



SIDELINES

By Albert M. Lane
A SUMMER of diplomatic and political turbulence gives way to autumn, and the world struggles on in a turmoil of unrest and breathless expectancy. The Italo-Ethiopian situation grows more tense hourly. The crisis cannot be far in the offing. The sparring must soon be at an end, for the game of thrust and counterthrust has about worn itself out.

IT IS DOUBTFUL that Mussolini intends to execute his threat of Ethiopian conquest and subjugation. Rather, it is more likely that his scheme incorporates little more than a cleverly designed plot for international blackmail, the play being directed toward acquisition by concession of the share of colonial land that all Italy feels she should have gotten as her reward for allied participation in the World War. Mussolini rose to power on the wave of popularity he stirred into motion through his post-war writings in demand of territorial rewards for Italy. To stem the ebb of his political popularity he has again seized upon the expansion ambitions of his countrymen, and the reaction has been favorable beyond his fondest hopes. Leave it to the Duce to make the most of it.

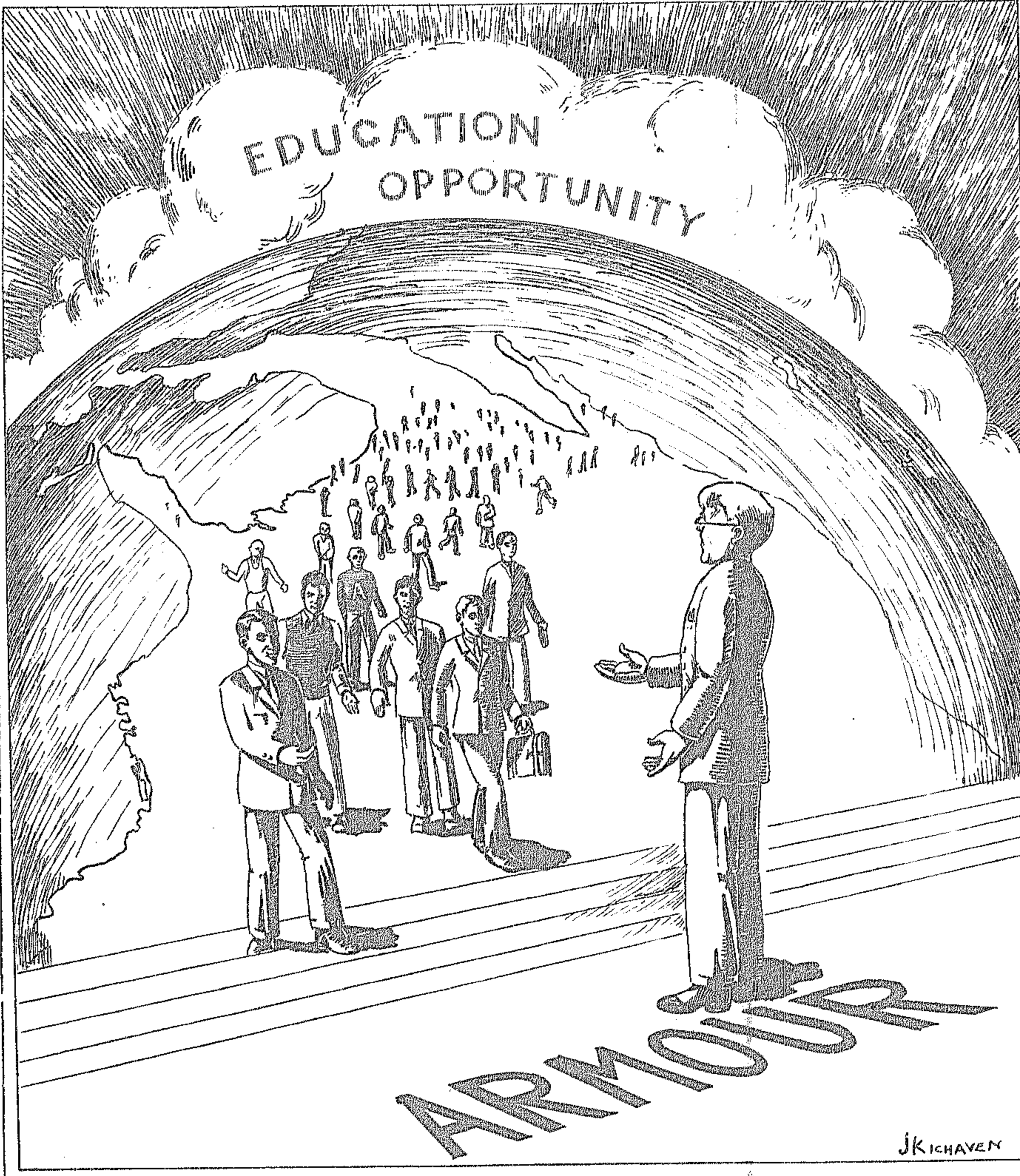
HIS GESTURE, wholly unsanctioned by his people at its inception, now has the united support of all Italy, the change of attitude having been accomplished through a relentless and unscrupulous campaign of press propaganda. With the war fever raging throughout the country, the Duce has the League in a state of consternation and he is playing his hand to the high limit. His only compromise will be the sale of peace for territorial concessions into which Italy can expand and from which she can procure sorely needed low cost raw materials—oil, coal, cotton, wool, iron, rubber, etc. So long as he adheres to threats, he has a fair chance of gaining his end. If he resorts to war, he is doomed to failure, and no one knows that more surely than does Mussolini himself.

THE DECLARATION by sixteen League members of concerted action against Italy if she perpetrates an aggression against Ethiopia is a high compliment to our state of civilization. When a people has attained a sense of responsibility toward the preservation of world peace and the extension of the function of government to the safeguarding of man's inalienable rights on an international scope, that people has advanced to a state of enlightenment never heretofore achieved. May the declaration be held ironbound and so give rise to a League of Nations revered by the world and feared by all who would transgress upon a weaker brother.

Soil Mechanics to Be Given as Civil Course

Because of increased interest of the Civil Engineering field in Soil Mechanics, a lecture course supplemented by notes and typical problems illustrating the theory will be given for Senior Civil Engineering students during the first semester. Professor Herbert Enszt who has been conducting a post graduate course for several years in Soil Mechanics has outlined a course suitable for undergraduate study.

Attention is called to a recent book "Vocational Guidance in Engineering Lines" prepared by the American Association of Engineers in which the editors state that Foundation Engineering is one of the most promising professions for engineering graduates. They recommend that students interested in this field give special attention to a study of the mechanics of soils, which has become the basis for designing foundations.



JUNIORS AND SENIORS TO START SHOP WORK; OTHER CLASSES TO BEGIN LATER

Electricals and Mechanicals First to Benefit; Two Year Recess Does Not Interfere With Other Curricula

PEARL AND GATELY TO TEACH REVISED COURSES

The course in Heat and Radiation, Physics 301, required in the engineering science curriculum, will be opened to students in other departments this semester. Those interested should register with Professor Thompson or any other member of the physics department on the regular registration day. The course will be given on Saturday morning.

Augmented by two instructors, one of whom has taught shop here previously, the department of mechanical engineering is again offering the shop courses which had been discontinued for the past two years. The first classes to benefit will be the juniors and seniors in the mechanical and electrical departments. Following the recommendations in the report of the faculty committee on shops, which was made public last year, members of the chemical and fire protection engineering departments will be required to take one year of shops to be taken in the senior year. In the civil and science departments shops are elective. Since the present seniors have already had one year, the complete shop program will not begin until September 1936.

Office Prepares Student Ratings

Scholastic standings compiled by the Office of the Registrar for the College of Engineering and Architecture, for the second semester of the school year 1934-1935 reveal that Armour groups have but little respect for priority as far as scholastic records are concerned. The Junior class topped all others while many of the younger fraternities outshone their elder brethren.

The average of the entire student body, a total of 738 students is 1.65; 3 is a perfect A average. Grades in physical education are omitted.

The average of the various classes are as follows:

Senior Class	1.82
Junior Class	1.85
Sophomore Class	1.56
Freshman Class	1.41
Of the men who lead their respective classes, both Raymond Maci and Russell Johnson have done so during the last year.	
Senior Class—	
Raymond J. Maci	2.85
Junior Class—	
Russell R. Johnson	2.96
Sophomore Class—	
William B. Graupner	2.93
Freshman Class—	
William R. Marshall	2.94

In computing the department averages, the first year men are excluded.

Engineering Science 2.08
Fire Protection Engineering .. 1.93
Chemical Engineering 1.79
Electrical Engineering 1.73
Mechanical Engineering 1.70
Civil Engineering 1.67
Architecture 1.51

Since the architects are graded on a different basis, no fair comparison of their departmental ranking can be made.

Among the honorary organizations, Tau Beta Pi heads the list. Honorary Fraternities—

Tau Beta Pi	2.56
Phi Lambda Upsilon	2.48

(Continued on page 2)

WANTED

Applications for positions on the reportorial staff of the Armour Tech News will be received Thursday, September 26 in the offices of the News, fourth entrance, second floor, Chapin hall, between the hours of one and five. Freshman and sophomore students are eligible.

While a knowledge of journalistic English is not imperative, a willingness to do conscientious work is a definite requirement. Freshmen who are interested in newspaper work, or who think they may become interested, are urged not to wait till the second semester or the second year to commence working for the News.

New men on the staff will have their choice of working on the editorial staff, the sports staff, or the business staff.

Tau Beta Pi Plans Reunion on Nov. 7

Plans are being made for the reunion of the active and alumni members of the Armour Chapter of Tau Beta Pi, the national honorary engineering fraternity, with the tentative date set for Friday evening, November 7.

Armour alumni who are members have been notified and invitations may possibly be sent to Tau Beta Pi members from other schools in the Chicago area.

Seven Active Members

At present, the Armour Chapter has seven active members. This number will be increased at the customary election of members to the fraternity within the third week of school. At this time the upper eighth of the junior class and the upper quarter of the senior class are eligible. It has been the custom to pledge only one junior at this time. After the end of the first semester another election of pledges will be held.

The officers for the coming year are J. O. Larson, president; H. S. Nachman, vice-president; R. M. Paulsen, recording secretary; H. P. Milleville, corresponding secretary; and R. A. Peterson, catalogueur.

National Convention Coming

Shortly before the reunion, the national Tau Beta Pi convention will be held on October 10, 11, and 12 at Michigan State College in East Lansing, Michigan. J. O. Larson has been chosen delegate and H. S. Nachman alternate.

