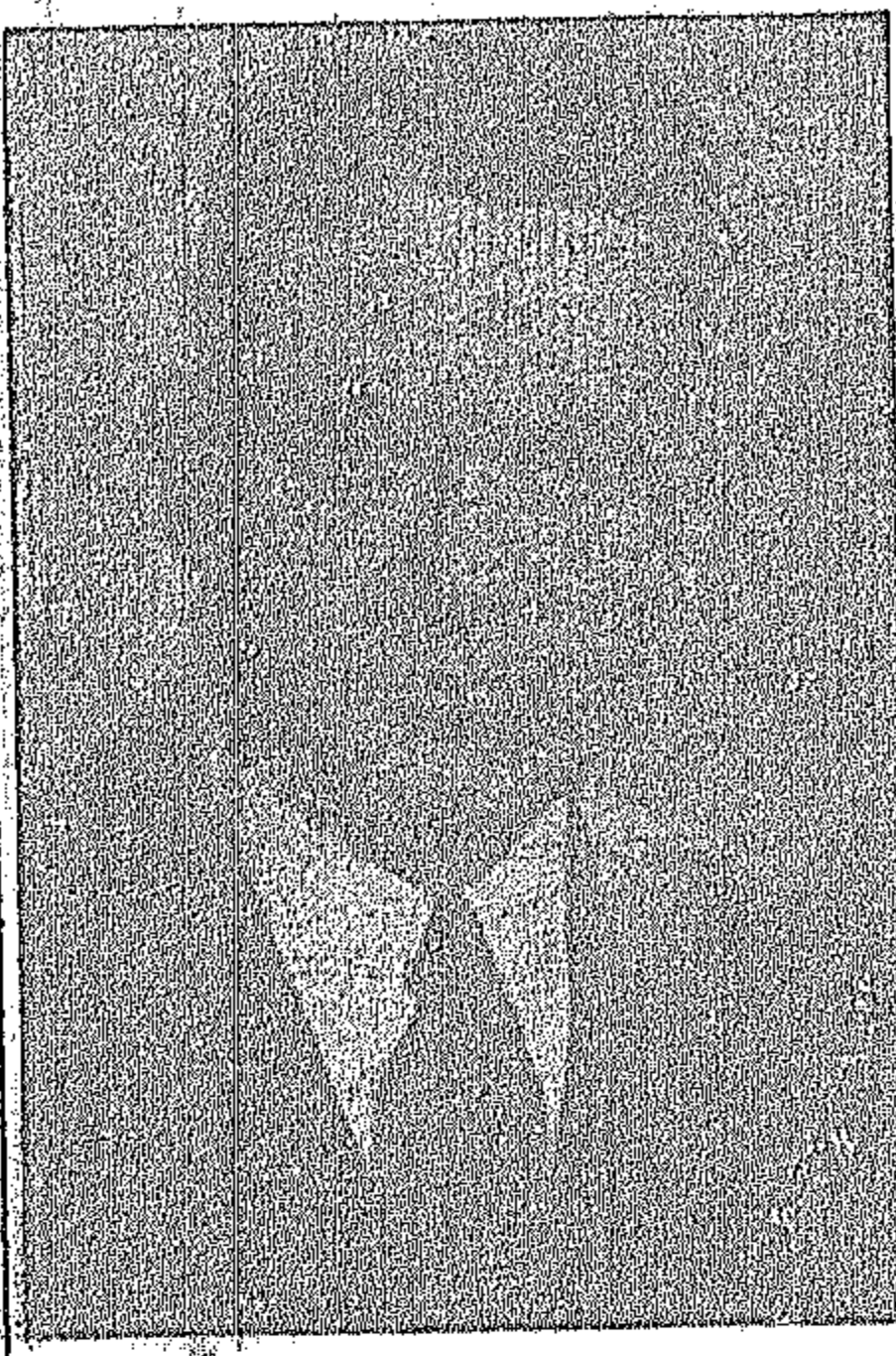
Mechanical and electrical engineering courses have engineering shop, consisting of one hour lecture and three hours of shop each week; included in the curricula of junior and senior years. One subject in mechanical engineering has been eliminated and the time of some other courses has been reduced so as to accommodate the shop courses without important changes in classroom hours.

The list of attending students has been omitted for the reason that the school will publish next fall a separate booklet containing the names, addresses, and telephone numbers of all students as well as faculty members. A booklet similar to this, but containing only the names and addresses of faculty members was published last year. Other schools have found the separate directory more useful and satisfactory.

## Alpha Chi Sigma Adds Two Men to Roster

Having already pledged several sophomores and juniors, Alpha Chi Sigma, national professional chemical fraternity, on Monday of last week pledged two sophomores, Herman Bauermeister and Harry Bliss. The new men who had been introduced to the alumni members at a smoker held at the Beta Psi house, were then introduced to their new duties, and rapidly discovered the new chemical method of removing wall paper in the new rooms which the fraternity has secured at 3339 Federal street.

## SPEAKER



JOHN L. KOOREMAN, who will give an illustrated lecture at the general assembly on Thursday.

## World Travel Film to Be Shown Here

Mr. John L. Kooreman, president of International Travel Society, will give a lecture at a general assembly Thursday, April 11, at 10:30. The address will be illustrated by five reels of moving pictures, and will feature travel in Spain, France, Germany, Switzerland, and Italy. The speaker has been obtained through the efforts of Professor Hanns Fischer, who has been recently added to the faculty staff.

Mr. Kooreman is an ex-naval officer of the Netherlands and a graduate of the University of California. He is the president of the International Travel Society, an organization formed by travelers, for travelers, and in the interest of travelers, and one which is not a profit making institution. It is an educational institution devoted to inspiring and enlightening its members on the world at large. The organization also presents noted travelers before groups so that world affairs may be brought to light through actual experience abroad.

The film and speaker have been obtained by cooperation with the Hapag-North German Lloyd Steamship Lines.

## Eta Kappa Nu Honors Senior, Four Juniors

Following the successful Casino night of the American Institute of Electrical Engineers held at the Phi Pi Phi house on Thursday night, Eta Kappa Nu, honorary electrical engineering fraternity pledged one senior, C. M. Kasmer, and the following juniors: C. P. Boberg, D. H. Fleig, W. J. Fleig, and D. Graham.

While their knowledge of mathematics may have been useless in trying to beat Jake Bard in the applications of probability, the pledges had a chance to use all they know in their examinations. They have also been introduced to some duties which will keep them busy during the next few weeks.

## Lane Tech to Hear Armour Music Clubs

Members of the Armour Tech Glee Club and the orchestra will have an opportunity to advertise their alma mater by giving a concert next Tuesday morning, April 16, at Lane Technical high school. Professor Schommer will give a short talk before the concert.

Numbers to be played by the orchestra include "In a Monastery Garden" and selections from the "Student Prince."

Both the orchestra and glee club will present a concert at the Belmont Hotel on Friday evening, April 26. This concert is an annual affair and is welcomed by all musical club members. Although the plans are not fully known, it is rumored that a very unusual type of entertainment is in the offing.

## TRACT ON LAKE SHORE DRIVE ALMOST UNDER OPTION AS A POSSIBLE NEW ARMOUR SITE

President Hotchkiss to Report to Trustees on Advantages of Spot; Brochure Under Preparation

HOPE FOR MOVE BY NEXT SEPTEMBER

There will be an important meeting of the Inter-fraternity council on Wednesday at 7:00 P. M. at the Phi Kappa Sigma house.

In an effort to provide a more concrete basis for discussion on a new site for Armour, President Hotchkiss has recently obtained options on about three acres of land located on Lake Shore drive between Erie and Ontario streets.

To Press for Early Action

Interviewed by the *News* last Friday, Dr. Hotchkiss stated that he is by no means committed to this choice, but he made clear that he is determined to move the Institute from its present site to a more suitable location. He is now arranging an early meeting of the Executive committee of the Board of Trustees, at which he will make a report on what has been done. A brochure explaining the possibilities of the lake front site is now being prepared. All of the work of Dr. Hotchkiss on the question of a new campus is subject to the regard of the Board of Trustees.

A plan for financing the lake front location has been worked out with the help of several prominent Chicagoans, and is in their opinion and in that of Dr. Hotchkiss, a highly promising one.

Hope for Move by September

Dr. Hotchkiss is hopeful of being able to move before next September. There are buildings on the Erie street property which would readily serve as temporary facilities for the Institute, but the eventual aim is to build new buildings especially designed for Armour's needs. The lake shore site also provides ample space for such future building.

An imposing educational building facing Lake Shore Drive, with other buildings housing an assembly hall, a gymnasium, and laboratories located on the site.

(Continued on page 5)

## Tau Beta Pi Honorary Pledges Seven Men

Illinois Beta chapter of Tau Beta Pi, all-honorary engineering fraternity, pledged seven men at a meeting held Monday evening, April 1, at the Phi Kappa Sigma fraternity house.

Six juniors and one senior were pledged, W. W. Henning, M. E., is the senior; juniors are F. D. Cottermer, M. E.; R. R. Johnson, C. E.; H. P. Milleville, Ch. E.; H. S. Nachman, M. E.; R. M. Paulsen, Ch. E.; and R. A. Peterson, F. P. E.

An unusual event occurred when Professor H. L. Nachman, a faculty member of Tau Beta Pi, witnessed the pledging of his son, Harry S. Nachman. It has seldom occurred that the son follows in his father's footsteps by being initiated into Tau Beta Pi.

## Bulletin for Summer School Session Ready

A bulletin describing the courses which Armour Tech will offer during the summer session beginning Monday, June 24, and ending Friday, August 16, has been published.

Courses are offered in architecture, chemistry, mathematics, physics, electricity, mechanical engineering, mechanics, and social science.

Chemical engineering students beginning their sophomore year will have quantitative analysis from June 17 to July 19 followed by special methods.

Field practice in surveying required for civil engineering students entering their junior year will be carried out at Camp Armour beginning Friday, June 18 and ending July 26.

Detailed information of the summer courses may be had by securing a bulletin at the registrar's office.

## Seniors' Decision Is Private Dance

By giving a closed dance, this year's Senior class is inaugurating a new custom at Armour. The affair, which is in the nature of a farewell get-together is to be held Friday evening, April 12, in the Continental Room of the Stevens Hotel.

At the stroke of twelve the party will turn into a dinner dance, and the seniors will dine while listening to the Stevens Hotel orchestra.

The price of the bids is \$1.50, the rest of the cost being absorbed by the Senior class treasury. With this arrangement it will be possible for all of the members of the class to stretch their resources far enough to attend the dance.

