



## Outstanding Men Win Honor Cycles

### Leadership, Activities Basis of Selection

"Honor Cycles" awards were announced last week by the A.T.S.A. to the ten most outstanding men in the senior class. The men to receive the awards are J. F. Bartusek, H. O. Bauermeister, D. N. Brissman, W. A. Chapin, N. Gerber, E. A. Heike, P. M. Martin, R. L. Merz, S. M. Miner, and P. R. Schultz.

Each year the A.T.S.A. in conjunction with the *Cycle* staff presents ten deluxe editions to those men graduating who have been most outstanding in leadership, extra-curricular activities, athletics, and scholarship. The winners are determined by a point system set up by the A.T.S.A. with a certain number of points given for each activity. The "Honor Cycles" will be distributed this week.

#### Activities Are Varied

Joseph F. Bartusek, mechanical, has been captain of the baseball team, a class commissioner, and is a member of Tau Beta Pi, Pi Tau Sigma, and Honor A.; Herman O. Bauermeister, chemical was copy editor of the *Tech News* and belongs to Alpha Chi Sigma, Tau Beta Pi, and Honor A.; and Donald N. Brissman, fire protect, was editor of the *Armour Engineer and Alumnus*, and in Tau Beta Pi, Salamander, Sphinx, and Delta Tau Delta.

William A. Chapin, Jr., electrical, was business manager of the *Cycle*, a class commissioner, and has membership in Tau Beta Pi, Black Knight, Theta Xi, Eta Kappa Nu, Sphinx, and Pi Nu Epsilon; Eugene A. Heike, chemical, was captain of the basketball team, president of A.T.S.A., and in Tau Beta Pi, Phi Lambda Upsilon, Honor A., and Phi Phi; and Paul M. Martin, electrical, was senior class president, junior marshal, editor-in-chief of the *Cycle*, and a member of Tau Beta Pi, Black Knight, Eta Kappa Nu, Pi Nu Epsilon, and Sphinx.

#### Several Are Athletes

Robert L. Merz, fire protect, was a basketball star, and in Honor A and Phi Phi; Sydney M. Miner, mechanical, was president of the *Armour Players*, president of A.S.M.E., an honor marshal, and a member of Tau Beta Pi, Pi Tau Sigma, Black Knight, and Rho Delta Rho; and Paul R. Schultz, Jr., chemical, was a junior and honor marshal, and in Tau Beta Pi, Phi Nu Epsilon, Phi Lambda Upsilon, Alpha Chi Sigma.



By AL. N. SCHRIEBER

### Engineers' License

Within the last few years engineers have begun to take active strides in elevating the status of engineering. Of the three great fields of endeavor: law, medicine, and engineering, only the latter lacks complete professional status. Such position can only come about when professional engineers have legal recognition.

Over eighty years ago laws were adopted restricting the medical profession to those who were properly trained and qualified by requiring registration with a state board. Fifty years ago this was also done in the law profession. Now the engineering profession is to receive its just recognition. At present thirty-five states have engineering registration laws; some of which are all inclusive such as in New York, others of which are incomplete such as in Illinois. It is only a matter of time before all states will have complete engineering registration laws restricting those who claim to be professional engineers to men actually trained and with the ability for such work.

The student engineer, although not eligible to be registered as a professional engineer until several years have elapsed after his graduation, should give careful consideration to this matter while yet an undergraduate. Too many students graduate

(Continued on page four)

## Chemical Society Pledges Five Juniors, Seven Sophs

In ceremonies held recently twelve men were pledged to Alpha Chi Sigma, national professional chemical fraternity. The seven men chosen from the sophomore class were: R. B. Boertitz, T. B. Calhoun, H. R. Coyle, W. E. Kruse, B. K. Lyckberg, W. A. Ryan, and E. F. Wagner. From the junior class the following were pledged: E. L. Koehler, J. Kubik, W. D. MacDonald, W. E. Velvel, and F. M. Widdell.