Alpha Chi Sigma Will Hold Smoker, Reunion

Alpha Chi Sigma, professional chemical fraternity, will hold its alumni smoker and reunion on October 9 at the Chicago Craftsman's Club. Besides the members and pledges of the Armour Chapter, Alpha Psi, the Northwestern University chapter has also been invited for an evening of games and beer.

ARMOUR OBTAINS SIX PROFESSORS; FOUR HAVE LEFT

Potter Was Once a Physicist at Bureau of Standards

Six new faculty members will greet the students of Armour Tech as the Institute begins its forty-third year. Two of the men are additions to two departments while the remaining four new instructors replace those who have left the Institute staff.

Dr. William Pearl is the new instructor in the engineering shop course. He graduated from Washington State College with the degree of B.S. and completed the work for a master's degree at that school. Dr. Pearl also holds a Ph.D. in mechanical engineering from the University of Michigan.

New Instructor in English

Mr. James Potter has been added to the staff of mathematics instructors. He holds a B.S. from Princeton and a master's degree from New York University. Work for his Doctor's degree was taken and completed at Yale. Mr. Potter has taught at Massachusetts Institute of Technology, New York University, and has also been a physicist for the Bureau of Standards.

Elder Olson replaces Mr. Clair C. Olson as instructor in the English courses. Mr. Olson is a graduate of the University of Chicago, also taking his master's degree there. He has won many prizes in literature and is a well known writer.

Sager to Teach German

Hanns Fischer's place as language instructor will be taken by Mr. Henry Sager who will teach German. Mr. Sager graduated from the University of South Dakota, took his master's degree from the University of Chicago, and is working on his doctor's degree now. He has taught at the Frances Parker and the Chicago Latin Schools.

An Armour alumnus, Mr. Harvey (Continued on page 4)

Six Scholarships Awarded Seniors

As a material tribute to their outstanding work and activity as students of Armour, the President has awarded scholarships to six seniors. The recipients of the scholarships are: Charles P. Boberg, E.E.; Frank D. Cotterman, M.E.; Russell R. Johnson, C.E.; John O. Larson, C.E.; Howard P. Milleville, Ch. E.; and Wesley S. Weiting, Arch.

To Johnson goes the Edward G. Elcock scholarship. The Elcock scholarship is awarded to an outstanding junior or senior student in the department of Civil Engineering.

Both Cotterman and Larson are recipients of the Isadore Prenner scholarship, while Boberg and Milleville received the Bernard E. Sunny scholarship.

The Mrs. Catherine M. White scholarship goes to Weiting.

New Engineer to Be Published in October

Transforming the 'Armour Engineer' from a magazine of purely undergraduate interest to one in which alumni will be well represented, and compiling a graduate mailing list for the revised publication have occupied the time of the staff and Prof. Moreton of the Alumni Association during the summer months.

Approximately 2400 cards were mailed, half of each to be filled out with information concerning the alumnus and returned to the Alumni Association. The new magazine, called "The Armour Engineer and Alumnus," will be mailed gratis for one year to all those returning cards. To date, approximately 1,000 returns have been received.

In addition to containing the usual articles of general and engineering interest, the new quarterly will present up-to-date information on all school, student and alumni activities to a greater extent than has been the custom in the past. It is planned to have the first issue, published in October, consist of about 24 pages.

49958

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Something to Consider

In a few more weeks, the classes will be engaged in forming their organizations for the coming year, and as the usual cries of "politics" are raised by a few dissenters, the departmental groups will be cementing their alliances and making their preparations to push into office as many from their own department as their numerical strength will allow. Protests against such proceedings have been raised for so long with no material results, that it might begin to appear that nothing is ever going to be done about them. Nevertheless, realizing what a really good class organization can do toward making the school year a pleasant and enjoyable one, it seems too bad that the officers are to be chosen amongst such dissension and with so little opportunity for the entire class to make a considered choice.

Last year, the class of '36 went to its nomination meeting knowing that a clique composed of two departments was prepared to put into office a slate chosen entirely from their own groups. But so powerful was the feeling against such a proceeding, even among the two groups themselves, that no final nominations were ever made at that meeting, the final slate being prepared later by a nominating committee.

What we need to realize is that, in the nature of things at Armour, departmental loyalty is stronger than class loyalty. It cannot be otherwise, with small departmental groups working together in what is almost isolation from the rest of the class at all times after the freshman year. To attempt to elect representative officers for the entire class from such a set up of closely knit groups is a mockery. When we really want to achieve something, we recognize this readily enough. Class committees are nearly always made representative of all the departments, and last spring, the junior class allowed each department to select an assistant junior marshal from its own roster.

After all, everyone realizes that, for the most part, the present class offices are merely honorary positions. The only ones who have anything to do are the president and the social chairman, and their work is nearly always done with the aid of a committee. Why not start with the committee? Every object that is aimed at in a class organization could be attained with an executive board composed of representatives selected by the various departments, and such a form of class government would completely eliminate the dissension and discontent that always seems to attend class elections.

"The Slipstick"

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

Greetings readers! Welcome home! etc. etc. Don't tell us, we know. With a mind clogged with fees, programs and coming quizzes you seek relief in the Slipstick, the only remedy for a sluggish system (mental).

Local Drama

One Armour fresheie who suffered from a vivid imagination and died a dozen deaths a day, all because of his over-nervousness about his health. One day he sought Doc McNamara's office and staggered toward a chair, into which he sank without straightening up.

"This is the end," he moaned as the doc entered the room. "Without warning it came on. One moment I was sitting up straight, the next I found I could not lift my head." Hurriedly doc made an examination and said: "You will be all right the moment you unitch the third buttonhole of your vest from the top button of your trousers."

N. Y. A. overseer: "See here buddy, that other fellow is carrying two sticks of timber when you're carrying only one. What have you got to say?"

Buddy: "That fellow's too lazy to go twice."

"Here's a fellow who just patented a contrivance for preventing girls from falling out of rumble seats. What do you think of the idea?"
"I don't like it at all. It's just another move to displace men with machinery."

THE TRUCK GARDNER'S LOVE SONG

You're the apple of my eye, my love.
A No. 1 you rate.
What a handsome pear we two would make.
When can I have a date?
You're beautiful, my sweet pea.
I think you are a peach.
One kiss from your cherry lips,
And gosh, I need a leech.
You're as graceful as the woodland nymphs,
You're as sprightly as the fairies.
You've radish cheeks that can't be beet.
I think you are the berries.
My celery is large enough
To support us both, my sweet.
'Cause two can live as cheap as one,
Provided one don't eat.
For you, my sugar-plum, I'd get
A fourteen carrot ring,
And on that fruitful day, my love,
My heart to you I'd bring.
Sometimes I call you grapefruit,
But you know the reason why.
'Cause every time I squeeze you,
You hit me in the eye.
My love for you will never die.
My love is never fickle.
I hope that your love is the same,
Or else I'm in a pickle.
I love you, little sweet pea,
But I'm afraid we cantaloupe.
'Cause your mother is a lemon,
And your old man is a dope.
Edward J. Pleva.

Wetzel: "I think that new girl in our office has a soft spot in her heart for me. She says she's always thinking of me."
Prinzl: "Why man, a girl doesn't think with her heart. The soft spot must be in her head."

The American tourist dropped into the barber's chair and after the usual questions, conversation began.
Barber: "What do you think of the Italo-Ethiopian situation?"
Tourist: "Ho! Hum! Guess it will come all right."
Barber: "What do you think of Mussolini?"
Tourist: "Precisely what you think."
Barber: "What do you mean?"
Tourist: "Well, you've got the razor, haven't you!"

What's the Difference?

Teacher: "What is half of eight, John?"
John: "Which way, Teacher?"
Teacher: "What do you mean, which way?"
John: "On top or sideways?"
Teacher: "What difference does it make?"
John: "Well, half of the top of eight is zero. But half of eight sideways is three."

"Bredren," said the colored preacher, "you have come to pray for rain. Bredren, de foundation of religion an' faith. Whar is yo' faith? You comes to pray for rain and not one of yo' brings his umbrella."

She: "Now that we are engaged we must begin to economize. So you must promise me that you will not do anything you can't afford."
He: "If I make that promise then I will have to break off our engagement."

Fortune teller: "I see great trouble ahead of you. For 3 years you will suffer and then —"
Fresheie: "And then?"
Fortune teller: "And then you will be so used to it that you won't notice it."

Keezer: "What's that man on the corner doing with that camera? He's been standing there all day."
Geezer: "He's an inspector from Washington watching a chance to take a moving picture of these relief workers at work."

J. G.

Fraternity Notes

THETA XI

All of the members of Theta Xi Alpha Gamma chapter of Theta Xi have turned to school this fall with one exception. We regret very much that brother Glos E.E. '36 is unable to continue his course this semester. The brothers after a combination of working and vacationing are thinking of high scholastic attainments and winning the new interfraternity scholastic award for their efforts.

PHI KAPPA SIGMA

Alpha Epsilon Chapter of Phi Kappa Sigma is prepared to welcome the incoming Freshmen. An attractive rushing program has been arranged to acquaint the Freshmen with the house and its members.

Brother Koehler and Pledge Brother Donnelly have transferred to the University of Illinois and are well established in the Chapter house there. The three graduating seniors of last year are all working at their respective bureaus Brother Beigler at the Chicago Board, Brother Wheaton in Cleveland, and Brother Marow in Rockford. We regret to announce that Brothers Stehman, Skeppstrom, and Thornton will not return to Armour in the fall. Brothers Skeppstrom and Stehman are working in the city, and Brother Thornton is working in Milwaukee. Brother Stehman is going to night school, however, and hopes to return in February.

Brother of the Rho Chapter spent the night at the house last Wednesday while travelling through the city.

RHO DELTA RHO

For many years the Rho Deltas have been a close second in scholarship ranking among the social frats. Now we are pleased to learn we have stepped out in front; thus winning the interfraternity scholastic award.

With but one exception all the active members are returning back to school. Abe Mandelowitz, M. E. is at present working. We hope he will soon be back with us. After their long summer lay off, the brothers are eager to get back to school and continue the good work.