## Open House Exhibits Planned by Chemicals

Sponsored by Professor Freud, the junior chemicals are already considering projects that will rival other departments on open-house night. The chief experiment being considered by the class is the catalysis of rubber vulcanization. Recent discoveries of the exact nature of the reactions which take place have led to more accurate control of vulcanization with consequently better products, such as tires which stand up under high-speed conditions.

Another project being considered by Otto Zmeskal and Leonard Robbie who have been appointed by the class to organize the set-ups, is the production of solid carbon dioxide or dry ice. This will require a compressor, before the process can be used. Surface tension may be represented by several experiments illustrating its applications and measurements.

## THIS WEEK

Tuesday, April 9, to Monday, April 15

Tuesday Orchestra Rehearsal.

Wednesday Interfraternity Council Meeting; Phi Kappa Sigma house; 7:00.

A. S. M. E. Inspection Trip to Milwaukee; All Day. Players' Rehearsal.

Thursday General Assembly; 10:30

Spring Concert Poll; Lobby; 9:30 A. M. to 1:00 P. M.

Radio Club; 3rd entr. Chapin, 2nd floor; 12:20 P. M.

Chess Club; 1st entr. Chapin, 4th floor; 12:20 P. M.

Glee Club Rehearsal.

Armour Boxers, Wrestlers at Duncan "Y"; 8:00 P. M.

Friday Society Meetings; 10:30 A. M.

Baseball: George Williams at Armour; Ogden Field, 3:30 P. M.

Fencing Meet; Armour at Wright Junior Coll.; 3:30 P. M.

Saturday Outdoor Track; Armour at Elmhurst.

Fencing; Armour at Edgewater; 1020 Bryn Mawr Ave.; 1:00-6:00 P. M.

Monday Players' Rehearsal.

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### The Concert

The proposal of the Armour Tech Musical Clubs to hold their annual spring concert away from the Institute has aroused so much argument that the *News* has decided to take what it considers the only fair course in a matter affecting so many of us. A poll to determine the opinion of the school on the matter will be conducted this week.

The plan of the musical clubs is to present their concert at the Goodman theatre, expenses to be paid by an admission charge, probably amounting to fifty cents. However, since the clubs have no funds of their own, it was necessary to obtain financial backing of some sort to assure the payment of all expenses. The junior class, as sponsor of junior week, was asked to assume this responsibility and did so rather readily. The officers of the musical clubs were certain, however, that the concert would be able to make its expenses.

As far as the question of site alone is concerned, the Goodman theatre probably has the edge over the assembly hall, but not such a big edge as might be supposed at first. The assembly hall seats considerably more than the Goodman theatre, and certainly never looks better than on a spring evening under the enlivening influence of lights and people.

However, besides the improvement in the surroundings, other advantages for the downtown concert are claimed by its sponsors. Added prestige for Armour would be one result of such a move they say, and the attendant publicity would be valuable. Perhaps the most important argument is that profits from the venture would be used to establish a working fund for the musical clubs, something which they need and deserve.

Objections to the downtown concert center on the fifty cent admission fee. Many are skeptical of the chance of making a profit, or even of avoiding a loss. More than two hundred men will probably take part in the concert; to admit them free would certainly cut the receipts, but to charge them admission doesn't seem feasible. Requiring them to sell a stated number of tickets in order to qualify for a free one might work and might not, no one can say.

The admission price would undoubtedly reduce the attendance, but to what extent is a question for the astrologers. However, it is pointed out that many have been in the habit, in the past, of taking their young lady friends to the concert, and the addition of an admission price for an occasion to occur two days before the Junior Formal might discourage this practice.

It becomes evident from all this that the essential question to be answered is whether the improvement to be gained by taking the concert downtown is worth the price to be added. The results of the poll will probably determine what final action is to be taken, and it is to be hoped that they will be conclusive.

## "The Slipstick"

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

I'd heard so many rotten jokes  
That I had heard before.  
I'd stood them as long as possible,  
But finally I got sore.  
Somewhere there was (there had to be)  
A rhyme, a phrase, a word.  
A clever bit of humor of which  
Nobody had heard.  
So, solemnly I took an oath,  
By my grandfather's beard, I swore,  
I would search until I found the joke  
That no one's heard before.  
I read through every volume,  
Till folks thought me insane,  
I scoured comic magazines,  
But my search was still in vain.  
But suddenly when I glanced through  
A medieval tome,  
I found just what I'd hunted for,  
A humorous new poem.  
I set it down so those of you  
In this locality,  
May view a clever masterpiece

Of real originality:

"That ladie whom I seen ye withe,  
Did cause my hearte much stryfe!"  
"That was no ladie, sire," he sayeth  
"Fair damsel was my wyfe."

S. Budd Sills.

Don't forget, boys, that kissing a girl good-night is a custom of long standing.

There was pawky humor—or was it ready wit?—in the remark of a boy who, coming home one Sunday afternoon with a string of trout, was suddenly confronted by the minister. There was no way to escape; but the boy rose to the occasion. "Minister," he exclaimed, "d'ye see what thae troots got for nabbin' worms on a Sunday?"  
The minister went on his way rejoicing.

### Modern Philosophy

Most of us have never been sculptured, but all of us have been chiseled.  
Not all the squirrels on the campus climb trees or live on nuts.  
Ants can lift weights which are tremendous as compared with their own, but wasps also can raise quite good sized lumps.

Little Boy: "Mother, do they have skyscrapers in heaven?"  
His Mother: "No, dear; it takes engineers to build skyscrapers."

### DICTIONNAIRE MODERNE

token: p. tense of take; take, tooked, token.  
camera: Italian prize-fighter.  
gait: hole in a fence.  
raw: three make a college yell.  
knots: demented;  
Ex. He's knots over her.  
hole: place where bad boys go.  
band: to bow.  
Ex. You gotta band down, sister.  
valer: exclamatory remark.  
Ex. Valve, I'll tal you.  
tank: to think.  
wan: first number; wan, tew, tree.  
wary: word meaning in a great degree; wary drunk.  
tapioca: a wigly dance.  
vast: the part of the suit we spill the gravy on.  
rein: real wet water that leaks down from the sky.  
furnish: a big stove in the basement.  
lava: a sweetheart.  
Ex. Lava come back to me.

Sweet young thing: "Excelsior 0909? You've the wrong number but maybe you've got the right person!"

Oh horse you are a wondrous thing,  
No horns to honk no bells to ring,  
No license buying every year,  
With plates to stick on front and rear.  
No clutch to slip, no valves to stick,  
You start yourself without a click.  
Your spark plugs never miss or fuss,  
Your engine never makes us cuss.  
Your frame is good for many a mile,  
Your body never changes style.  
Your wants are few and easily met,  
You've something on the auto yet.

After terrific struggles, the freshman finally finished his examination paper, and then, at the end wrote:  
"Dear Professor: If you sell any of my answers to the funny papers, I expect you to split fifty-fifty."

Jean: "Well, you just try to kiss me and I'll fight for all I am worth."  
Bob: "If that's the case, I think I had better stop then."  
Jean: "Oh don't be that way, I've lost all my money and I am practically penniless."

H. O.

## Fraternity Notes

### DELTA TAU DELTA

Delta Tau Delta takes pleasure in announcing the formal initiation of Malcome C. Forsyth, '36. Our baseball team is practicing hard in order to prepare for the coming inter-fraternity schedule. Brother J. Bridge, vice president of our division was a visitor at the house last Tuesday evening. Our ping pong team is preparing for the final game of the inter-fraternity tournament which is to be played Wednesday night against Beta Psi. Brothers Prebensen, Gallagher, and Gragg returned from Appleton yesterday. They represented our chapter at the formal installation of the new chapter of Delta Tau Delta at Lawrence College.

### BETA PSI

At this time, we wish to congratulate E. R. Johnson and M. B. Stevens, who were pledged to Salamander, honorary Fire Protection Engineering Fraternity last Wednesday.

Last Tuesday the Mothers Club held their monthly meeting at the house. Many new faces were seen as the Mothers of our recent members also came to the meeting. Refreshments were served and enjoyed and everyone had a good time.

This last week-end a number of the fellows drove down to Champaign, Ill., to witness the formal initiation of pledges into Alpha Chapter.

The finals in the ping-pong tournament will be played Wednesday.

### TRIANGLE

Tonight, we will hold our annual Founder's Day Banquet in conjunction with the Chicago Alumni Association of Triangle. It will be held at the Engineers Club.

We will install the newly elected officers of the active chapter at this time.

Brother Scott has been elected president. Brother Kendall will now become vice-president and Brother Penn will retain his office of treasurer. Congratulations boys and many thanks to the men who are retiring.

### RODMAN'S REVERIE

Taken from: Field Engineers Bulletin No. 8, U. S. Coast and Geodetic Survey, December, 1934.

By R. S. Clark

When Life's last traverse is finished  
And the notes are computed and checked,  
When angles and levels and chainage  
Are purged of the last defect,  
We shall turn in the tools and the notebooks  
And stamp off the ice and the snow  
And take us a good long noon hour  
Of a thousand years or so.

Then, when we are all quite rested,  
The Chief will announce a plan  
For a Galaxydetic survey job  
With a trillion miles to span  
Out past the far horizons,  
Out past the Pleiades,  
To tie in the solar system  
With the neighboring galaxies.

All distances chained precisely  
With an invar light-year chain,  
All levels referred to datum  
Of the true ecliptic plane  
In twenty decimal places,  
Or possibly twenty-one,  
With never a doubtful reading,  
And never a line re-run.

All angles to accurate fractions  
Of a pip on the Zodiac;  
Doubled and thrice redoubled;  
Repeated forward and back.  
Horizons exactly closing,  
All pink and purple and gold,  
Where instruments read to millionths  
And fingers are never cold.

Then rodman will not be footman,  
Pacing a weary route,  
But will ride two weeks in a rocket ship  
To set the front target out.  
The chain gang will not inch along  
With bucks and tension bars,  
But will shoot by stadia just like that,  
From here to the horns of Mars!

And, 'ere we have measured and plotted  
The infinite boundaries of Space,  
The rumbling March of the Alphabet  
Shall have passed the decimal place  
And each in his separate station  
Shall labor as best he can  
For the profit of all creation  
And the good of the General Plan.



