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## An Engineering Education

At last we have an opportunity to make known our feelings concerning a very timely matter which has to do with our present occupation of attending a reputable engineering school and preparing ourselves for our life work. The opportunity is occasioned by the appearance in this issue of the *News* of an article by Prof. G. E. Gebhardt, head of the department of mechanical engineering.

Admittedly, the ordinary college students, such as we happen to be, are not as mature thinkers as their professors and for that reason perhaps their opinions are not of very much value in deciding weighty problems similar to the one which everyone knows has been receiving considerable thought and discussion by the men who are responsible for our college curriculum, namely, what are the qualifications which a young engineer should have to become a success and a credit to the school responsible for his training. However, their opinions on this subject should certainly not be disregarded completely and with this in mind we present what we feel is at least several students' opinion.

First of all, consider a young man just entering an engineering college. After some deliberation he has decided he wants to make his life work engineering of a special kind, which kind he has determined by his own natural abilities and likings.

The institution has a certain curriculum that he must pass through in order to attain the first step toward his goal. He accepts the judgment of the school in the curriculum as handed to him and is mainly interested in fulfilling the requirements of the curriculum so that he may graduate and begin working in his chosen profession. It then remains for the school to prepare a course of study for each particular branch of engineering or department that will best fit the graduate for his work. The school does this to the best of its ability. This, of course means that from time to time, there are changes made and this is the point at which we are now.

From what experiences we have had so far in pursuance of our academic duties it appears that there are certain general qualifications which an engineering college education should give a man. It should give him a definite technical knowledge and slide rule characteristics which are his marketable commodities.

It should also give him something that is more than technical knowledge—a something without which a college education is simply not a college education. It has been called by various names. Among them is a "broad outlook." It is only attained through purely cultural subjects and pro-

## "The Slipstick"

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

Byrd's Southern weather reports have nothing on our April weather which is not ideal for baseball as illustrated by the ardent softball players on Ogden Field, who are playing with their shirt sleeves rolled up (*under heavy sheep lined coats*). This offers thought for this beautiful spring poem:

The April snow  
Brings May Showers,  
And then June flowers  
Oh time, why fly so slow.

"What was that riot at the Southtown last night?"  
"There was a delegation from the Pepsodent Company and they all started shouting, *Remove the film.*"

Professor: "What is the mechanical advantage in having a pump with a long handle?"  
Student: "So's you can have some one help you pump."

"Did Ben like your new sofa?"  
"Well, he complimented me on it."

Don: "I can't see what keeps you women from freezing?"  
Jane: "You aren't supposed to, big boy."

**Voice of Experience**  
There is one place where silence reigns  
At good old Armour Tech,  
And there it rains so bloom'ing hard  
It makes Nell sore as heck.  
If you talk loud, she sends you out,  
But she's not really mad,  
And if she fumes you for a book  
It makes her oh so sad.  
But one sure way to get a start,  
Toward the great gates nearby  
Is take an over night book out  
Half an hour early. D. S. D.

"I'd like a couple of hard boiled eggs to take out," said the student to the girl at the lunch counter.  
"O. K., kid," came back the skit, dimpling, "Mame and I'll be off in ten minutes."

Eng'r: "What are you taking up?"  
Student: "Advanced Physics."  
Eng'r: "Oh—I see, Space and Time, huh?"

"What is it that lives in a stall, eats oats, and can see equally well at both ends?"  
"Don't know."  
"Blind horse."

Soph: "Where's your pot?"  
Frosh: "But we don't have to wear them on week-ends."

**Hydraulics Exam Exposed**  
Question: Name and discuss losses in pipe lines.  
Answer: Friction losses. These occur when the water rubs against the pipe. To prevent rubbing buy Edgeworth Ready Rubbed, 15¢ a tin. Bend losses. These occur when the water bends, (didn't ya? Well, I never saw it bend either.) These can be removed by cold working or by dancing with the bend at the Union. Discharge losses. The best thing to do here is to say, "You can't fire me, I quit!" Sewer losses. I lost a nickel in a sewer pipe once but I don't know what to do about it.  
What is "head lost in an orifice"?  
Oliver Cromwell lost his head in an orifice.  
Discuss "hoose coefficients."  
If washed in Lux, hoose coefficients go up according to a logarithmic function, which varies directly as the angle of the heel. The intersection of the wool and the silk curves is the point of maximum efficiency.