AVERAGES

(Continued from page 1)

Eta Kappa Nu	2.47
Chi Epsilon	2.41
Salamander	2.40
Pi Tau Sigma	2.29
Pi Nu Epsilon	1.80
Honor Society—	
Sphinx	2.23
Professional Fraternities—	
Scarab	1.73
Alpha Chi Sigma	2.28
Social Fraternities—	
Rho Delta Rho	2.03
Pi Kappa Phi	2.01
Theta Xi	1.89
Sigma Alpha Mu	1.76
Delta Tau Delta	1.70
Kappa Delta Epsilon	1.63
Triangle	1.58
Phi Kappa Sigma	1.49
Phi Pi Phi	1.41

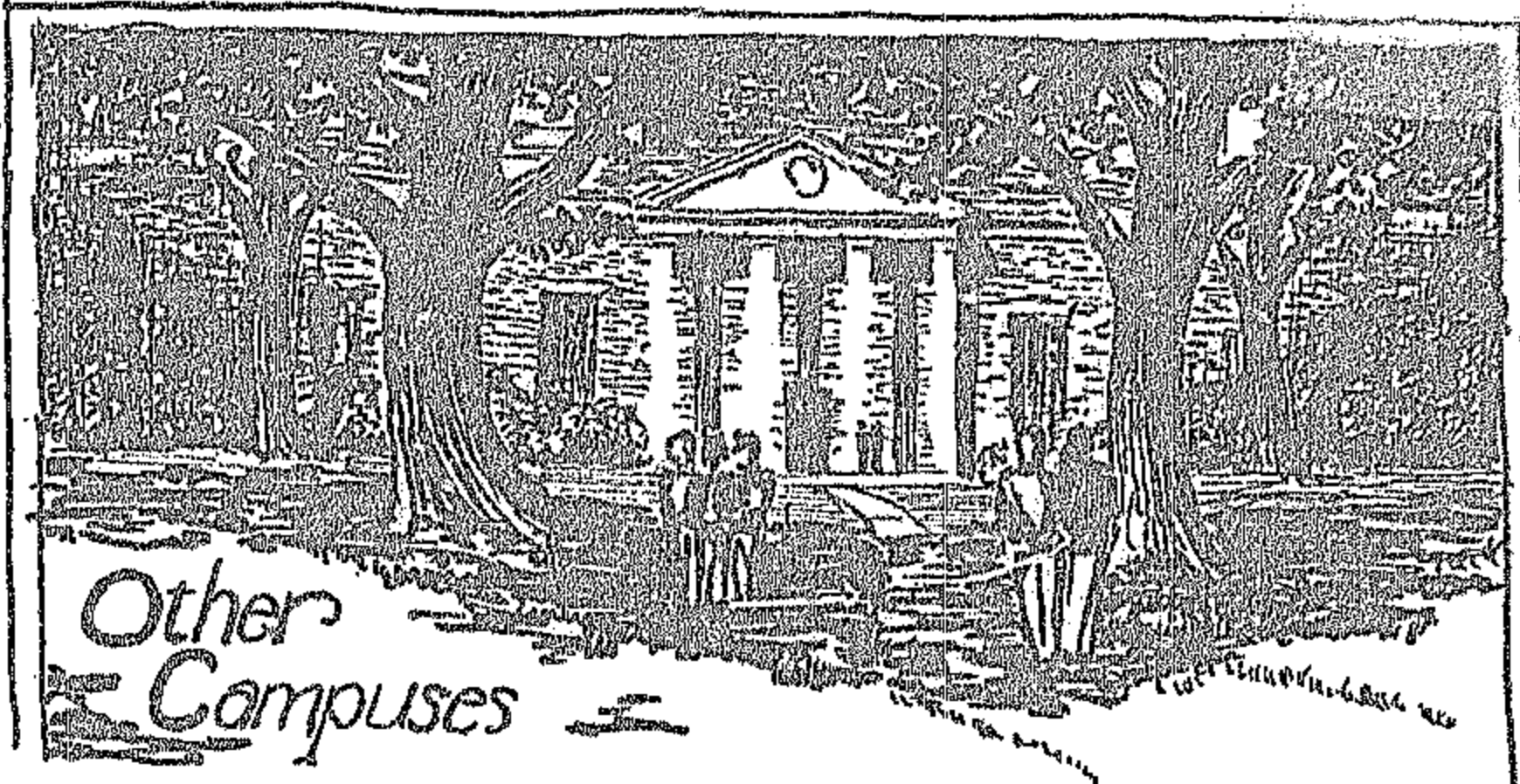
The average of all students belonging to Phi Kappa Sigma, Delta Tau Delta, Phi Xi Phi, Phi Phi, Triangle, and Pi Kappa Phi fraternities (fraternities that own or rent their chapter houses) is 1.69; while the scholastic average for the school as a whole is 1.65.

In computing scholastic averages, an A is 3 grade points, B-2, C-1, D-0, and E-0. The number of grade points is multiplied by the credit hours of the course. The sum of the products is then divided by the total credit hours.

A credit for work at other institutions was considered equivalent to 1 grade point if the students scholastic standing for work at other institutions was below 2 grade points, to 1.5 if equal to a more than 2, and to 2 if equal to or greater than 2.5.

Junior Is Appointed New Handbook Agent

Successor Algird Rulis, Warren F. Schreiber Jr., has been appointed as the Armour representative of the Chemical Rubber Company. Schreiber, a junior chemical engineer, sells the "Handbook of Physics and Chemistry," two editions of the mathematical tables published in the handbook, and other accessories.



Ninety-eight percent of the Vassar College students are opposed to military training.

This drew a yelp of delight at a luncheon at the University of Minnesota (Minneapolis) recently when a professor described the difference between a university and an insane asylum.

"You have to show improvement to get out of the asylum," said the aforementioned prof.

Only 25 percent of the men who have applied to the student date bureau at the University of Toronto Canada have a preference for blondes.

A five-day school week with no Saturday classes is being petitioned by University of Georgia undergraduates.

The Newcomb college debating club in New Orleans debated the question: "Resolved that Santa Claus should wear a green suit instead of red." They failed to propose a new costume for Cupid for the winter season. ("Esquire" fashion notes please copy.)

At St. Thomas College, Minnesota, the students insure themselves against being called on in class for the small fee of 25 cents.

A survey (what, again?) at Harvard revealed that the average student carries 22 cents.

A champion copy of the University of California is a theology student.

A butler at the Lambda Chi Alpha house at the University of Alabama has named three of his off-

Testing Lab is Kept Busy During Summer

More activity than has been seen in the past five years was experienced in Armour's materials testing laboratory during the past summer, according to Professor Huntly, head of the mechanical engineering department.

Most of the work done was in the usual line of testing the strength of bolts, ropes, belting, and other products. One investigation was made to check the fitness for service of a wrought iron boiler in use for 43 years, while another report concerned itself with the strength of band saw blades and the forces operating in the cutting of various woods.

The latest problem which the departmental testing service is investigating is the wearing of clutch facings. A machine designed for this test is planned to wear out the facing at high speed in a few minutes as compared to the months an automobile service test would take.

Howard Milleville to Fill Publicity Position

Endeavoring to continue and expand the publicity work of last year, Howard P. Milleville, '36, has been appointed as student publicity director to succeed Leroy J. Beckman. Milleville will be assisted in his work by Alexander P. Schreiber of the junior class.

The work of last year, which will be continued, consisted mainly of writing up important events at Armour—scholarships, dances, and athletic events—and having them printed in the daily newspapers and local publications in the city and suburbs. Such articles help to keep the name Armour before the public.

Milleville requests that heads of honorary fraternities, professional organizations, clubs and athletic teams cooperate with him fully. This will facilitate the release of news items.

Thomas H. Watts
Ninety-eight percent of the Vassar College students are opposed to military training.

Putting at the University of Texas has reached a new high. The students now spend their evenings in the university park, which is well guarded by special police—who do not disturb the petters. (Yes, but did you ever see a gal that wasn't nutty about a uniform?)

The professors at the University of Michigan got busy and formulated 15 plans to keep the students. Wonder if they thought of growing a moustache.

A small tin cup in the office of the school of agriculture at the University of Minnesota has printed on it: "For Aspirin. Appendices deposit money here to buy headache tablets for struggling fellow students."

Sparks College at Sparks, Georgia, was destroyed by a spark in 1927.

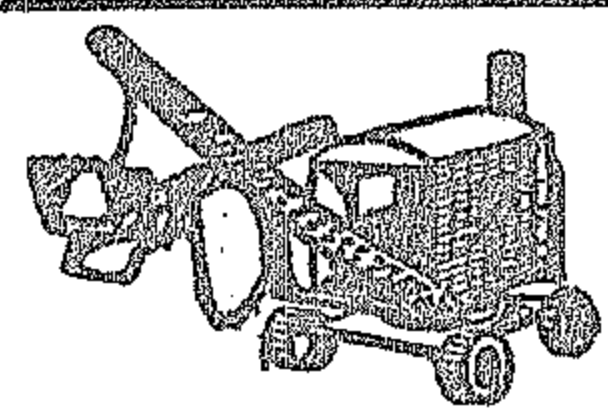
University of Santa Tomas (Manila, P. I.) is the oldest university under the United States flag. It celebrated the 200th anniversary of its founding on December 6, 1834.

Tulane University College of Arts and Sciences has dropped the honor system after it has been in force for 50 years.

Reynolds Will Give a Recital on October 2

Kenneth E. Reynolds, assistant in the physics laboratory, has announced his forthcoming recital, which is to be held on Wednesday, October 2, at 8:30 p. m. in the Englewood Y. M. C. A. Reynolds is a member of the Chicago Comic Opera Company and appeared in the Gilbert and Sullivan operetta "Ruddigore" last year. Reynolds is also a member of the Chicago Lyric Singers octette, which is directed by Mr. Maurice Ivins, who has given Reynolds a scholarship to study voice for as long a period as he wishes. Admission to the recital will be free of charge.

THE STEAM SHOVEL



Ahoy! mates and welcome Freshies. If you don't know and can't guess, the name Steamshovel implies "digs up the dirt." So spare not the pen (or pencil) when a friend or enemy is implicated in some "activities" which make Steamshovel material. (Hand in contris to box near elevator).

Such is the irony of fate. Howie M. Bolton who physically, verbally or mentally defended his moustache for four long years, finally fell victim to the butchers (or barbers—same difference) upon completing his last hour of work at camp.

Bucky O'Connor would certainly be grateful if somebody invented a better grade of "transit glue." "I just pick it up and the top popped off," he said.

JOHN KAHLES had an experience with a skunk during the summertime. With the proverb "quickly removed his shoes and saved the day!"

We hear that AL RAGAN didn't find the Sears truck drivers very polite listeners to his humor. "O mine Esser," says Al.

Complete Program Schedule

Abbreviations: Hours—I (8:30-9:20), II (9:30-10:20), etc.; Aft. (2:00-5:00). Rooms—Dr. (Drafting Room), P.L.R. (Physics Lecture Room, Second Floor Main), E.L.R. (Electrical Lecture Room, Second Floor Main), Sc.H. (Science Hall, Third Floor Main). Buildings—Ma. (Main), Ms. (Mission), CH (Chapin Hall), M.H. (Machinery Hall), U.L. (Underwriters Laboratory), A.I. (Art Institute).