CONGRATULATIONS, Stewart S. GRANGER and Melvin M. GROSSMAN and our heartiest wishes for your success in the Ryerson Scholarship Competition! Mel and Stewie, you were chosen to represent ARMOUR for the twelve hundred dollar prize because you are the TOPS. It's a big responsibility and a lot of work; but we know you have it in you from your past records to rank with the best of them, so let's see you give it EVERYTHING.

Our apologies to Milt BEJECK for having omitted his name from the list of juniors who rated mentions on the "Kindergarten" projects. We would like to see him and the rest of his class come through with mentions at least on their current project, "A Park Bridge," which is a test of engineering skill as well as design.

Do you happen to know what a tea caddy is? Well, frankly not many of the junior modellers did until Ted HOFFMEISTER came along and gave them just that thing to model in clay. We'd rather not insult your intelligence by telling you what it is.

When a feller needs a friend is when he's hungry. And that's when you can depend on Irv ADDIS to share his lunch with you. Boy, what a spot-hitter a corned-beef sandwich and a good juicy pickle can be!

An open letter to today's jury on the senior "Research Hospitals":

Dear Jury: Please be good, kind, generous, and humane in your judgment of these projects, for you have no idea, or perhaps you have, what

## Millionaires Created at A. I. E. E. Smoker

A "Monte Carlo" interlude was the evening's feature at the smoker of the American Institute of Electrical Engineers held last Thursday evening at the Phi Pi Phi fraternity house. "Gambling" of all sorts—dice, roulette, black-jack, and wagers on the path of a billiard ball—caused those present to either lose or run up fantastic sums. "Jake" Bard, by increasing his holdings from an initial fifty dollars to a final seven thousand, easily led the field.

a little thing like a mention would do to appease the mental agony of those who would like to graduate.  
Signed: A friend of the senior class.

Hal SLAVITT mentioned to us the other day that he had gone through a few weeks of torturous "mental duress." Just why or how such a condition should have existed we are not qualified to say; but, nevertheless, we are glad to see him back to NORMAL again.

One of our engineer friends tried to crash the life class last week to get a peek at the model; and it was quite a treat, indeed, to see Prof. KREHBIEL usher him to the door, GENTLY but ever so firmly. At least that's one place in the school where the junior and senior ARX reign supreme and ENJOY a complete monopoly.

Two mysterious questions presented themselves almost simultaneously the other evening: Where was Mic WANDMAYER coming from when he boarded a north-bound "L" long past his bed-time? (If we told you the station, it wouldn't look so good for Wandy). Question 2: Was the red stain on Wally SOBEL'S overcoat really lip rouge? Now don't get us wrong, because so far as we know Wandy doesn't use the stuff.... YET. EAGLE EYE.

## ...says Tokyo

Translating the symbols, the Tokyo telephone operator says, "The connection is made—go ahead, please." Meaning that now you can talk to Japan from any telephone in the Bell System.

Interestingly, Japanese was the first foreign language ever transmitted by telephone—when in the winter of 1876-77 three Japanese students at Harvard visited Alexander Graham Bell in Boston. These men have lived to see the day when they can talk with Boston from their homeland!

Seeking to put the whole world on such easy speaking terms, Bell System service now enables you to reach more than 93% of the world's 33,000,000 telephones.

Why not drop in at home tonight—by telephone? For a lot of pleasure at bargain rates call by number after 8:30 P. M.

## BELL TELEPHONE SYSTEM



お出になりましたお話し下さい

## REALISTIC FORMS GIVEN TO LATEST MOTION PICTURES

Three-Dimensional Idea  
Thought About as  
Early as 1853

### PRODUCERS DOUBTFUL

Recently in Paris, Louis Lumiere, who was the first to exhibit motion pictures in France, announced that he had solved the problem of producing motion pictures in stereoscopic relief, so that life appears on the screen apparently in three dimensions.

#### Use Stereoscopic Methods

This problem of relief was solved many years ago by means of the stereoscopic method in which photographs are made in pairs at the same time and at the same focus but not at the same point of view. The two lenses and the two plates or films take pictures separated by the distance between the eyes—a matter of about three inches. Present the twin photos to twin eyes by means of the stereoscopes' twin lenses, and the brain performs a miracle of fusion, resulting in a single picture in relief.

#### Difficult in Application

Applying this principle to motion pictures is not easy. The camera presents no difficulties. Either two shutters may be provided with two rolls of film traveling synchronously, or right and left-eye pictures may be taken on a single film by a mirror or reflecting prism. Projecting and viewing, however, present a real problem, for the usual equipment is expensive and cumbersome.

Long before there were movies—in 1853—the anaglyph was devised. Photographs to be seen by the right eye were tinted red and those intended for the left, green. Through spectacles which had one red and one green glass, one saw a single picture in true relief. Any two complementary colors could be used.

#### Rely on Mixture of Colors

It is this principle that Louis Lumiere has revived and improved upon. Struck by the fact that the old motion-picture anaglyphs taxed the two eyes unequally (the two images were not of equal brightness) and that visual strain resulted, he decided that there must be more brilliancy and that this must be the same for both images.

The brightest rays are the yellowish-green in the middle of the spectrum. At opposite ends lies the dull red and violet rays. Lumiere divided the spectrum in two straight lines through the portion of maximum intensity. Left-eye pictures are made by all the rays that lie to the left of the dividing line and right-eye pictures by the rays lying to the right. In this manner, the luminous density is equally distributed between the two eyes. Each eye does not see single color, but a mixture of colors lying on either side of the center of the spectrum. From here the problem becomes one for the dye chemist.

#### Audience Must Use Spectacles

To separate the two sets of colored pictures, suitably tinted, gelatine covered spectacle are worn. The left eye looks through gelatine dyed with a mixture of naphthol green, eosin (red), and tartrazin. The right eye looks through a double coating, one stained with cyanol blue and the other with a saccharine solution of diethylmetamidophenol. The rays passing through to the left eye are those in the yellowish-green-orange portion of the spectrum; those seen by the right eye are complementary to the left. According to reports, a strikingly lifelike picture is the result of viewing the specially tinted photos with the specially tinted glasses.

Is it practical? Will the public wear spectacles to see favorite actors in sculptural solidity? Hollywood thinks not and merely raises an eyebrow whenever anaglyphs are mentioned.

Approximately 45 percent of the freshmen at Washington University are related to former students at that institution, according to figures compiled from registration cards. Although not all freshmen filled out special cards, those who did listed more than 500 relatives who formerly attended the university.

## Senior E. E.'s Visit Lighting Institute

Last Friday afternoon, the Chicago Lighting Institute and the current electronics show were hosts to the senior electricals on their weekly inspection trip. Demonstrations of the uses of photo-electric cells and Thyratrons were made for the upper classmen, and lectures on those subjects and on the use of color in lighting were given by Mr. Germain of the Westinghouse Electric Company and Mr. Mitchell of the Lighting Institute.

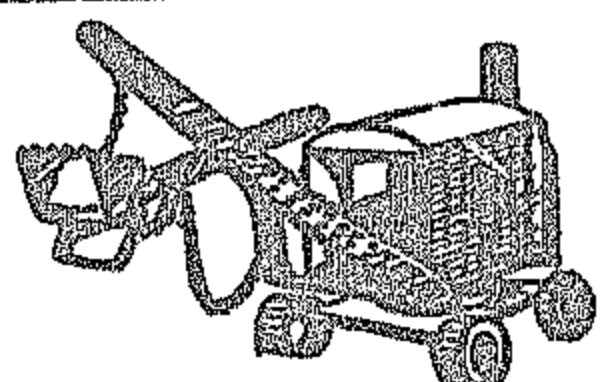
Numerous uses of the photo electric cell were explained and demonstrated by Mr. Germain, with the aid of diagrams and apparatus.

Mr. Mitchell's lecture was also fully illustrated by demonstrations made with actual equipment. Proceeding from the elementary process of breaking up white light into the primary colors with the aid of a prism, Mr. Mitchell demonstrated how blue, red, and yellow may be recombined into white by means of a revolving cube.

By changing the colors of the light in the room, the speaker proved the possibility of psychological influence of color, and demonstrated color variation as a method that can be used to decorate rooms.

Starting on a new track he showed the quality of light given off by a sodium vapor lamp and briefly enumerated its advantages over the currently used gas filled lamps. In conclusion, Mr. Mitchell demonstrated the strange qualities of ultra-violet light in showing the influence of the light on teeth, vaseline, and specially treated cloth.

## THE STEAM SHOVEL



RICHARD BERGER gave a very significant demonstration of his Pontiac's ability to negotiate soft sand on a senior schmiere recent inspection trip to the Hammond beach. Dick is thinking of adding a steam shovel to the car's equipment.

Hold your nose for this one: From Prof. Carpenter's metallurgy class comes the following atrocious punning. Martin-ite took Pearl-ite in his Austin-ite ferr-ite. Remember contributors, "The bun is the lowest form of wheat."

Much to his dismay, ROBERT SOUSA DALTON found that the girls working at Lever Brothers and Amaizo corn products all wore trousers. He claims that the reason for this is to cut down on the sex-appeal.

CHUCK RIESZ was stopped by a cop on a motorcycle in Washington park recently. Says Chuck, "Gimme the ticket quick, I'm in a hurry."

PROF. B. always gives the Chemicals spats before the eyes. He probably wears them to bed to keep his ankles warm and then forgets to take them off.

ED LINDEN says that GORDON ZWISSLER is the kind of a guy that

## Facts About Patents Told to Junior W.S.E.

"What Engineers Should Know about Patents" was the subject discussed by Mr. B. A. Schroeder, patent attorney, before the Junior Section of the W. S. E. last Thursday.

After clearing up the common misconceptions about patents, the speaker defined patents as "rights to exclude others from using, making, or selling the invention as covered in the patents."

Inventions are then classified into two contrasting groups: those that are applicable to patent protection, and those that are not. Among the former are inventions on art, machinery, composition of matter, plant, and improvements on any of them. Those that are excluded from protection by patents are mathematical formulae, and business methods.

The process of obtaining a patent consists of the filing of application in the patent office, together with an exact specification, description, and complete diagram of the process. Applications must be filed, the speaker emphasized, as early as possible, in order to avoid any unexpected legal entanglement. Prior to the filing of application, inventors are advised not to publish any information about the process, as in so doing patents are invalid.

would change the fuse if the lights should go out.

Last week's edition of the News stated that there were six women in "The Red Robe," but the names of only five were printed. Could the one that was omitted be FRANCES X. P.?