On Saturday, June 5, initiation will be held in the Alpha Chi Sigma rooms and will be followed by a dinner theater party in the evening. The conclave of the northern district will be held at Turkey Run, Indiana, in June.

## Research Foundation Announces Fellowship

An announcement has been made by the Armour Research Foundation of the Eli Wishnick Fellowship, which has been established by Robert I. Wishnick, Ch.E., '14, in honor of his father for the promotion of fundamental research in the field of extremely high pressure. The appointment will be made for a two year period and the fellow may work for either an M. S. or a Ph. D. degree. Applicants having a Master's Degree and intending to work for a doctorate will be given preference, however.

Mr. R. Wishnick, an alumnus of the class of 1914 in chemical engineering, is president-treasurer of the Wishnick-Tumpeer Company, manufacturers of chemicals and specialists in the production of lampblack and similar materials, and president and director of a number of corporations. About eight months ago, he was elected to the board of trustees of Armour Tech.

The fellowship carries a stipend of \$750 per year and it is expected that the fellow will use the research work done under this fellowship as thesis material for an advanced degree. A necessary qualification for this fellowship is that the fellow be an exceptionally able experimenter as well as having a thorough training in fundamentals.

Application should be made to Dr. Thomas C. Poulter, executive director of the Research Foundation.

## Coaches Present Honor Sweaters to Athletes at Awards Assembly

Receiving rewards for their athletic activities, four teams were granted letters and sweaters at the honor award assembly held last Friday, at 10:30, in the assembly hall. The rewards were presented by the coaches of the various teams. Acting as chairman of the meeting, Gene Heike, president of the A. T. S. A., introduced the coaches as well as the speaker.

Professor John Schommer, opening the meeting, proposed a vote of congratulations to the baseball team for winning the Northern Illinois Conference championship. Gold medals were voted for the team.

**Seven Majors in Basketball**  
Coach Grant Stenger presented the basketball team with their awards. Those receiving major awards were: Eugene Heike, captain and letterman for four years, Bob Merz, senior and member since his freshman year, Charles Shukes, Jack O'Connell and Bill O'Brien, co-captains-elect, Paul Henriksen, Ed Wagner, and Dave Forberg, manager. Awards were also given to Joseph Janicki, Ed Swanson, James Sheehan, and Al Kubicka.

Because of the absence of the swimming coach, E. McGilivray, the awards to the swimming team were made by the captain, Herbert Ruckberg. Major awards were given to: Herb Ruckberg, captain, Roy Dodge, captain-elect, Vic Swagdin, Bob Winkblad, Leroy Downing, Henry Manke, and Jack Stern, manager. Minor awards were given to James Smidl, Harold Saltzman, Walter Carlson,

All juniors wishing to apply for the position of intra-mural manager for the school year 1937-38 must make a written application by Thursday, June 3. Address application to C. W. Dunbar in care of the registrar's office.

## One Hundred Members of Musical Clubs Visit Pontiac for Concerts

Returning with the pride of achievement, Director O. Gordon Erickson led his *Armour* musical clubs in three successful concerts at his home town of Pontiac, Illinois, last Wednesday. Three buses were chartered to carry the hundred men who made the trip.

Arriving at 11:00 a.m., the orchestra and glee club performed first at the Illinois State Reformatory near Pontiac. Two concerts were necessary to take care of the nearly 2300 inmates. Their behavior and attention were perfect, the numbers having greatest appeal being B. F. Heine's accordion solos, F. Hrachovsky's Czechoslovakian songs, and G. A. Danforth's popular piano solos.

#### Dine at Reformatory

Lunch was served in the officers' dining room at the reformatory, following which the clubs toured the institution, observing the modern cell blocks, kitchen and dining room, power plant, garden work, machine and woodworking shops, and the production of highway signs and filing cabinets. The clubs then proceeded to the Pontiac High School for a short rehearsal.