MECHANICAL ENGINEERING

Elem. Mach. Drg.—101	(a-c) Aft. (Daily) Dr.-Ma.	Hammott
	(f) I-III (S.) Dr.-Ma.	Hammott
Desc. Geom.—103	(a) I (M.W.F.) H-CH	Hammott
	(b) II (M.W.F.) H-CH	Swineford
	(c) III (M.W.F.) H-CH	Seegrift
	(d) IV (M.W.F.) H-CH	Hammott
	(e) V (M.W.F.) H-CH	Swineford
Mechanism—201	(a) IV (M.W.F.) A-Ms.	Swineford
	(b) V (M.W.F.) A-Ms.	Perry
Mach. Drg.—203	Aft. (T.F.) Dr.-CH	Winston
Mach. Dsgn. (E.E.)—205	II (M.W.F.) A-Ms.	Huntly
Mach. Dsgn. (Ch.E.)—205	(a) I (W.) E.L.R.	Swineford
	(b) IV (T.Th.) E.L.R.	Swineford
	(c) V (M.W.F.) A-CH	Swineford
Valve Coars—301	(a) III (M.W.Th.) B-M.H.	Perry
	(b) IV (M.W.Th.) A-M.H.	Perry
Adv. Mach. Drg.—303	Aft. (M.W.) Dr.-CH	Swineford
	Aft. (F.) Dr.-Ch	Perry
Eng. Thermo.—305	(a) I (Daily) A-M.H.	Nachman
	(b) III (M.T.W.Th.) A-M.H.	Nachman
	IV (F.) A-M.H.	Nachman
Exp. Eng. (M.E.)—308	Aft. (M.W.F.) Lab.	
	I-III (S.) Lab.	
	V (M.) B-M.H.	
Exp. Eng. (E.E.)—310	Aft. (Daily) Lab.	
	V (F.) E.L.R.	
Exp. Eng. (C.E.)—310	Aft. (M.F.) Lab.	
	I-III (S.) Lab.	
	V (M.) A-M.H.	
Exp. Eng. (Ch.E.)—310	Aft. T.W.) Lab.	
	V (T.) B-M.H.	
Exp. Eng. (F.P.E.)—310	Aft. (Th.F.) Lab.	
	V (Th.) A-M.H.	
Exp. Eng. (Sci.)—310	Aft. (Th.) Lab.	
	V (Th.) A-M.H.	
Mech. Equip.—314	II (T.Th.) A-Ms.	Seegrift
Elec. Thermo.—316	I (M.W.F.) B	Winston
	II (M.W.F.) B	Winston
Mach. Drg.—317	Aft. (W.) Dr.-CH	Winston
Eng. Shop (M.E.)—318	Aft. (T.Th.) Shop	Pearl
	V (W.) A-M.H.	Pearl
Eng. Shop (E.E.)—318	Aft. (T.W.F.) Shop	Pearl
	I-III (S.) Shop	Pearl
	III (W.) E.L.R.	Pearl
Stm. Pwr. Pl. Eng.—401	II (M.W.F.) A-M.H.	Nachman
Stm. Pwr. Pl. Drg.—403	Aft. (T.W.) Dr.-CH	Perry
Exp. Egg.—407	Aft. (M.T.Th.F.) Lab.	
	V (Th.) B-M.H.	
Heat. and Vent.—409	II (T.Th.) A-M.H.	Nachman
El. Heat. Pwr. Eng.—410	IV (M.) E-CH	Seegrift
	V (Th.) E-CH	Seegrift
El. Heat. Pwr. Eng.—411	IV (M.T.W.F.) B-M.H.	Winston
Eng. Shop (M.E.)—418	Aft. (M.Th.F.) Shop	Winston
	IV (F.) E.L.R.	Pearl
Eng. Shop (E.E.)—418	Aft. (M.W.F.) Shop	Pearl
	I-III (S.) Shop	Pearl
	V (T.) A-M.H.	Pearl

CHEMICAL ENGINEERING

Gen. Chem. Lect.—101	(a) III (M.W.Th.) Sc.H.	Tibbals
	(b) V (M.W.F.) Sc.H.	Tibbals
Gen. Chem. Rec.—101	(a) IV (T.Th.) A	Tibbals
	(b) IV (T.Th.) C	Van Atta
	(c) IV (T.Th.) H-CH	Carpenter
	(d) V (T.Th.) A	Tibbals
	(e) V (T.Th.) P.L.R.	Van Atta
	(f) V (T.Th.) H-CH	Carpenter
	(g) VI (M.W.) A	Tibbals
	(h) VI (W.F.) B	Van Atta
Gen. Chem. Lab.—102	(a) Aft. (M.) Lab.	Van Atta
	(b) Aft. (T.) Lab.	Carpenter
	(c) Aft. (W.) Lab.	Carpenter & Van Atta
	(d) Aft. (Th.) Lab.	Tibbals
	(e) Aft. (F.) Lab.	Van Atta
	(f) I, II, III (T.) Lab.	Van Atta
Org. Chem. (Ch.E.)—204	IV (M.W.F.) P.L.R.	Freud
Org. Chem. (Ch.E.)—206	(a) Aft. (M.T.) Lab.	Freud & Van Atta
	(b) Aft. (W.Th.) Lab.	Freud & Van Atta
Org. Chem. (F.P.E.)—210	I, II, III (S.) Lab.	Van Atta
Chem. Eng.—301	IV (M.W.F.) A	McCormack
	IV (M.W.F.) C	Barr
Chem. Eng.—303	Aft. (M.T.W.) Lab.	McCormack & Barr
Adv. Org. Chem.—305	III (M.W.) P.L.R.	Freud
Phys. Chem.—308	II (M.W.F.) P.L.R.	Freud
Phys. Chem.—310	Aft. (Th.F.) Lab.	Freud
Ind. Chem.—312	IV (T.W.Th.) B	Schommer
Ind. Chem.—313	Aft. (T.Th.) Lab.	Schommer
Chem. Eng.—401	III (M.T.W.) A	McCormack
	C-M.H.	Barr
Chem. Eng.—403	All Day (Th.) Lab.	McCormack & Barr
	V-VIII (F.) Lab.	McCormack & Barr
Gen. Met.—405	II (M.W.F.) E.L.R.	Carpenter
Gen. Met.—407	V-VIII (M.) Lab.	Carpenter
Chem. Hazards—410	III (T.) P.L.R.	Tibbals
	IV (F.) B	Tibbals

CIVIL ENGINEING

Eng. Draw.—201	Aft. (F.) DR.-Ms.	Stevens
Elem. Surv.—202	(a) IV (M.Th.F.) F-CH	Penn
	(b) V (M.Th.F.) F-CH	Penn
	(a & b) Aft. (M.) DR.-Ms.	Penn
Ry. & Hy. Cons.—302	(a) IV (M.T.W.Th.) C-M.H.	Stevens
	(b) V (T.W.Th.F.) C-M.H.	Stevens
	(a & b) Aft. (W.) Dr.-Ms.	Stevens
Stresses—303	(a) I (Daily) G-M.H.	Penn
	(b) II (Daily) F-CH	Wells
Graph. Probs.—305	Aft. (Th.) Dr.-Ms.	Wells
Bldg. Const.—311	III (T.Th.) F-CH	Ensz
	Aft. (T.) Dr.-Ms.	Ensz
Graphics—314	I (T.Th.) A-Ms.	Spears
Astronomy—401	III (M.T.Th.) J-CH	Penn
Higher Struct.—404	I (T.Th.) A-Ms.	Stevens
	Aft. (M.) Dr.-Ms.	Stevens
Water Supply Eng.—405	I (M.W.F.) G-CH	Vagtborg
Bridge Design—408	Aft. (W.Th.F.) Dr.-Ms.	Ensz
Aerodynamics—410	IV (Th.) A-CH	Wells
	V (M.T.W.F.) J-CH	Wells
Steel Const.—413	II, III (T.) Dr.-Ms.	Spears
	II (F.) A-CH	Spears
	I, II, III (S.) Dr.-Ms.	Spears
Surveying—417	I, II, III (S.) B-Ms.	Vagtborg

ELECTRICAL ENGINEERING

Elem. of E.E.—201	(a) IV (M.W.F.) G-CH	Richardson
	(b) V (M.W.F.) P.L.R.	Richardson
Elec. Lab.—203	Aft. (M.T.W.F.) Lab.	Richardson
D.C. Mach.—301	V (M.T.W.Th.) E.L.R.	Moreton
D.C. Lab.—302	I, II, III (T.Th.) Lab.	Moreton
	Aft. (M.) Lab.	Moreton
A.C. Mach.—401	I (M.Th.F.) E.L.R.	Freeman
	IV (W.) E.L.R.	Freeman
A.C. Cct.—403	I (T.) E.L.R.	Richardson
	II (M.F.) B-Ms.	Richardson
A.C. Lab.—404	II, III, IV (T.Th.) Lab.	Snow
	Aft. (M.) Lab.	Snow
Oper. & Test.—404	VII (Th.) E.L.R.	Snow
Elect. Pwr. Plts.—406	III (M.) E.L.R.	Snow
	VI (T.Th.) E.L.R.	Snow
A.C. Problems—401	I, II, III (T.) Dr.-CH	Freeman & Moreton
Electricity (M.E.)—414	III (T.Th.) E.L.R.	Nash
Electricity (M.E.)—414	Aft. (M.) Lab.	Nash
Electricity (C.E.)—414	II (T.Th.) E.L.R.	Nash
Electricity (C.E.)—414	I, II, III (S.) Lab.	Nash
	Aft. (T.) Lab.	Nash
Electricity (Ch.E.)—415	IV (M.W.) Sc.H.	Moreton
Electricity (Ch.E.)—415	Aft. (T.W.) Lab.	Freeman
Electricity (F.P.E.)—415	IV (T.Th.) P.L.R.	Freeman
Electricity (F.P.E.)—415	Aft. (Th.F.) Lab.	Freeman
Radio—418	V (Th.) Sc.H.	Scar
	VII (T.) E.L.R.	Scar
Radio—418	II, III, IV (T.Th.) Lab.	Scar

FIRE PROTECTION ENGINEERING

Fire Ins. Sched.—201	II (T.Th.) B-CH	Finnegan
Fire Prot. Eng.—201	I (T.Th.) B-CH	Finnegan
Fire Prot. Eng.—303	V-VIII (M.) U.L.	Robinson
Fire Ins. Pract.—305	I (M.W.F.) B-CH	Finnegan
Fire Prot. Eng.—403	V-VIII (T.) U.L.	Robinson
Und. Standards—405	III (T.Th.) B-CH	Finnegan
Spec. Hazards—407	II (M.W.F.) B-CH	Finnegan
Sched. Rating—408	IV (M.) E.L.R.	Snediker
	AFT (M.) E.L.R.	Snediker