## NEW PROCESS OF MAKING ALCOHOL USES ETHYLENE

New methods developed in the laboratory to produce alcohol from petroleum by-products are the basis of a new plant soon to open near Chicago. Already granted a permit to manufacture denatured alcohol, this new unit of the Union Carbide and Carbon Chemical Corporation will utilize ethylene and other gases in making synthetic alcohol. These light gases, by-products which were formerly burned as waste, result from the cracking processes now used to extract a greater proportion of gasoline from crude oil.

In view of the fact that the supply of these olefine gases is likely to increase in the future, this method of manufacturing alcohol is likely to increase, according to Benjamin T. Brooks, writing in a recent issue of "Industrial and Engineering Chemistry." American production of alcohol has always been by fermentation, although synthetic methods have been developed in Europe to utilize carbon monoxide and hydrogen in preparing the constituents of antifreeze preparations. The new method of using oil-cracking wastes is so cheap, that it will probably be able to compete with fermentation alcohol made from molasses. The recent attempts to use surplus corn in producing alcohol do not seem economically feasible in spite of present low prices.

One reason for the success of the first trial plant using this process is the small space required as compared to fermentation alcohol from corn or otherwise. The size of the Whiting plant is shown by the construction of

## Math Club Has Talk on Complex Numbers

Addressed by a speaker who was thoroughly acquainted with his subject and who presented it with ease and fluency, the audience of the Math Club meeting in Science Hall on last Friday was entertained by Herman Bauermeister's talk on complex numbers.

The speaker, starting with a discussion of the classes of numbers, proceeded on with a complete analysis of the graphical solutions of complex numbers, stressing methods which were not generally known by those present, and which bordered on the realm of the calculus. One of the types of solution involved the use of a series of parallel planes in addition to the conventional two, and provided for the solutions of equations when the variables were both real and imaginary. At the close of the presentation of his prepared material, Bauermeister answered many questions which were forthcoming from an alert audience.

storage tanks with a capacity of 7,000,000 gallons.

Ethylene, which is usually separated from the other gases by treatment at low temperatures, has a number of applications, one of which, strangely enough, is the ripening of fruit. Much of the fruit and vegetable supply coming to the Chicago markets from California has been artificially ripened by this gas.

The process which converts these gases into alcohol uses a synthetic method which gives a product of unusual purity. Nevertheless, the alcohol is to be entirely denatured since it is to be used industrially and in anti-freeze compounds.

# WE ASKED NEWSPAPER PEOPLE:

"IS THIS FACT  
IMPORTANT TO YOU?"

"CAMELS ARE MADE FROM FINER, MORE  
EXPENSIVE TOBACCOES—TURKISH AND  
DOMESTIC—THAN ANY OTHER POPULAR  
BRAND."

(SIGNED) R.J. REYNOLDS TOBACCO COMPANY  
WINSTON-SALEM, NORTH CAROLINA

© 1935  
R. J. Reynolds  
Tob. Co.

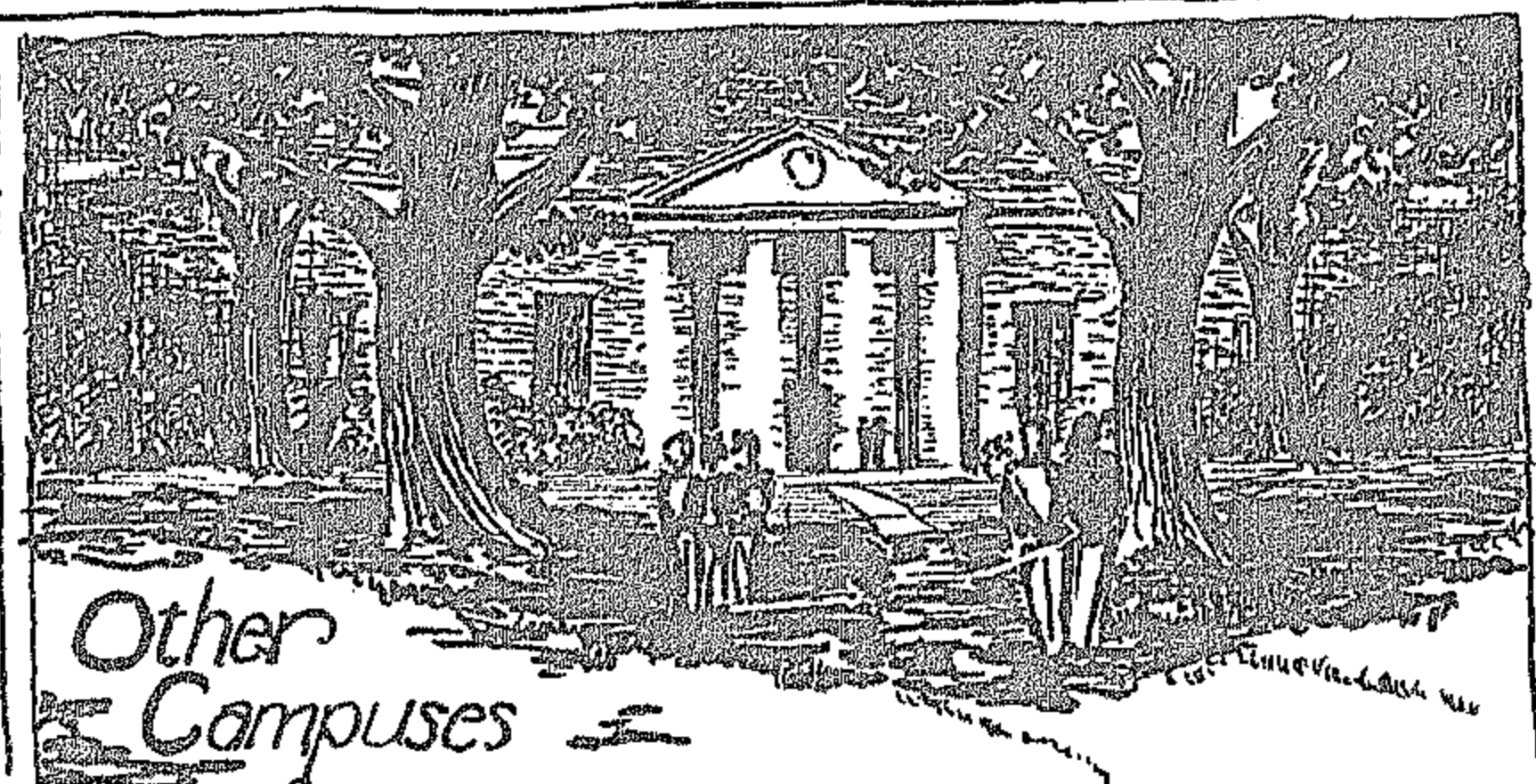
**ENERGY!** An editor gives his experience: "The enjoyable way of easing strain is smoking Camels," says Ray Baker. "Camels bring back my 'pep,' and I can tackle the next big story with renewed energy!"

**SO MILD!** Miss Margaret Nichols, expert woman reporter, says: "Camels are a smoother smoke. They have a mild flavor—delicate and pleasing—entirely different from any other cigarette. Camels taste better!"

**FLAVOR!** "Camels have a great taste—rich and pleasing," says Herman J. Lamkin, linotype operator. "I've smoked them for many years. I can smoke as steadily as I want to, and Camels don't ever affect my nerves."

**HEALTHY NERVES!** Pat Robinson, sports writer, says: "I've been smoking Camels ever since they were put on the market. I smoke at least two packs of Camels a day. They never interfere with my nerves."

**VALUE!** "Camels are made from costlier tobaccos. They're the real 'extra value' cigarette," says E. E. C. Pickwood, ace news-photographer, who often uses fast airplanes to get "front page pictures" for a great New York newspaper. "I'm loyal to Camels," Pickwood continues. "They taste so much richer and smoother—never frazzle your nerves. I have smoked Camels for years and I, too, would 'walk a mile for a Camel.'"



By Orville H. Hampton

In a Cornell time survey, it was discovered that the average student slept about twice as much as he studied. That means about 20 minutes for a night's rest, and it takes 19 minutes to get to sleep.

One of the members of Tau Delta Phi at Texas U. adopted a dog and named him "Dammit Scram." Imagine what happens in the dog's mind when someone holds out a very desirable bone and calls, "Here, Dammit Scram."

**A Lesson in English**  
You see a beautiful girl walking down the street.  
You walk across the street, changing to verbal and then become dative.  
If she is not objective you become plural—you walk home together.  
Her brother is an indefinite article, and her mother is accusative and becomes imperative.  
You talk about the future, and she changes the subject.  
Her father becomes present, and you become past tense!  
(Georgia Technique).

Some students in the University of Vienna sign up for a course, miss all their classes, and meet the professor only when the final examination is given. They pass as often as those who attend all the lectures.

A jinx follows Texas collegiate editors. The editor of the Texas Ranger, humor publication of the University of Texas, recently was ousted from his position; and the editor of the Daily Texas, student newspaper, narrowly escaped death a few months ago when a plane in which he was flying crashed in a corn field near Austin.

The five most valuable chemical discoveries of recent date, according to Prof. Edward Bartow, University of Iowa, are: method of making a silk substitute; cracking of oils; artificial refrigeration; insulin; and liver extract.

A professor at Georgia Tech recently gave a test to one of his classes to determine how accurately a man's character may be judged by seeing his picture. He used pictures of Lewis Lawes, warden of Sing Sing; Walter Lippman, editor; Sinclair Lewis, novelist; and H. L. Mencken, critic. They were identified as follows: Lewis Lawes, banker, politician, statesman, doctor; Walter Lippman, lawyer, gangster, plumber, governor; Sinclair Lewis, carpenter, ditch digger, murderer, explorer, radio announcer, gangster; H. L. Mencken, butcher, beer baron, mill worker, bandit, degenerate, and Senator. Could these men be fooling us?

**Academic Progress**  
Freshman: I don't know.  
Sophomore: I am not prepared.  
Junior: I don't exactly remember.  
Senior: I don't believe I can add any constructive ideas to what has already been said.

Dr. James C. Munch, research director of the pharmacy school of Temple University, says parents can soon stop coaxing their children to take medicine. Dr. Munch has "made substantial progress in de-bitterizing medicine." He reports that the use of proper solvents has made unpalatable pills palatable and increased their medical value at the same time.

In the old days the people went west to settle on the land. Nowadays the land moves east to settle on the people.  
(University Daily Hanson)

The discovery of 1,700 new variable stars, each a new "yardstick" for fathoming the depths of space, has been reported by Dr. Harlow Shapley, director of the Harvard University observatory and a U. of Missouri alumnus.