The clubs wore summer formal attire for the evening concert at the High School auditorium. The program opened with the overture "Merry Wives of Windsor," by Nicoli, played by the orchestra. The glee club then sang "Pilgrim's Chorus" from "Tannhauser," and "On the Road to Mandalay," featuring T. W. Yeakle as baritone soloist.

#### Plan Trip for Later Date

Following the intermission, a negro theme predominated in "Ezekiel Saw De Wheel," "Going Home," and "Gershwin Themes," the last of which was arranged by George Danforth. Marshall Nystrom took the solo in "Just You," while Anthony Allegretti and Peter Woods featured "Songs of the Bayou" and "Air for Oboe," respectively. The club members appreciated the hospitality of Pontiac, and reports indicate that they would enjoy another engagement there at a future date.

# Poulter Breaks High Pressure Record With 1,500,000 Pounds

## Emil Flindt's Band Provides Music for Last Senior Dance

Emil Flindt's popular band of O'Henry Park and the Medinah Michigan Club will provide a setting for the last fling of the seniors as an undergraduate class on the night of June 11. The affair will be a closed senior dinner dance with bids, which are being sold by class commissioners, priced at \$3.30.

Arrangements for the dance have been made by Art Dreis, social chairman of the class. He has provided novel white suede programs which are sure to make a hit with the little dancing partner. Festivities will begin at 9:30 p.m.

In order that arrangements may be completed in time for the dance, Dreis has asked that all money be turned in by next Friday, June 4.

## New Cycle Editor



Louis Lange, Jr.

## Lange Appointed New Cycle Editor-in-Chief

Appointments of men to make up the staff of next year's *Cycle* were recently announced by Paul M. Martin, retiring editor-in-chief. Louis Lange, Jr., junior fire protection student, will take over the position of editor-in-chief. L. Idris Thomas is to be business manager, and Norman Rice, advertising manager.

Lange, who has worked on the *Cycle* since his freshman year, will succeed Martin, under whose leadership the *Cycle* of 1937 has been prepared. Other officers retiring are W. J. Laise, business manager, and L. I. Thomas, advertising manager.

## Dr. Frank, Main Speaker at the Alumni Banquet

"Developments in social science must be allowed to keep pace with progress in the physical sciences if social, economic, and spiritual stability are to be maintained." This was the nucleus of the address given by Dr. Glenn Frank, former president of the University of Wisconsin, at the Alumni Banquet held in the Medinah Club on May 25.

Dr. Frank believes that if the social possibilities of a scientific development could be foreseen and relayed to social scientists before the discovery actually affected the economic structure, methods of control could be worked out to preserve stability. He pointed out the dangers of a sociologist's attempt to be a physical scientist, or of a scientist's entry into politics.

#### Heike Gets Special Award

Master of ceremonies for the banquet was Professor John J. Schommer, president of the Alumni Association. He introduced Eugene A. Heike, who was awarded the Alumni Trophy for outstanding achievement among the undergraduates. The alumni were then introduced by classes at five year intervals, 1932 back to 1897. The class of 1907, celebrating its thirtieth anniversary, had the largest delegation, one representative coming in from California. The four who answered with the class of 1902 included Professors Freeman, Libby, and Nachman, and three men were present to celebrate the fortieth anniversary of '97.

#### Budget is Balanced

Dean Heald then introduced several of the school officers, notably President Emeritus Howard M. Raymond, who commended the work of *Armour* and greeted the alumni.

Mr. James Cunningham, chairman of the Board of Trustees, brought cheers with his announcement that for the first time in many years the budget was balanced, and that plans were under way toward broadening the scope of the school's work.

## New Design Apparatus Operated by Hand Power Only

History was made last Friday night at 9:30 o'clock in Armour Tech's high pressure laboratory when Dr. Thomas C. Poulter, director of the *Armour* Research Foundation, succeeded in obtaining a pressure of 1,500,000 pounds per square inch, more than twice as great as had ever been obtained in a closed cylinder under controlled laboratory conditions.