ARCHITECTURE

Desc. Geom.—101	V (M.W.F.) A.I.	Suter
Desc. Geom.—101	I, II, III (S.) A.I.	Tibbals
Free Hand Draw.—105	VII, VIII (M.F.) A.I.	Krehbiel
Arch. Des.—107	V-VIII (T.Th.) A.I.	Suter
	Aft. (W.) A.I.	Suter
Arch. Const.—201	VIII (M.F.) A.I.	Morrill
Hist. of Arch.—203	VIII (T.Th.) A.I.	Bentley
Free Hand Draw.—205	III, IV (M.) A.I.	Krehbiel
	V, VI (F.) A.I.	Krehbiel
Arch. Des.—207	V, VI, VII (M.) A.I.	Bentley
	III-VIII (T.Th.) A.I.	Bentley
	III-VIII (W.) A.I.	Bentley
	I, II, III, IV (S.) A.I.	Bentley
Arch. Modeling—301	II, VIII (M.) A.I.	Hofmeester
Free Hand Draw.—305	V-VIII (W.) A.I.	Krehbiel
Arch. Des.—307	III-VIII (T.Th.) A.I.	Bentley
	V-VIII (F.) A.I.	Bentley
	I-IV (S.) A.I.	Bentley
Water Color—309	II, III, IV (F.) A.I.	Krehbiel
Arch. Prac.—401	VIII (T.Th.) A.I.	Morrill
Arch. Des.—407	II-VIII (M.W.) A.I.	Boersman
	IV-VIII (T.) A.I.	Boersman
	I-VIII (Th.) A.I.	Boersman
	IV-VIII (F.) A.I.	Boersman

SOCIAL SCIENCE

Bus. & Eng. Prob.—101	(a) II (M.W.F.) D-Ms.	Gootz
	(b) II (M.W.F.) B-M.H.	Hansen
	(c) III (M.T.W.) B-M.H.	Hansen
	(d) I (M.W.F.) B-M.H.	Gatz
	(e) IV (M.W.F.) Assem.	Dutton
	(f) IV (M.W.F.) B-M.H.	Gootz
Eng. Prob.—101	(a) V (M.) P.L.R.	Hansen
	(b) IV (W.) F-CH	Hansen
	(c) VI (F.) P.L.R.	Dutton
Bus. Policy—401	(a) I (M.W.F.) D-Ms.	Hansen
	(b) II (M.W.F.) Assem.	Dutton
	(c) V (M.W.F.) Assem.	Gootz
Pub. Policy—402	(a) I (M.T.W.F.) P.L.R.	Dutton
Elem. Fr.—103	(a) I (M.W.F.) F-Ms.	Olson
Elem. German—301	(a) II (T.Th.) F-Ms.	Sager
	(b) III (T.Th.) F-Ms.	Sager

MECHANICS

Eng. Mech.—201	(a) II (M.W.F.) E-CH	Harris
	(b) II (T.Th.F.) D-CH	Mangold
	(c) III (M.W.Th.) E-CH	Harris
	(d) IV (T.W.Th.) E-CH	Harris
	(e) V (M.W.F.) D-CH	Mangold
	III (T.W.Th.) D-CH	Mangold
Eng. Mech.—202	I (T.W.Th.) D-CH	Mangold
App. Mech.—203	I (M.T.Th.) E-CH	Harris
App. Mech.—204	(b) V (M.W.F.) E-CH	Harris
Mech. of Mat.—301	(a) I (Daily) J-CH	Paul
	(b) II (Daily) J-CH	Paul
	(c) IV (Daily) J-CH	Paul
	(d) IV (Daily) D-CH	Mangold
	(e) IV (Daily) B-CH	Spears
	(f) III (M.), V (T.W.Th.F.) B-CH	Spears
Flow of Fluids—303	I (M.F.) D-CH	Mangold

MATHEMATICS

Coll. Alg. & Trig.—101	(a) I (Daily) C-Ms.	Potter
	(b) I (Daily) C	Davis
	(c) I (Daily) B-Ms.	Krathwohl
	(d) II (Daily) C-Ms.	Potter
	(e) V (Daily) C	Oldenburger
	(f) V (Daily) C-Ms.	Spencer
Rev. Alg.—10	(a) I (Daily) A-CH	Oldenburger
Anal. Geom.—102	(a) II (Daily) C	Davis
	(b) IV (Daily) C-Ms.	Spencer
Math. for Archs.—103	(a) III (M.W.Th.) A-Ms.	Spencer
Calculus I—201	(a) I (M.T.W.Th.) A	Bibb
	(b) II (M.T.W.Th.) A-CH	Oldenburger
	(c) III (M.T.W.Th.) C	Davis
	(d) III (M.T.W.Th.) B-Ms.	Krathwohl
	(e) III (M.T.W.Th.) B	Potter
	(f) V (M.T.W.Th.) B	Bibb
Calculus II—202	(a) II (M.T.W.Th.) A	Bibb
Diff. Eq'n's.—302	(a) IV (M.T.W.) A-CH	Bibb
	(b) VI (T.Th.F.) A	Krathwohl

PHYSICS

Phys. Rec.—201	(a) I (M.T.W.Th.) B-M.H.	Sprague
	(b) I (M.T.W.Th.) C-M.H.	Thompson
	(c) II (M.T.W.Th.) B-M.H.	Sprague
	(d) II (M.T.W.Th.) C-M.H.	Thompson
	(e) IV (M.T.W.Th.) A-Ms.	Colvert
	(f) V (M.T.W.Th.) A-Ms.	Colvert
Phys. Lect.—201	(a) I (F.) Sc.H.	Thompson
	(b) II (F.) Sc.H.	Thompson
Phys. Rec.—202	II (F.) A	Colvert
	III (M.W.Th.) C-Ms.	Colvert
Phys. Lect.—202	III (T.) Sc.H.	Colvert
Phys. Rec.—203	II (W.F.) B-M.H.	Sear
Phys. Lab.—206 & 206	Aft. (Daily) Lab.	Lab Inst.
	I, II, III (S.) Lab.	Lab Inst.
Phys.—301	I, II, III, IV (S.) Lab.	Thompson

ENGLISH

Lit. & Comp.—101	(a) I (M.W.) G-CH	Fulghum
	(b) I (T.Th.) B-M.H.	Olson
	(c) II (T.Th.) B-M.H.	Olson
	(d) II (T.Th.) G-CH	Fulghum
	(e) IV (T.Th.) B-M.H.	Hendricks
	(f) III (T.Th.) G-CH	Fulghum
	(g) IV (T.Th.) C-CH	Fulghum
	(h) V (M.W.) G-CH	Hendricks
English for Architects—10 A	(a) II (M.W.) Sc.H.	Hendricks
Exposition—201	(a) II (M.W.) F-Ms.	Fulghum
	(b) III (M.W.) F-Ms.	Fulghum
	(c) III (T.Th.) A-Ms.	Olson
	(d) IV (M.W.) F-Ms.	Fulghum
	(e) V (T.Th.) G-CH	Hendricks
English for Architects—201A	(a) II (T.Th.) E-CH	Hendricks

Library to Have Many New Books

Miss Wirick, genial assistant librarian, has left Armour to take the post of librarian at the Southwestern College in Winfield, Kansas. Her work will be replaced by that of Miss Virginia Neal on October 1. Miss Neal studied at Carnegie Institute and has been working with the International Filter Company.

Following is a partial list of some new books the library has acquired:

- Boylis, J. R.—Elimination of Taste and Odor in Water
- Briscoe, H. T.—Structure and Properties of Matter
- Campbell, H. L.—Working, Heat Treating and Welding of Steel
- Chase, H.—Die Castings
- Chase, Stuart—Economy of Abundance
- Dennison, H. S.—Organization Engineering
- Dwight, H. B.—Tables of Integrals and Mathematical Data
- Eastman Kodak Co.—How to Make Good Pictures
- Eastman Kodak Co.—Photomicrography
- Harding, T. S.—Popular Practice of Fraud
- Hobart, A. T.—Oil for the Lamps of China
- Lange, N. A.—Handbook of Chemistry
- Ludwig, E.—Hindenburg.
- Mangold, J. F.—Practical Mechanics of Motion
- Matthews, J. H. and Sonson, P. E.—Analysis of Framed Structures
- Rickard, T. A.—Man and Metals, 2 vol
- Riesbeck, E. W.—Air Conditioning
- Sheperd, H. F.—Diesel Engine Design
- Shoop, C. F. and Tuve, G. L.—Mechanical Engineering Practice
- Slichter, S. H.—Towards Stability
- Tead, O.—Art of Leadership
- Wagner, A. F.—Experimental Optics
- Wells, H. G.—Experiment in Autobiography
- White, H. E.—Introduction to Atomic Spectra
- Woldman, N.—Physical Metallurgy.
- Wright, M.—Getting Along With People

American Association for Advancement of Science—Comm. on Patents—Protection by Patents of Scientific Discoveries

These twenty-seven books form only a small part of the list which Miss Steele will soon post on the library's bulletin board. Professor J. F. Mangold's new book is included in the above list.

Miss Steele, who vacationed a month at her home in Lake Forest by swimming and horseback riding, will soon prepare a list of reference libraries of interest and use to the Armour students. This list will be posted on the library bulletin board soon and will also be printed in the News. Miss Verwey was on sick leave this summer from July 1 to the last week in August.