In a survey conducted at North-

western university recently, 247 out of 340 students smoke. Five students broke down and confessed that they chew.  
The blame for the formation of these habits cannot be placed at the school doorstep. This is substantiated by figures showing that the freshmen have smoked for 2.52 years and the seniors for 5.33 years.

The oldest university in South America is the University of San Marcos, in Lima, Peru, founded in 1551.

Don't say burp, say eructate.  
(Detroit Collegian)

Prof. Pittman B. Potter, formerly U. of Wisconsin (Madison) political scientist, has been appointed special advisor to Emperor Selassie of Ethiopia.

Being in the hospital is no excuse for not taking examinations at the University of Missouri. Every student patient who was able to write took exams at the end of the first semester anyway.

From 1802 to June, 1934, 10,182 cadets have been graduated from the U. S. Military Academy. (West Point, N. Y.)

A butler in the Lambda Chi fraternity house at the University of Alabama has named three of his offspring Lambda, Chi, and Alpha.

All members of the class of 1884 of Susquehanna University are living and accounted for.

A Colorado professor of forestry was giving his class some inside dope about fighting forest fires. Said he: "The important thing to remember is to keep cool."

Two universities announce the formation of new Greek organizations on their campuses:  
Who Kippur Upslong.

Chi Baby Chi, New Maternity.  
Pledges of Alpha Delta Sigma, national professional advertising fraternity, at DePauw university were forced to act as sandwich men as an initiation stunt.

"Do you know that there is a Smith born every eleven minutes?"

(Purdue Exponent)  
Columbia University (New York) physicists last year undertook to measure the size of the neutron during the past year. This is one of the new sub-atomic particles, having mass but no electric charge. Its diameter was fixed at .0000000-000001 inch.

Judge—"So you were caught with the goods, eh? Whom did you rob?"  
Yegg—"A frat house, yeronner."  
Judge—"Distribute this stuff to the down-town hotels."  
(Northeastern News)

Thumbnail sketch of Purdue Coed—Good from far and far from good.  
Purdue Exponent.

The village policemen at Lafayette had little difficulty in apprehending the 16 freshmen who crashed the Mars Theatre in celebration of the burning of their pots. All sixteen were roosting in one row placidly awaiting slaughter.

## STUDENT MUSINGS

**Radio Servicing, One Dollar Per Call**  
No doubt the reader has heard the story of the telephone lineman who was told by the company not to use bad language. On a job one day, his partner accidentally spilled some molten lead down his back, whereupon he said in a mild voice, "Really, James, you must be more careful." The reader has no doubt also read Paul Bunyan stories.

It is a fact not generally known to the uninitiated that the language of the average service man, and of radio technicians in general, is replete with pungent phrases which are not held in high repute among the better classes.

We all know that sailors swear, but their exhortations do not come from the soul. They are uttered as a common, uninteresting procedure. Not so by the radio man. With him it is a matter of aesthetic importance. His phrases are delivered slowly, and deliberately, words chosen with care, and no time is lost in getting to the point. His vocabulary consists of novel and unusual expressions, each utilized with the purpose of expressing the desired shade of meaning. Ordinary profanity is entirely unsuitable for the service man. He must have variety, spice, profanity, and most important of all, feeling.

The reason for his elevated importance of vocal gymnastics is simple, when his case is analyzed. Let us take the usual sequence of events which lead to the violent pollution of the atmosphere, accompanied by blue flashes, and other manifestations.

The service man is at home. He has a headache, and is very tired. He is about to go to bed, when the phone rings. It is a service call. He must leave at once. He packs his tools and meters and leaves. At the home of the customer, he is told about the radio, and is told not to damage the rugs, and is left alone. He gets an idea of the trouble by using his set analyzer, he removes the chassis from the cabinet, places it upside down on the floor, and assuming an uncomfortable position, he commences. At the first move he makes, he accidentally touches the live wire in the set, and gets a shock, of a voltage of approximately 750, which is a lot of volts for a shock. In jerking his hand back, he knocks his set analyzer off the chair, and breaks one of his best tubes, scattering glass all over the floor. His head aches worse, but still he controls his temper. He knows that the worst is yet to come.

In the next five minutes he burns his hand twice, on the soldering iron, cuts his knee on the broken glass, drops solder on the rug, and receives another shock. He has not uttered a sound as yet. He knows that his troubles have just begun. During the next ten minutes, by a diligent application of test prods and ohmmeter, he finds that the push-pull audio input transformer has shorted, burning out several resistors, and not doing the condensers any good either. He proceeds to remove the trans-

## CALUMET HARBOR WORKS ARE TOPIC OF LOCAL W. S. E.

### Government Project Is Completed in Short Time

#### COFFER DAM TYPE

Theodore L. Condron, consulting engineer, gave an illustrated talk on the design and construction of the Calumet Harbor breakwater at the W. S. E. meeting last Friday. Mr. Condron has spoken at Armour W. S. E. meetings several times.

The breakwater extends into Lake Michigan at Calumet Harbor 4200 feet east and then 2500 south. It is composed of 131 rock-filled cells built with steel piles at a cost of about one and one-half million dollars. The piles have an average resisting power of 17,000 pounds per lineal inch and are forty-six feet long. These were driven about six feet into the clay bottom by four steam hammers.

#### Cells 38 Feet Long

Each cell is thirty-eight feet long and forty feet wide, and is filled with small-sized limestone to a depth of about thirty-three feet. The average for each cell is 2,260 tons of stone of sizes one-fourth to fourteen inches. This stone was put into a cell by belt conveyor from the stone boat in one hour. On top of this small stone are a few layers of stone weighing several hundred pounds apiece and a layer of cap stone composed of seven tons. This prevents the waves from washing the stone away.

#### Contract Let in 1933

The government let the contract in October of 1933. Strikers' damage, and the complaint of weakness of design by the contractor, prevented work from getting under way. The type of construction was found to be much stronger than other breakwaters of comparable type, and construction was begun May 20 of last year. Only fifty-eight days were needed for completion of the project. This type of breakwater costs less than the wood, concrete, or stone mound types, and can be built in less time. Wood and concrete breakwaters have a smaller resistance to being rolled over.

#### Nethercut Speaks

E. S. Nethercut, secretary of the national W. S. E. spoke a few minutes after the lecture in praise of Mr. Condron and his work, and advised that if any man is to succeed in engineering, or any other work, he must make his own way without relying on the help of others.

former, and after an hour of patient, painstaking toil, he repairs the short, and attempts to replace the transformer.

He is hot, tired, and disgusted. His back aches from bending over the chassis. His spirit is willing, but his

## Senior Chemicals Go On Inspection Trip

Last Thursday the senior chemicals visited the Lever Brothers Soap Company and the American Maize Products Company. The trip was under the direction of Professor McCormack.

The Lever Brothers Soap Company is the largest and best equipped soap plant in the Chicago area. It has a soap kettle capacity of 1½ million pounds. The factory, a good example of plant construction, was designed and built by Stone & Webster.

Lever Brothers maintain their own plantations in Africa and the Philippines from which come coconut oil and palm kernel oil used in the manufacture of their soaps. Bar soap, soap flakes and soap powder are manufactured. The company also recovers and refines glycerine. This plant was designed and built by Sieck & Drucker, both Armour graduates.

The American Maize Products Company is one which grew from a small scale to its present large size in 15 years. This plant, like many others, has during its growth paid little attention to the proper arrangement and coordination of factory operations. They manufacture products derived from corn, several varieties of corn starch, corn oil, glucose, dextrose, lactic acid, and calcium lactate, the last two being starch fermentation products.

## W.S.E. to Hear Talk on Traffic Problems

On Thursday, April 11, at 7 o'clock, John A. Massen, chairman of the City Council Committee on Traffic and Public Safety, will present a talk on "Traffic Problems."

The vital civic, economic, and structural phases of the Chicago traffic problems will be presented. Alderman Massen recently supervised the publishing of a report of the Committee on Traffic and Public Safety, on "A Plan for the Greater Chicago Traffic Area."

The talk will be given at the Engineering Building, 205 W. Wacker Drive, Room 1200.

body lags. I say that he attempts to replace the transformer, but alas, it is only an attempt. The genius who designed the set, so designed it that in order to bolt the transformer, one must be ambidextrous, near sighted, and in addition must possess six fingers on each hand, and also must be a contortionist of no mean ability. Our service man, not knowing these facts, and possessing none of these abilities, breaks his finger nails, cuts his hands, drops the set a few times, and spends an hour and a half getting the transformer nearly in place, only to lose his grip on the bolt, and to start over. By the end of another two hours, he believes that he has the transformer in place. He takes a step back, takes a deep breath, and smiles. Then the transformer falls out. The rest is obvious.

R. W.

## Roemmert Talks in Lincoln Park

### Headed Micro-Vivarium in Hall of Science Last Year

A world in a drop of water was remarkably demonstrated by Dr. Georg Roemmert last Tuesday evening through the auspices of the State Microscopical Society at the Academy of Science at Lincoln Park. To a packed house, Dr. Roemmert presented the wonders of the unseen world by means of a microscopical screen projection in which actual living material was used.

#### Use Arc-Light Projector

The projector was of the arc-light type of high illuminative intensity concentrated by mirrors and lenses through the glass plate containing the subject into the microscope and reflected to the screen by a total reflecting prism. Samples of water taken from ditches, marshes, wells, etc., were placed in the projector and subsequently discussed. The protozoan (one-celled) life, of which about 25000 species are known, was first taken into consideration. The audience was able to clearly see their feeding and reproduction as pointed out by the Doctor. Later the metazoan life (poly-celled) was discussed in a similar fashion, the rotifera class in particular being considered although several other types were shown on the screen.