In days of old  
When nights were cold  
It took two fleeces from the fold  
To dress a lady fair.  
But in these days of jazz and bob,  
A little silkworm does the job  
With time galore to spare.

My roommate says there are a few things a girl shouldn't do before twenty.  
Well, personally; I don't enjoy such a large audience either.

The warden said they weren't going to let me out until I've learned the carpenter trade.  
I've got to be a conductor before I get out.  
A conductor of what?  
Electricity.

So long fellows, Here's hoping you don't get too many of those dreaded valentines. R. H.

vides a firm foundation upon which technical knowledge can rest.

These qualifications seem paramount and to provide for them should be the aim of any institution of higher learning.

This is the first of a series of editorials under this general classification. Next week's editorial will be a continuation of the discussion begun in this one.

## OTHER CAMPUSES

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

A lot of Harvard men are "conceited, inconsiderate, spoiled children," according to a waitress in the Harvard Union.

"Where is Junior?" is the new slogan of Kent State college students, who are hunting for Ramon Antonio Segura Llanday y Escandon, Jr.

A pun note from the Los Angeles Junior college "Collegian": Pasadena Junior college recently spent \$100,000 for temporary tent housing alone; class work there probably will be intense this year.

The subject of a recent group debate at Concordia college in Moorhead, Minn. was: "Resolved, that a house burns up and not down."

A trailer of live pigs was accepted by officials of St. Viator college in Bourbonnais, Illinois as payment in full for a year's tuition. The pigs will be used to make pork sausage for the college restaurant.

Harvard students are offering their services as part time nursemaids and cooks to the busy housewives of Cambridge and Boston to help earn their college expenses. It is estimated that about 40 per cent of the undergraduate body are seeing part time employment. Is this a reason why Harvard men are so popular with the women?

A new secret brotherhood in Alabama college is called "Flunk Darnit Flunk."

From Santa Monica Junior college exam papers come the following facts: A taxidermist is a kind of thick fog; a torador is a really bad storm; pooling—a practice indulged in by young men about town.

A professor at Oklahoma A. and M. recently dropped a course. His reason?—"This class is lousy."

The following comes from an ethics class at the University of Minnesota: "I will lecture today on liars. How many of you have read the twenty fifth chapter?"

Nearly every one in the class raised his hand.  
"You're the very group to whom I wish to speak," said the professor. "There is no twenty-fifth chapter."

The school doctor at Carnegie was giving a physical examination to a group of athletes out for swimming. When the good doctor came to the eye test he said, "Now just read the top line of that chart on the wall."  
Three of the athletes answered, "What chart?"

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 Laves, warden of Sing Sing; Walter Lippman, editor; Sinclair Lewis, novelist; and H. L. Mencken, critic. They were identified as follows: Lewis Laves, banker, politician, statesman, doctor; Walter Lippman, lawyer, gangster, plumber, governor; Sinclair Lewis, carpenter, digger, murderer, explorer, radio announcer, gangster; H. L. Mencken, butcher, beer baron, mill worker, bandit, degenerate, and senator. Could these men be fooling us?

"Doctors bury their mistakes; I make mine into usage," said Prof. Braccioni after he discovered that Louisiana State university's prize-winning sow was butchered by mistake by the meat-curing class.

The story is going around that a plobe at West Point sent the following letter home: "Dear Aunt Jane: Thanks for the cake. The piece I got was fine."

Down in Louisiana State university the southern gentleman took their exams in style. At the last one, hot chocolate was served.