NEW PROFS

(Continued from page 1)

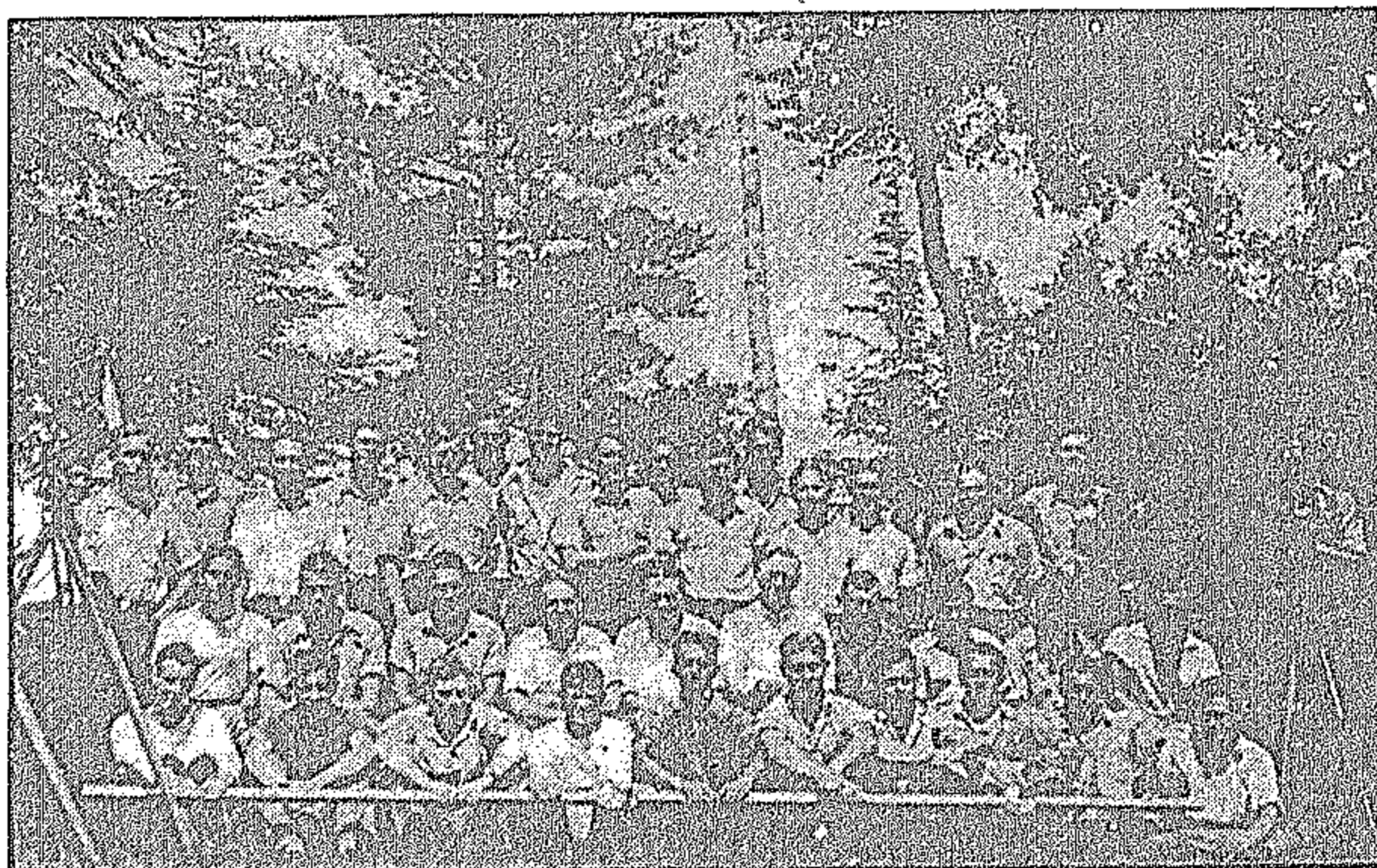
Snediker, replaces Kent Parker as instructor in Fire Protection Engineering. Mr. Snediker has recently been transferred from the Minneapolis Bureau to the Chicago branch of the Western Actuarial Bureau.

Dr. Locking is now teaching at the University of Illinois. His place has been taken by Mr. Wm. Goetz, a graduate of the University of Chicago. Mr. Goetz has taken engineering courses at Cornell and graduate work at Chicago "U." He has taught at the Universities of Buffalo and of Chicago, besides doing commercial work for the James O. McKinsey Co.

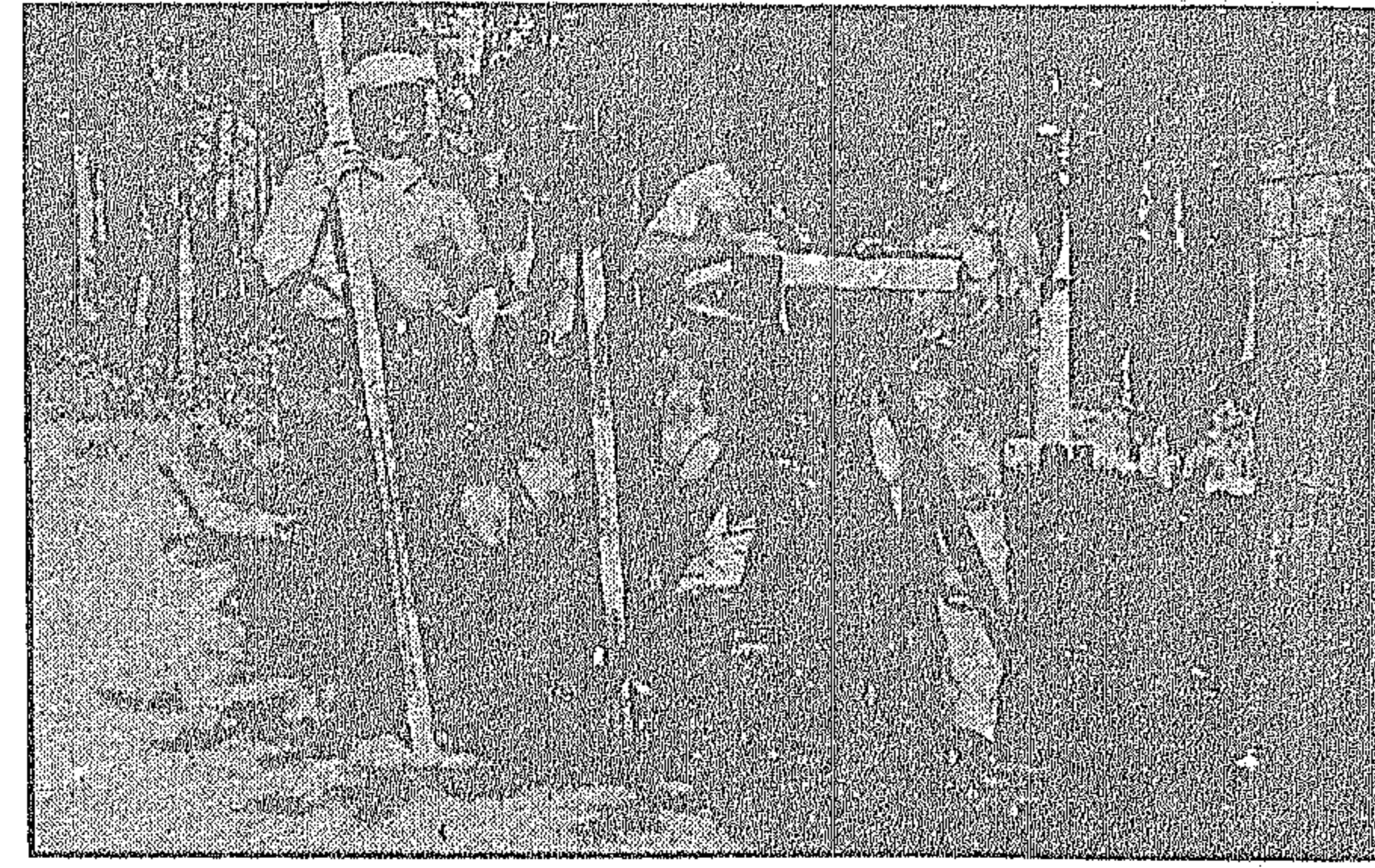
Frank Oster Is New Cloak Room Guardian

A familiar face around Armour for the last forty years or so will greet Armour students in a new capacity today. Tall, mustached Frank Oster, who has grayed in the service of the Institute, will now take charge of the cloak room. His job is the exchanging of hats and coats for metal checks and vice versa.

William L. Kane, whom the seniors will remember as tool room boy in the machine shop and who in recent years served in the capacity of janitor, assumes the duties of custodian in charge of the buildings.



● Left—the civils pose for their picture at summer camp. Right — Richards, Duerstein, Moore and Johnson looking serious over a plane table. ● Below—Larson finds a visitor in his garage.



SCIENCE NOTES

By Norton Gerber

After four years of constant work, Prof. J. A. Reyniers claims he has succeeded in obtaining absolutely germ-free guinea pigs. If such is the case, such important germs as those which cause colds, influenza, and infantile paralysis may soon be isolated.

Sixty per cent of our transport flying in the United States is done at night.

The Ford Motor Company has perfected a new method for rustproofing. Zinc is deposited by alternating current. As a result of the use of alternating current, hydrogen is not formed at the cathode, thus permitting the deposition of a zinc coating that is neither fragile nor crystalline.

Aztec Indians of Mexico, long before modern psychiatry, considered fear and fatigue as diseases calling for medical treatment.

When carbon black was introduced in concrete to reduce glare from the road, it was found to have a strengthening effect on the concrete.

Chemists may now have invisible gloves—they come in a can and look like cream. On rubbing this cream into his hands, it disappears, forming a protective film which keeps dirt, grease, paint, and so on from entering the pores. This cream is then removed by rinsing in water. It is known as "Pro-Tek" and is finding wide use among doctors and mechanics.

By a unanimous vote of the American Chemical Society's committee, the first Eli Lilly and Company award in Bio-Chemistry has been made to Willard Myron Allen of the School of Medicine and Dentistry of the University of Rochester, Rochester, New York. The basis for the award is the outstanding work done by Dr. Allen in developing a sharply defined biological test for the action of corpus luteum, the use of this test to isolate in crude form a potent extract, and then the complete purification of the hormone now called "progestin."

The U. S. Coast and Geodetic Survey will soon have a chance to see if the earth's crust, from 17 to 75 miles thick, will bend under the enormous load at Boulder Dam—41,500,000,000 tons. Engineers expect an area of twelve square miles to sink six-tenths of a foot. This will be the greatest load man has ever put on a single place of the earth's surface.

The vitamin necessary to produce fertility in female animals is vitamin E. Evidence leads to the belief that this vitamin is a high alcohol, containing 29 atoms of carbon, 50 atoms of hydrogen, and two atoms of oxygen.

The Iron Horse does not seem to be dying quite as fast as many would have us believe. The Baltimore and Ohio R. R. streamlined passenger train, recently completed, is almost as revolutionary in design and construction as the much heralded Diesel operated trains. While the Diesel between the cars is closed, as in the Diesels, the new train has an advantage in that its trucks are not articulated. This allows cars to be "cut out" to meet lesser traffic requirements. Its speed will approach that of its rivals on the rails. Railway Age of May 4 gives an exhaustive description of the train and its locomotives.



Mechanical Alumnus Wins Singing Honors

Alexander Kulpak, graduate of the department of mechanical engineering last June, a former track man, first violinist for the Armour Orchestra, and a soloist in the glee club presented a vocal concert this summer at the Blue Island, Illinois first centennial.