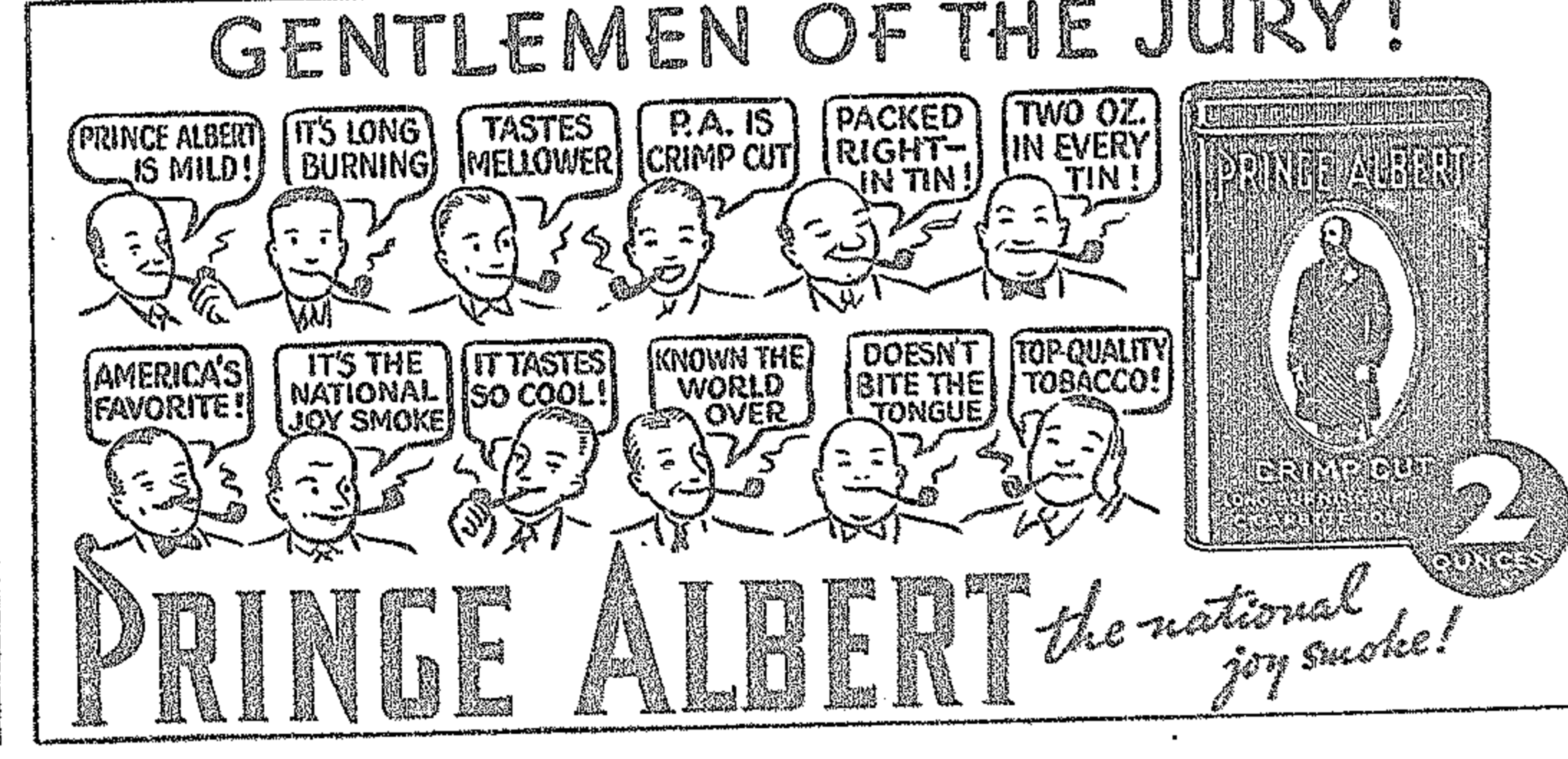
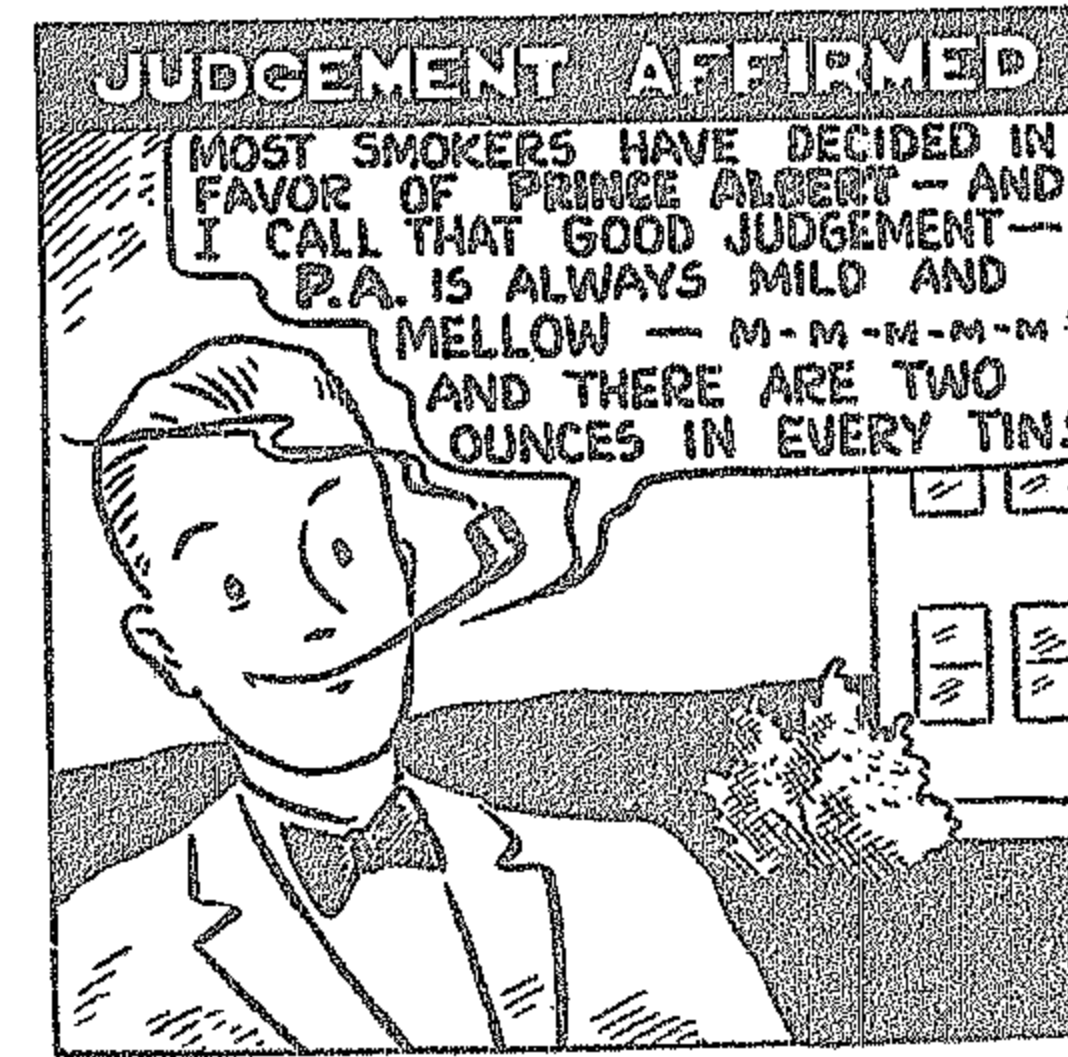
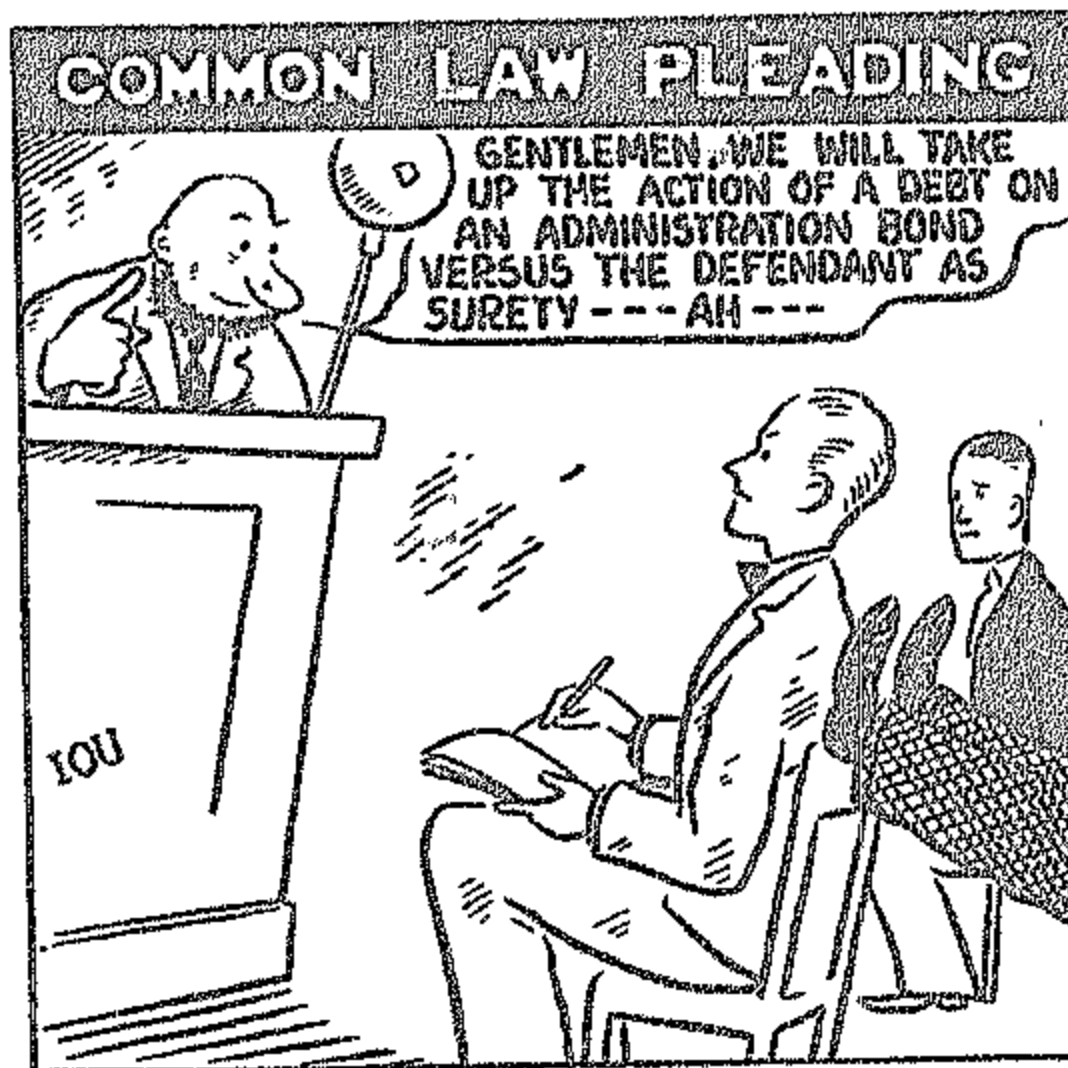
#### "Chlorophyll" Discussed

As a final exhibition of micro-organisms, the specific connection between plant and animal life was considered. The Euglena, a one-celled form of life, was shown to possess characteristics of both plant and animal life. A short talk was then given on that remarkable substance, "chlorophyll," a substance which the euglena possesses, but no other form of animal life, is known to have. This substance has the ability of combining water and carbon-dioxide to form certain carbohydrates.