## The Honoraries

PHI LAMBDA UPSILON  
Honorary Chemical Engineering  
Fraternity

Phi Lambda Upsilon, honorary chemical engineering fraternity, was founded by the senior chemistry students at the University of Illinois in 1899. Their purpose in founding the fraternity was to install chapters of the society in other institutions with the object of promoting high scholarship and original investigations in all branches of chemistry. This policy was followed, and, to date, chapters have been granted to twenty-eight active chapters, and one alumni chapter. The total membership is about four thousand.

Through the efforts of two members of the faculty, Professor C. A. Tibbals and Mr. F. C. Smith, an instructor in chemistry at that time, Omicron chapter of Phi Lambda Upsilon was installed at Armour Institute of Technology in 1920. Both of these men were members of this honorary chemical fraternity in their collegiate days, so they organized a group from the senior and junior classes at Armour and obtained a charter. Professors H. McCormack, and W. J. Bentley who was then a student, were among the original members.

### Election Is Semiannual

The election of students to membership in Phi Lambda Upsilon takes place at the beginning of each semester. Admission into this fraternity is limited to members of the junior or senior classes in chemical engineering having the highest scholastic average.

Scholarship is the basis of election. It is determined by averaging all grades, giving the chemical grades twice the credit value of the others. The vote on scholarship must be unanimous, but the personality of the student is considered only insofar as it pertains to good habits, neatness, and honesty which are the requisites of a good chemist.

### Emblem Signifies Aromatic Series

The general shape of the emblem of the society is hexagonal. This shape is to represent an important type of organic compound, the aromatic series. On the outer band of the emblem is represented the formula of ortho-bromo-toluene as a

## Faculty Members Visit Universities

The faculty of the electrical engineering department found itself spending a very busy week-end last week. Professors Snow and Freeman visited the electrical department of Purdue University, inspecting its equipment and also its radio station. From there they went to the University of Illinois, where the 1934 electrical show was in progress. Others of Armour's electrical department were in attendance as well. This electrical exhibit has assumed a real importance in its field. For over a quarter of a century the students at the University of Illinois majoring in electricity have organized and conducted these shows.

### Students Make Many Exhibits

The object of the exhibit is to acquaint engineers with the recent developments in radio, lighting and electrical apparatus. Most of the exhibits are made by the students themselves but some were borrowed from the large electric companies and also the World's Fair.

The class in industrial studies under the direction of Professor Freeman visits an affair of this kind each week. While the class as a unit did not attend the show at Urbana, the majority of the members visited on their own initiative.

### Plan Visit to Power Substation

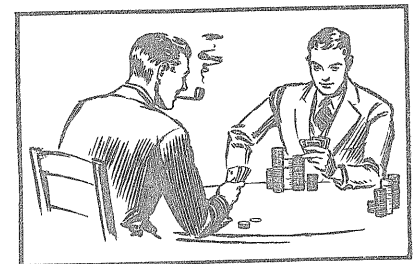
This week the class plans to visit the Edison substation on Kolmar avenue. This station is by far the best equipped of its kind in Chicago and probably a much greater area in addition. These trips have become very popular with the members of the class and have proved to be very interesting as well as educational.

typical aromatic organic compound. Red and blue, the colors of litmus, are the colors of the pledge ribbons.

The faculty members of Phi Lambda Upsilon are Professors H. McCormack, A. H. Carpenter, C. A. Tibbals, and W. J. Bentley.

The active members of this honorary fraternity are the following: W. E. Gunderson, president; R. W. Marty, vice-president; D. J. Mullane, treasurer; F. C. Noerenberg, secretary; K. C. Eberly, alumni secretary; E. P. Renstrom, and J. N. Weiland. The pledges at the present time are A. F. Kapecki and R. D. Armsbury.

## "WHEN A FELLER NEEDS A FRIEND"



When you can't draw a pair . . . you can draw pleasure from a pipeful of BRIGGS. Aged in wood for years . . . BRIGGS is mellow, fragrant, bite-free. You can pay twice as much for tobacco . . . not half so good. Won't you let BRIGGS win you in its own mild way?