Kulpak's engagement at Blue Island came as a result of his victory in the bass section of the Tribune Music Festival contest for the west side at the Midwest Athletic Club.

Kulpak sang several numbers recently over radio station WLS, where he has been invited to sing again.

Prof. G. Wilcox Doing Radio Research Work

Extensive tests on insulating materials for radio frequency were among the research activities carried on at the Institute during the past summer. Conducted by Prof. Guy M. Wilcox, professor emeritus of physics, for the Di-Electric Radio Corporation of Jersey City, the tests were part of a series extending over several years.

Bakelite and other common insulators being unsuited for radio-frequency circuits, the Di-Electric Corporation is engaged in finding more efficient substance. A great many such materials as varnishes, lacquers, and ceramics have been tested.

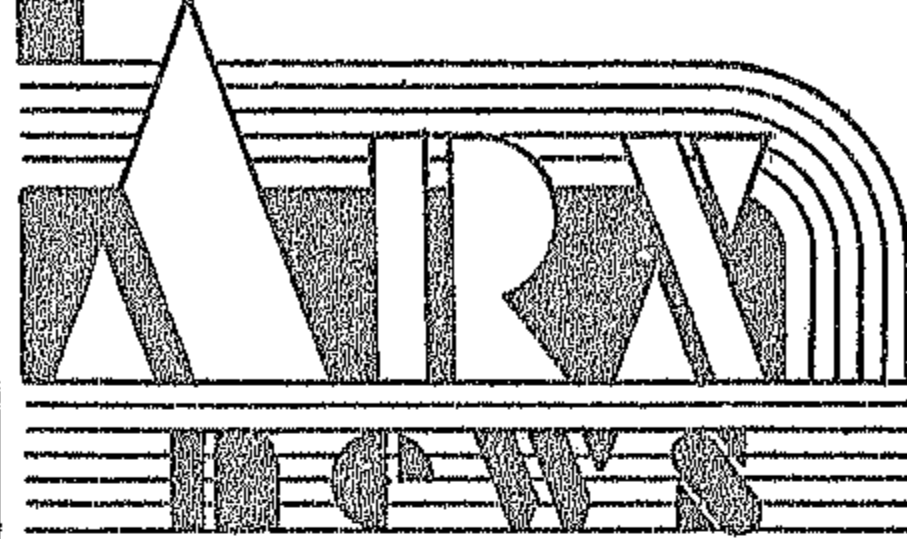
Office of President Moved and Improved

Although it long has been felt advisable to have an office to suit the dignity of the Dean's position, it was not until this year that occupancy was made. Dean Heald now occupies the office south of the main entrance, formerly used by the President. The office of Dr. Hotchkiss was moved to the second floor, just north of the elevator. Certain changes have been made in the business offices of Armour that made it advisable to have all these offices together.

The president's new office is, constructed of wall board donated by the Celotex Company, regular Celotex being used for the walls and acousti Celotex for the ceiling. This gift of wall board was obtained through Professors Peebles and Moreton and T. B. Munroe, vice-president of the Celotex Company. Professor Moreton also had charge of the construction and design of the offices.

Dust-free air is provided by a filter. The appearance of the new offices is modern and lends distinction to the second floor.

More than 3,000,000 spot welds and 1,500,000 inches of seam welding—without a single reject because of faulty welds—have been accomplished in the manufacture of evaporator units for G-E refrigerators. The spot welding is at the rate of 150 per minute, and the seam welding at the rate of 72 inches per minute on the stainless steel unit.



ARCHITECTS, NEW AND OLD . . . ATTENTION!!

This editor welcomes you to Armour and back to school. This editor wants you to know that this is your column, that he attempts to make a news item of your activities, scholastically, socially and morally, and those of your classmates and professors as well. This is a column of, for, and by architects, with the rare exception that an engineer in a moment of weakness will cast aside his pride to give this column and the ARX a break.

We are happy to print that many of the ARX of the class of 1935 have been placed in jobs, that are in or directly connected with architecture. This is a good barometer to confirm the general opinion of the field that things are actually "picking-up." So go to it, you '39'ers.

A few of the boys who will return to school as seniors this year were employed during the summer by Prof. William F. McCaughey in his Park Ridge architectural office.

As he has done in the past few years, Prof. Earl H. Reed Jr., director of the department of architecture, spent several weeks in Estes Park. No doubt, he has returned as usual with many fine water color sketches.

Ran into Prof. Albert Krehbiel the other day in the Art Institute. He had just returned from his summer class of forty-two art students at Saugatuck, Michigan. Boys, he never looked better in our recollection, and he tips the pointer at 190 pounds. "Kreh" has long been a first-

MOTOR CLUB INN
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"We Cater to Students"
Moderate Prices—Big Variety
33rd and Michigan

Program Committee of A. I. Ch. E. Meets

In order to determine the course of procedure of future A.I.Ch.E. programs, the program committee met last Friday morning in Professor H. McCormack's office. The committee consisting of H. P. Milleville, R. Paulsen, J. F. Kahles, and O. Zmeskay, has for its objective, to clarify for its members the nature of the chemical engineering profession and of the various duties of the chemical engineer by its investigation in the field of chemical engineering. Professor McCormack has shown interest in the procedure and promises to have available a statistical survey of the alumni of the chemical engineering department, especially of the more successful graduates.

In addition, each member of the program committee investigated this summer, several subjects of interest to the chemical engineering students.

rate-one-of-the-best charcoal welders. This year he's going to be more potent than ever, and everyone in the department will be benefited.

After about two years of real pleasure in conducting ARX NEWS, yours truly is going to divulge the deep secret of his identity (which everybody knows anyway). Because with this issue EAGLE EYE again becomes an ordinary citizen and discards his "incognito." We could mention the name of the next ARX NEWS, but we're inclined to believe that he would like to fool the public just as EAGLE EYE has done (Now isn't that a laugh?)

Good-bye and good luck to all my readers and may your name appear in this space frequently. Pray that it will not be connected with scandalous or malicious notoriety, but rather with noteworthy achievements and praiseworthy laudations!

ALFRED J. ROSEN
alias
EAGLE EYE.

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EASY WAY TO MAKE A TOUCH ..AND AN EASY WAY TO ENJOY A PIPE

STUDENT ARRIVES IN ROOM. TURNS BROOM IN MOVIE MACHINE (A) AND SEES FAN DANCER. X-RAY MACHINE (B) INSPECTS STUDENT'S POCKET AND DISCOVERS 25¢. STARTS PHONOGRAPH (C) WHICH PLAYS SOFT SAD MUSIC MAKING WEEPING WOOFUS (D) SHED BITTER TEARS FILLING SPONGE WHICH CAUSES ARROW (E) TO PUNCTURE BALLOON THUS RELEASING TOUCHMAKER (F). STUDENT'S HEART HAS BEEN SOFTENED BY SAD MUSIC WEEPING WOOFUS AND FAN DANCER AND HE WILL FORK OVER 25¢ AND TAKE IOU IN RETURN

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GOVERNMENT WILL ASSIST STUDENTS THROUGH N. Y. A.

Post Graduate Students Also to Benefit by Government Aid

MAXIMUM WAGE IS \$15

Under the provisions of the National Youth Administration for Federal College Student Aid, which replaces the former F. E. R. A., many students at Armour Institute of Technology will be enabled to work during the coming scholastic year on projects that are socially desirable. Those students desiring such work may obtain applications in the Registrar's Office.

The selection of students for this work is to be based on four conditions prescribed by the N. Y. A. These conditions are: 1. Need of such aid; 2. Character and ability to do college work; 3. Status of attendance; 4. Age of students to be between 16 and 25 years.

According to the N. Y. A. students may work a maximum of 30 hours in a given week—8 hours in a given day and shall be paid on an hourly basis at the hourly-rate commonly paid by the institution—forty cents at Armour. The N. Y. A. also stipulates that "an individual student during a calendar month may earn not more than \$20."

However, since there are so many applicants for this work at Armour, the pay of \$15 per month will be the maximum allowed. In order to be within the \$15 per month limit the student must not work more than thirty-seven and one half hours per month. The prescribed limit of 30 hours per week or 8 hours per day, is to guard against the student neglecting his studies by working too long in a given week.

A special feature of this year's Federal aid over that of the past, is that additional funds will be made available for part-time employment of graduate students and Negro students. Thus, a student in the first year of graduate study may receive a maximum of \$20 per month, (\$15 per month at Armour) and also supplementing aid to the extent of \$10 per month, for part-time work.

Students who have already completed one full year of graduate study are eligible for an average pay of \$30 a month—a maximum of \$40 for any given month—as well as the \$20 per month maximum available to college students on the college aid program.

Also, because of the present limited possibilities of graduate work facilities for Negro students in certain areas, the N. Y. A. will reserve a limited fund for the special encouragement of Negroes who have already completed one full year of graduate study.

However, since Armour does not provide any graduate courses more than one year in length, the aid described in the last two paragraphs will not be available for students at Armour.

W.S.E. to Open Meetings in Oct.

Rushing off to a flying start, the Junior Engineers of the Western Society of Engineers will hold their first society meeting of the year in room 1200 in the Engineering Building, 205 W. Wacker Drive at 7:00 p. m. Thursday evening, October 3. The meeting will be addressed by the president of the senior Western Society of Engineers, Mr. Frank Fowle.

Edgar S. Nethercut, honorary member of the Armour chapter of Chi Epsilon, secretary and director for the Western Society of Engineers for the last 18 years, was elected Secretary Emeritus by the Board of Directors, as of September 1. Mr. Nethercut retired so that he could devote his time to travel and historical research in the field of engineering.

Several Armour men now hold executive positions in the Junior Engineer branch. They are: R. P. Petersen, '27, chairman of the executive committee; H. Davidson, '34, chairman of the publicity committee; and B. M. Kostenko, '34, chairman of the inspection committee.

Faculty Attends S. P. E. E. Meeting

At the convention of the Society for the Promotion of Engineering Education held in Atlanta last summer, Armour was represented by Dr. Hotchkiss, Dean Heald, and Professors Finnegan and McCormack. Both Dr. Hotchkiss and Professor McCormack delivered addresses, the former on social science in engineering schools, and the latter on equipment for the college chemical engineering laboratory and on the desirability of laboratory text books in chemical engineering.