The effects of heat upon each of the living micro-organisms were also shown upon the screen. The heat was applied while the sample was in the projector; it was thus visibly demonstrated that heat is fatal to all forms of life within a very short time.

#### Show Crystal Formation

The process of the formation of crystals, of various salts from the liquid to the solid state was then demonstrated in the projector. The substance was first placed under the microscope and melted with an external source of heat. While the specimen was cooling, the screen clearly showed the "building up" formation during the recrystallization. The first projection of each sample was by the use of projector-generated white light. The projection was then repeated using polarized light. This was effected by the insertion, at the total reflecting prism of another so-called "polarizing prism" (Nicol prism) which permits the light waves to pass through in a single plane. The color effects produced upon the screen were far superior to those produced by our friend Jack Frost in the Autumn.





# TECH SHORTS

## THIS WEEK'S GAMES

Wednesday, April 10

C.E. 3 vs. F.P.E. 3—10:30.  
E.E. 4 vs. Bodnar's—2:00

Thursday, April 11

F.P.E. 4 vs. E.E. 3—10:30  
Ch.E. 3 vs. E.E. 2—11:30  
Ch.E. 2 vs. Bennies—1:00

Friday, April 12

C.E. 4 vs. F.P.E. 2—10:30  
C.E. 2 vs. M.E. 4—2:00

Monday, April 15

Ch.E. 4 vs. Bodnar's—2:00

Tuesday, April 16

E.E. 2 vs. Bennies—1:00  
Ch.E. 4 vs. F.P.E. 2—2:00

If any of the teams listed in above games suffer two defeats before they reach the last games scheduled, they can either compete in an unofficial game or forget it.

If the competitors in this tourney wish to play their games with reasonably usable balls, they must turn in the equipment immediately after every scheduled game. This rule holds without exception and the player accepting the equipment will be held responsible if the ball is still in play at noon after a 9:30 game!!

Another rule to avoid confusion: Balls knocked over the right field fence shall get the batter to second base (no home run!) and shall only score base-runners forced home!

Don't forget! If you can finish 9 innings in the scheduled time, it's a nine inning game; otherwise 7 or 5.

## Results of Last Week's Games

M.E. 4 (18)—C. E. 3 (12)  
Ch.E. 3 (6)—M.E. 3 (4)  
F.P.E. 4 (5)—Frosh (1)  
Ch.E. 4 (6)—M.E. 2 (4)  
F.P.E. 3 (17)—C.E. 4 (7)  
Ch.E. 2 (8)—Rodeans (3)

After three days of competition, six teams are at least half way out of the league. Both freshman teams lost their games—the green hats had better pick up if they hope to stick in the league.

The fireworks started when the big guns of the senior M.E. pounded out an 18-12 win over C.E. 3. 14-2 was the score at the first inning's close and that lively ball touched every inch of turf — but those under the fielders' feet. Hope the civils have lost the pop-up habit (including J. O. L.) . . . tsk, tsk, can they hit them high!

Swede Nylen gained the distinction of being the first S.O. victim, by the way.

The ball must have deadened considerably after the battering it took in the first game, for remaining scores are comparatively low —except the C.E. 4 game on Friday. The Civils and the junior F.P.E. fought to a 6-6 tie in seven innings, and in the ninth—bingo. A disputed third out, decided in favor of the F.P.E., was followed by ten runs. At least five balls passed through the arms of C.E. players, and some fancy heaves

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# THE ARMOUR NEWS

Vol. 1.

A. I. T., CHICAGO, APRIL 9, 1928

No. 1

## BERRY, MARSHAL, ANNOUNCE PLANS FOR JUNIOR WEEK

Open House, Junior Prom, Class Rush, Are Week's Features

### MANY NEW AWARDS

Plans for Junior Week have been in preparation for the past few weeks and are rapidly nearing completion under the direction of William H. Berry, who was recently elected by the Junior Class to act as Marshal. The duties have been definitely decided upon as May 14 to May 19, the latter day, Saturday, being Circus Day.

Berry has chosen his assistant marshals to help him conduct the scheduled events in proper order. The five men who will serve in this capacity are Goddard, Stutz, Peterson, Brown, and Williams, while Charles Lamb, the Junior Class President, will be an honorary member of the committee.

A tentative schedule has been drawn up, and in all likelihood very alterations will be made upon the details of the program, but have not as yet been ironed out.

The plan calls for Open House on the evening of the 14th, a group of several of the men, though

## Initiations, Pledges Mark Activities of Many Fraternities

Many of the fraternities, both the social and the honorary, have been busy of late in pledging and initiating new men into their ranks. Reports have come from many of the houses and a list is here given of the names of several of the men, though

## GREETINGS TO "THE ARMOUR NEWS"

The establishment of this student newspaper is just another significant illustration of the spirit of progress at Armour. It is my earnest wish that its standards will be in keeping with that of our other publications, of which we are so proud. Whether or not there are enough happenings of note to furnish material for a weekly newspaper is the problem before us, and if the supply justifies the effort of publication, then all honor to the Board of Editors who have the success of this venture at heart.

To print a worthy and interesting news sheet commensurate with the standards to which we are accustomed is a responsible undertaking, and I wish here to assure the members of the staff that they shall have the heartiest cooperation of the authorities of the Institute in this new but justifiable student enterprise.

I shall keep a copy of this issue in the archives of the Institute along with our prized first editions of Institute publications. My best wishes to "The Armour News." May it have the loyal support of the student body and be as good as the best.

HOWARD M. RAYMOND,

President of the Armour Institute of Technology.

## JUNIORS TO RUN BOILER TEST

Today the Junior Electricians will don their overalls and proceed to find the overall efficiency of the new Laker boiler installed at the Institute. Every pound of coal that is fed into the boiler must be weighed, as well as the water and ash. Gauges, thermometers, scale readings, draft indicators, and the flow gas analysis all contribute to the share of the boiler test.

## Faculty Members Enthusiastic Over New Publication

The establishment of this newspaper at Armour seems to have met with satisfaction and approval on the part of the faculty, if the opinions of a few of their leaders can be taken as terms.

The first definite action taken on this project was at the beginning of this semester, when a committee, headed by Spence and composed of Walter J. Zenger, Fred Pagne, and Elmer B. Knapke, reached into the various departments of the city for the purpose of drawing up a tentative schedule upon which new publications could be published.

Just exactly seven years ago today the first issue of the ARMOUR NEWS made its appearance on the campus. Above is a partial facsimile of the first page of No. 1, Vol. 1. The name ARMOUR NEWS was changed on the second issue to the ARMOUR TECH NEWS, the name used on all succeeding issues.

to first base helped! One run in their half of the ninth was poor consolation for the seniors.

The senior F.P.E. snuck one on the "Frosh". These actuarial pencil pushers all came to a game with stogies—except Vin Smith, who bore a boiler in his teeth. Messrs. Roberts and Ahern split their nickel's worth. Any wonder the frosh lost—smoke in

their eyes. J. Lew, who poled out for the circuit, made the following rejoinder for the press: "What this country needs is a good five cent cigar—shoved down its throat."

Now that the track is being conditioned it might be advisable for all the various ball players to make a distinct effort to restrict their ball playing to the track infield.

All those who wish to witness the boxing and wrestling meet at the Duncan "Y" on Thursday evening at 7:30, may do so by obtaining tickets from Louis Beigler.

Congrats are due the boys who copped the major awards in wrestling: Capt. Schmidt, Hella, Krenl, Peterson, and Sumner.

## NEW SITE

(Continued from page 1)

cated behind it is the general picture which the Board of Trustees will be asked to consider for Armour. It is hoped that such a definite plan will have the effect of crystallizing interest in the undertaking. Dr. Hotchkiss pointed out that it is far easier to arouse interest in a projected definite building on a definite spot than in the mere airy notion of a new campus.

## Make Study of Armour's Needs

During the past few years a great deal of work has been done on the question of a new campus for Armour. A painstaking survey of the space now being used by the Institute and on that which an expansion program would require in the present generation was made a year ago by Professors Heald, Ensz, and Grafton of the civil engineering department. As an example of what might be done from such a study, a usable plan has been prepared of a seventeen story building complete with laboratories, assembly hall, dining rooms, club rooms, offices, swimming pool, and gymnasium facilities.

## Elmhurst Go April 13 Opens Outdoor Track

The outdoor track season opens next Saturday with a dual meet at Elmhurst. The team will renew activity, after a month free of competition since the close of the indoor season, and hopes to duplicate their indoor win over the Elmhurst squad.

The outdoor schedule is as follows:

April 13—Armour at Elmhurst.  
April 20—Armour at Lake Forest.  
April 27—DeKalb at Armour.  
May 4—Bradley at Armour.  
May 7—Armour at Loyola.  
May 11—Wheaton at Armour.  
May 18—Elmhurst Relays.

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## FROSH ELIMINATED FROM COMPETITION BY A.T.A.A. RULING

Act Necessitated by the  
Demands of Other  
Colleges

### LIST MAT LETTERMEN

In order to comply with the policies of the teams with which they wish to compete in the future, and to insure a higher rating of our teams, the Armour Tech Athletic Association passed the well known "three year law" in a meeting last Wednesday. This action eliminates from competition all freshman and thus narrows down the number of men who will be permitted to be active in any sport. The force of this act is not retroactive and consequently does not apply to those freshmen who are now engaged in regular competition.

#### Major Letters to Wrestlers

The necessity of such a ruling did not arise in past years, because the calibre of our squads was not such that we had to arrange meets with schools who required that all their opponents have such a regulation; but with the constant improvements that good coaching and talent have wrought, the managers of Tech athletics have encountered a great deal of difficulty in obtaining bookings, and thus the action of the A.T.A.A. was demanded by prevalent conditions.

In contrast with its policy of former years of only awarding major letters to graduating seniors participating in minor sports, the A.T.A.A. has passed favorably the awarding of major letters in wrestling to Schmidt, Sumner, Peterson, Kreml, and Hella who excelled in this season's work and who are certainly deserving of the letter given to them. Wrestling is not considered to be a major sport, and the awarding of major letters is not intended to be indicative of raising the standing of wrestling. Minor letters were given to Kercher, Dunne, and Patterson, while Marslek and Bergquist were awarded sweaters.