In his address, Dr. Hotchkiss pointed out the close connection between engineering and social and economic considerations, to illustrate the need for social science courses in engineering curricula. His paper developed six requirements for social science material to be used in engineering schools. They are, first, that it be relevant to an engineering education, second, that it be capable of stimulating intellectual curiosity, third, that it give opportunity for discipline in accurate reasoning, fourth, that it include subject matter concerning which definite action is contemplated as a result of study and analysis, fifth, that it challenge the instinct of workmanship, and sixth, that it be sufficiently flexible to give scope to varying capacities and interests of individual students.

Professor McCormack, illustrating his talk on laboratory equipment with examples from Armour's lab, gave an outline of the requirements to be met and the methods of designing equipment to meet them.

Armour Frosh Is Eliminated from Competition by New A. T. A. A. Ruling

There was once a day when athletics were taken not so seriously at Armour Tech and in that day the teams produced were very consistent with the sports attitude. And, what's more, a school with dignity surrendered its front to compete with the Techmen. Or maybe it used our forbears as schedule "meat," y'know—filler.

Now in that day, Armour teams could be made up of men from all four college years. Without any fuss a few professors could enter the lists. Even Stan Livingstone, and some of the "Student Union" waitresses might have taken up the fight for Tech.

Ah yes. But that was long ago. Long, long ago in fact! For as time went, the day of athletically minded engineers came. And of course with the attitude, came the talent, and Armour would win games now and then. For instance, in basketball, Tech has humbled Maroon quintets for three years. A year ago Tech came out even in home and home games on the diamond with Northwestern and Chicago. With schools more in its class Armour has easily held its own. Well, the profs and such were frowned out soon, we suppose, and now they cast off some more. A freshman ruling, or play in your own yard! Which is no fun, so—

For the first time, Tech freshmen are not eligible to make a varsity team. Going to sound silly branding squads "frosh" or "varsity." However Armour teams will receive no

new strength this season—that's bad, especially after graduation has thinned the sports ranks so impressively.

In looking the situation over, basketball, first and foremost in the winter lists, did not do too badly. Three "major" men have gone, ne'er to return, but four regulars are back. Co-captains Dollenmaier and Warner, and Heike and Merz are the lettermen. The fifth man will be selected from the host of basket stars among the upperclassmen who forgot to make the team last season! (?)

The wrestlers are still sitting pretty and captain Herm Sumner should lead the team in a big year. Swimming, however needs help. Four lettermen gone and a weak team is practically wobbly. It is reported that many men took advantage of summer tuition at the U. of C. pool. Here's hopin'.

Then again, the whole tennis squad graduated, golf fared fifty-fifty. Track just lost a couple of men, but wotta loss! George Nelson and John Roberts were a real track team. Not such a nice year to welcome a new coach.

As yet, the A. T. A. A. has not definitely announced a program for the barred frosh, but it is likely that freshmen teams—at least in major sports—will see some activity with other schools. Some talk of a freshmen basket ball coach has been nosed around and the outstanding possibility is Ray Pflum, star guard of two years ago.

Professor Dies After Accident

Walter John Bentley, an alumnus and assistant professor at Armour, died July 11, 1935 at the John B. Murphy hospital after a year's illness resulting from an accident in which he fractured his kneecap in the spring of 1934.

Professor Bentley was born in Chicago on April 28, 1897. After graduating from Loyola Academy he entered Notre Dame University, where he studied one year. In 1917 he entered Armour and completed the course in chemical engineering to graduate with the class of 1920. He submitted a senior thesis on the alloys of nickel and nickel oxide.

Was Instructor After Graduation

After his graduation Professor Bentley remained at Armour as instructor in general chemistry. He received the degree of chemical engineer in 1925 when he submitted a thesis entitled "The Formal Use of Inspection Trips in the Teaching of Chemical Engineering." In the same year he was appointed assistant professor of chemical engineering, taking charge of courses in electrochemistry and in organic chemistry for the students of fire protection engineering. He retained this posi-

Letter Box

September 19, 1935.

Editor, Armour Tech News

A traveling microscope has disappeared from the machine shop at the Institute. This instrument has little realizable value but is exceedingly useful in the Physics laboratory.

If the individual who borrowed this will return it immediately, it will enable the Physics Department to carry on its work satisfactorily—no questions will be asked.

Wallace M. Flower.

tion until the college year 1933-1934 when he left because of illness.

At Armour he had been a member of Beta Psi (now Pi Kappa Phi) and the honorary chemical fraternity, Phi Lambda Upsilon. As a member of the faculty he was instrumental in the reorganization of the chemical club, Flask and Beaker, as a chapter of the professional chemists' fraternity, Alpha Chi Sigma, becoming one of the charter members.

Professor Bentley also belonged to the American Chemical Society, of which he was treasurer of the Chicago section. He was a participating member of the Society for the Promotion of Engineering Education and the American Institute of Chemical Engineers.

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LOU GENRIG says of Camels: "I like their mildness. They never interfere with my wind or my 'fighting trim.' When I feel tired after a game, I get a 'lift' with a Camel."

JOSEPHINE McKIM, Olympic champion swimmer. "One of my hard and fast rules in connection with smoking," she says, "is that I always choose a Camel. Camels are such a mild cigarette. I can smoke them steadily, and they don't interfere with my physical condition. They never bother my wind. 'I'd walk a mile for a Camel!'"

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A. T. A. A. PLANS AN EARLY REVISION OF ITS CONSTITUTION

Annual Publication to Be Provided for in New Form LIST AWARD RULES

A revised constitution for the Armour Tech Athletic Association, containing specific provisions for its annual publication and several other new articles, will soon be presented to the Board of Athletic Control and to the student body by Don J. Neal, president of the association.

Besides providing that the constitution be published every year, the revision adds articles outlining the method of making athletic awards and of awarding the honor cycles.

Subject to Student Vote
Before any new constitution can become effective, it will have to be voted on by the students. Previous to this, the changes proposed will be discussed and put into the finished form by the Board of Athletic Control, which is composed of President Hotchkiss, Mr. Allison, Professors Heald, Huntly, and Schommer, Coach Krafft, and the officers of the A. T. A. A.

The new article on athletic awards outlines the awards to be made and gives the coach of each sport power to recommend candidates for awards to the Board of Athletic Control. The Board is given discretionary power in approving or disapproving the coach's recommendations.

Wording Brought Up to Date
Besides adding three new articles and several by-laws, Neal has made frequent changes to modernize the wording of the constitution. References to the Executive Council, formerly the governing body of the school but now no longer existing, have been stricken out. The official name of the organization, given in the constitution as the "Armour Tech Athletic Association and Student Union" has been shortened to the better known form "Armour Tech Athletic Association."

Eliminate Outside Groups
In Article II, which states the object of the association, it is proposed to strike out the rather ambiguous clause giving the association the power to pass acts for the regulation and government of the student body, provided they are approved by the Executive Council. Neal stated "Without this clause, Article II gives us power enough to do anything necessary without recourse to outside bodies. Anyway, most of the important officers of the school are on the Board of Athletic Control, which governs the A. T. A. A."

Changes in the by-laws include the combination of the officers of inter-class and inter-fraternity sports managers into one to be known as intra-mural manager.

To Make Changes in By-Laws
Provisions for a reception committee, a social chairman, and a publicity manager are proposed to be removed from the by-laws, as is a clause giving the Board of Athletic Control permission to consult editors of school publications, and presidents of clubs and fraternities in any action to be taken. This, said Neal, would be done in any case.

It is also proposed to make a by-law of the resolution recently adopted creating a student loan fund from A. T. A. A. funds.

Norman Root to Be Track Coach

To fill the vacancy left by former coach Lonnie Stagg's departure for another coaching position at Susquehanna, Pennsylvania, the Institute has secured the services of Norman Root, an outstanding track man from the University of Chicago. This is Mr. Root's first coaching position and it is to be hoped, not unduly, that his first season will be successful. This is not too much to desire when one considers the returning trackmen: Captain Concolino, Dunbar, Faust, Neal, Neuert, Thornton, Tuma, and many others.



The opening of school brings with it the sports activities that supply the grind with the necessary diversions. Won't be long before you can test your skill in the tennis and golf tournaments.

Then too, the interclass and interfrat basketball scrambles will be here soon. And on their tails comes the varsity competition.

The annual fall tennis tourney (which always almost never finishes!) will possibly be the leading lady.

Speaking of tennis reminds us of the fine record piled up by Bob Esbensen and Lowell Lammers. Bob had twelve wins, no losses, and teamed with Lammers hung up seven out of eight in the doubles.

Some of the Tech netmen entered the National Collegiate Tennis Championship but apparently they didn't get very far.

The fencing team is due to suffer a setback this season as Coach Fischer will not be back at school. No new coach has been picked as yet but the blade flashes hope to secure a sponsor soon.

Contrary to rumor, fencing is not to be a recognized minor sport. Here's a chance for the foilsmen to prove their steel and gain recognition.

From the number of Techawks taking advantage of the summer swimming, it looks like a weak team

is going to be noticeably strengthened. And do we need swimmers!

The A. T. A. A. has not yet completed plans for freshman teams but rumor has it that a frosh squad and coach are in the offing. Ray Pfium, former Tech star, has been inked as a possibility.

Capt. Rog Knauss is in the swim again after his illness of last spring. Those breast stroke swimmers had better watch out. Trying the "butterfly" yet, Rog?

Mickey Lukas, recent alumnus, accompanied a group of Lithuanian athletes to the Lithuanian olympics.

Several other prominent Chicago athletes of Lithuanian descent were in the party. Mickey won letters in basketball, baseball and track while at Armour.

With a little agitation perhaps a football tournament might be organized. How about some action?

The publication of an A. T. A. A. info and rule book for each and every student, all members of the organization, will quell an undercurrent that has cropped out at times when the functionings of the A. T. A. A. appeared dark and mystical.

Schnier Sassiety Holds a Pichnich

Members of Chemalumn, the organization which the senior chemicals have formed in the interests of friendship and social activity, held a party at Howard P. Milleville's home yesterday afternoon. The thirty couples started the afternoon with games, such as archery, horseshoes, and a two hour treasure hunt. This was followed by a volley ball game and then by a picnic and campfire supper. After a twilight hike in the Edgebrook Forests, a dance was held in Milleville's basement.

Bookstore to Accept Films for Developing

Through the efforts of two Armour students, the supply store will accept exposed camera film for developing and printing during the coming year. The two, E. C. Peterson and R. F. Lange, have organized a photo service which not only provides ordinary developing service but maintains a file of photographs on many subjects.

It might be stated that the prices will be cheaper, with a high calibre of work.

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	140		French: Engineering Drawing 5th edition 1935
	160		McCollum: College Omnibus 1935 edition
	40	120	Woolley & Scott: College Handbook of Composition.
		160	Rev. Red.

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