#### Award Assembly Definite

Among the other topics which were brought up for discussion, was the date for the award assembly which will be announced as soon as the time of delivery of the sweaters is determined. The actual occurrences of this honor assembly is assured and it is hoped that the efforts of those behind it will result in the establishment of a precedent which will be maintained in the future.

### Williams Here Friday For First Ball Game

There is no law in the tomes against the business of assuming something pleasant that perhaps isn't so, and for that reason Coach Krafft is just about to haul off and do quite a bit of assuming in regards to his baseball team for this year.

The coach is about to assume that hidden somewhere among the thirty hopefuls he can find a few pitchers, infielders, and to make a full measure, a couple of outfielders.

No team can lose eight lettermen and feel no ill effects, when listed among the departed are such stars as "Lefty" Mayer, Vic Omiecinski, "Pepper" Reed, Micky Lukas, and Steve Lillis.

The main question is, "Will the pitchers come through?" If they do, things look rosy, but if they fail to deliver, (?)!

#### Pitchers Are Big Worry

Just what is in store for the Armour fans who look forward to the first game remains unpredicted. Most of the opening games in the past years have been tabulated on the credit side of the ledger. If the boys win the opening game with George Williams next Friday, it will do quite a bit to rid Coach Krafft of that inferiority complex which always nixes a coach when he starts the season with a new organization. Last year the Techawks put away the Williams' team by an 8-1 score.

The opener, Friday, should see Bartusek catching; Omiecinski; Wagner, Biegler, and Lauchiskis, around the infield; and Adamec, ? and ? in the outfield. If you don't like these selections—pick your own.

## Tennis Team to Open Season's Work With No. Central Meet on April 25

As this merry month of bashful showers speeds slowly on its way, it brings nearer April 25, the day on which the tennis team opens its 1935 schedule. It is predicted that on that day our friendly (?) rivals, North Central, will fall before the mighty drives, forehand, backhand, etc., of the Armour racqueteers. Besides the above match, which takes place at North Central, the following have been scheduled:

May 4—George Williams at Armour.  
May 10—DePauw at Greencastle.  
May 11—Ind. St. Teach. at Terre Haute.  
May 14—Wheaton at Armour.  
May 20—George Williams at G. W.  
May 23—Wheaton at Wheaton.  
June 1—DePauw at Armour.

The above schedule, however, is by no means complete. Among other worthy opponents whom Armour will meet, are numbered Notre Dame, Loyola, and the University of Chicago, Big Ten Champs in 1934.

In preparation for meeting the aforementioned opponents, the tennis squad is working out every Wednesday and Friday at the Armour under the eye of the coach, Professor Colvert. Prominent

among those present on these days are Capt. Armsbury, Bob Esbensen, and Lowell Lammers, returning letter-men from last year's team. Others on the squad are Freund, Schmidt, James, Boehme, and Morrison. Herb Arnold, winner of the fall tournament, is a non-combatant at present, due to a bruised ankle received the first day of practice. Dick Armsbury has a like injury, but both should be working soon.

All men interested in practising at the Armory, with the ultimate goal of a position on the team, are urged to see Manager Searl as soon as possible. The selection of the team will be made by the ladder system; that is, any man earns his ranking by playing and beating the man rated one above himself. For instance no. 6 man, after beating no. 5 man, becomes no. 5 man and automatically wins himself a position on the team.

If the above mentioned bashful showers retain their timidity, the Tech courts, which are now being worked on, will soon be in shape to be used. It is predicted that all afternoon classes in Chapin Hall will of necessity be suspended, due to the terrific "pings" caused by our tennis stars smacking them back and forth across the net.

## ALUMNI MATCH TO OPEN GOLF SEASON SATURDAY, APR. 13

Now that spring is three weeks old the subject of golf surges to the fore. One of the first official acts of Prof. S. Fletcher Bibb as the new Armour golf mentor was to issue an urgent call for golfers and more golfers. A playoff schedule will be drawn up and played this week, and all men interested are urged to see Manager Zibble sometime today or tomorrow before 5 o'clock. This should be done with the idea of preparation for next year as well as the intention of playing on the team during 1935.

This call is made doubly urgent by the fact that the first match of the 1935 season takes place Saturday against the alumni. A tentative schedule has been drawn up by Manager Zibble and is presented below.

April 13—Alumni at Southmoor.  
April 20—Northwestern at Kil-dare.  
April 26—South Side Jr. College at Southmoor.  
April 27—Chicago at Olympia Fields.  
May 4—Beloit at Beloit.  
May 7—Wright Jr. College at Southmoor.  
May 11—Loyola at Southmoor.  
May 24—South Side Jr. at South Side.  
May 25—Wright Jr. at Wright.

## Fencers to Meet Wright on Friday

The Fencing Team is out for their second triumph over Wright Junior College in their meeting at 3:30 on Friday, April 12. This meet will be held in the enemy's gymnasium, and is the third official match of the season. One loss and a win are the results of the previous two.

Saturday will see the team compete in the Edgewater social meet, to which all the fencing organizations in the city have been invited. The boys will have a busy time demonstrating their skill as the meet is officially supposed to last from 1 to 6 P. M. but will be undoubtedly longer. They will match foils and sabers with members of the following organizations: the Universities of Chicago and Northwestern; and Edgewater, Marquette and Northwest Fencing clubs. The regular foil team consisting of E. Krok, captain, G. Quandee, assistant captain, K. and Z. Trzyna; and Coach Fisher and 8 other foil and saber men will represent Armour.

Future meets with the Northwest and Marquette Fencing Clubs, and with the University of Wisconsin, are being arranged.

Southmoor, Armour's home course is at 127th and Southwest Highway. Besides the above matches there is the possibility of return matches with several of the schools.

## TECH BOXERS AND WRESTLERS MEET DUNCAN 'Y' APR. 11

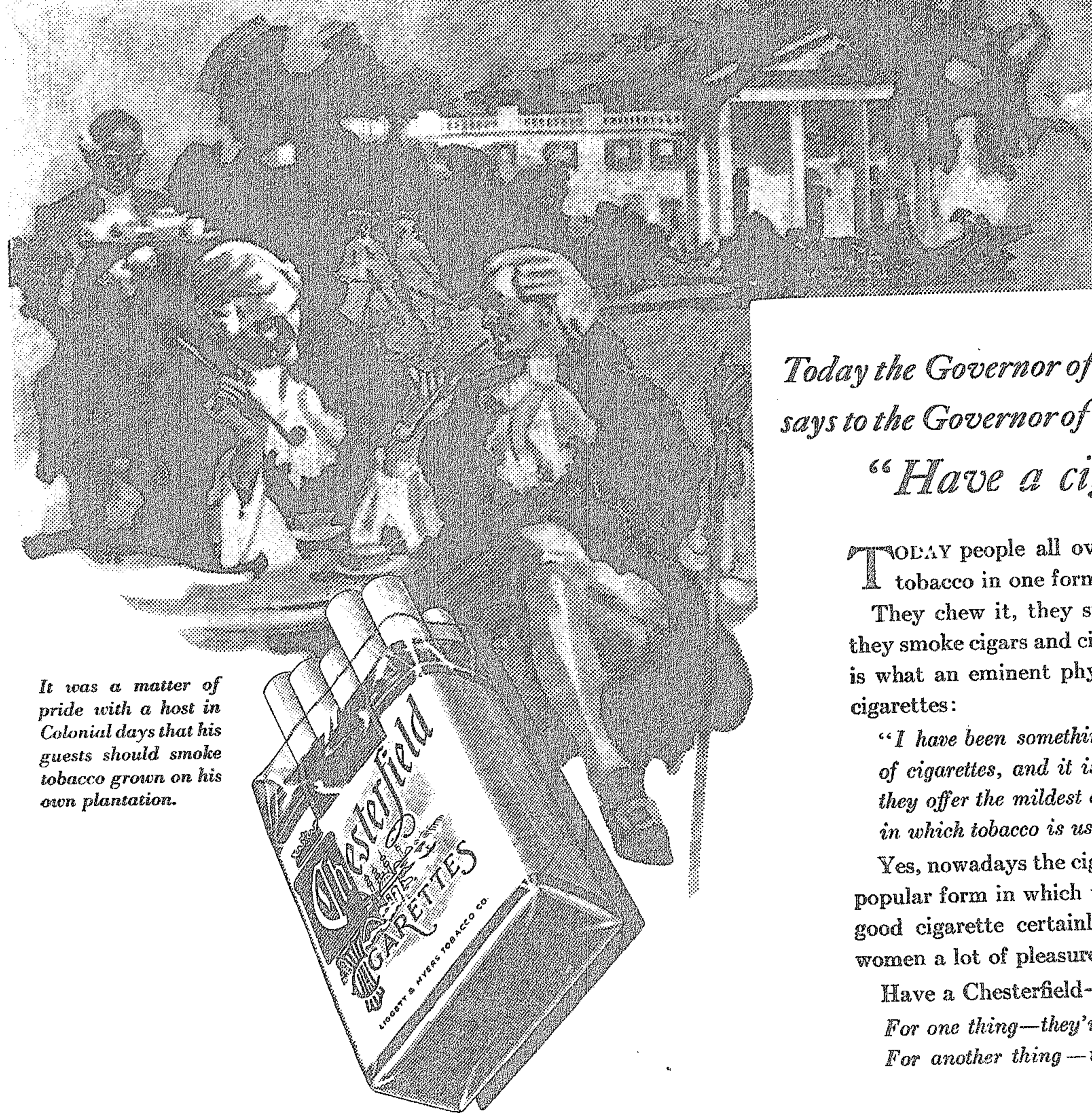
On next Thursday evening at 7:30, the Tech mat and ring men will travel out to 1515 West Monroe to encounter the Duncan "Y" boxers and wrestlers in a dual meet. Due to the fact that the wrestlers have broken training, they will have to work a bit harder than usual, but the boxers are slated to come through with an easy victory, if the daily bag punching and shadow boxing in the gym can be taken as indicative of what they will do in actual competition. The boxing squad will probably consist of Rubin, Behmer, Brown, Seidenberg, Lindahl, Moore, Manke, Sramek, Stober, and Hella. The tentative wrestling squad is composed of Schmidt, Sumner, Hella, Kercher, Peterson, Dunne, and Kreml, with probably a few changes before the meet. From the success of the boxers at Cuiver, and from the wrestling team's fine record of this season, Tech is sure to make a good showing.

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