#### Pressures Affect Properties

Dr. Poulter was assisted by Professors J. B. Finnegan and W. W. Colvert. The significance of this extraordinary achievement is that it has demonstrated that it is possible to develop the technique of obtaining high pressures to an order far beyond anything that has ever before been attempted. It has been found that even at much lower pressures many of the properties of matter undergo profound changes.

The previous record in high pressure in a cylinder was held jointly by Dr. Poulter and Dr. P. W. Bridgman of Harvard University.

#### Haa Unique Feature

Pressures as high as 750,000 pounds per square inch have been obtained between two flat surfaces. The unique feature of Dr. Poulter's technique is that instead of multiplying the pressure by transferring from one cylinder to another, he developed the pressure right inside the cylinder on which the pressure was directly applied. This was accomplished by placing inside the comparatively large press cylinder a much smaller secondary one having a differential piston which multiplies the pressure by four. Since pressure is force per unit area it is possible to greatly increase the pressure on

(Continued on page four)

## Marshall and Peltier Win in A.I.Ch.E. Vote

At their final meeting of the year last Friday the *Armour* chapter of the A. I. Ch. E. held its annual election of student officers. The following men were elected: W. R. Marshall, chairman; N. K. Anderson, B. W. Gamson, and E. F. Wagner, senior officer committee; P. J. Peltier, secretary; J. Kubik, treasurer; and R. B. Boertitz, assistant treasurer. These men will lead the A. I. Ch. E. for the coming year and will be responsible for the program. The retiring officers are: J. A. Haase, A. J. Allegretti, L. F. Kacel, R. A. Clarke, H. J. Bodnar and W. R. Marshall.

The program of the past semester included a talk by Dr. Paul Bishop, director of research for the Corn Products Refining Company at Argo, "The Story of Iron and Steel" presented by a representative of the Carnegie Steel Company, and a talk on "The Calibration of Glassware" by Mr. Torp. Professor H. McCormack also spoke at one of the meetings on "The Benefaction of Manganese Ores."

## H. Newman, Freshman, Wins Alpha Chi Sigma Contest

Henry F. Newman was unanimously named winner of the essay contest sponsored by the *Armour* chapter of Alpha Chi Sigma, professional chemical fraternity, on the subject "Why I Intend to Study Chemical Engineering."

The contest was open to all freshmen expecting to study chemical engineering and attempted to foster interest among this group in their chosen profession. Entries were limited to 500 words. As a token of merit, Newman will be awarded a chemical Rubber Company Handbook. The judges of the contest were Professors O. A. Hogen, C. A. Tibbals, and H. McCormack.

## School Opens Early; Curriculum Changed

Several important changes will be found in the new school bulletin which will be ready for distribution by June 10. Most prominent of the curriculum changes is the placing of engineering mechanics in the second semester of the sophomore year and the first semester of the junior year for students in most of the options.

The change is accomplished by the elimination of the engineering problems course and the admission of a two semester hour course in social science called "Business Organization and Control." The new social science course will be taken in the first semester of the sophomore or junior years. Senior social science has been reduced from a four semester hour to a three semester hour course.

Instructions will begin on September 20 next fall with registration for freshmen on September 16 and for other students, September 17. The early start will be compensated by a two week vacation between semesters. The evening division next year will continue for seventeen weeks instead of the fifteen weeks of this year.

Entrance requirements have been slightly changed. Mechanical drawing is no longer a required entrance unit. The change reduces the entrance units in the required group from ten to nine and raises the units in the elective group from five to six. This was made necessary by the number of students applying for mechanical drawing.

In general the bulletin has been completely reheaded. The historical sketch, and the research foundation, evening division, and graduate division sections have been rewritten.

In addition to the regular engineering schedule, a tabular view of the co-op course will be included.

## Armour Professors to Attend S.P.E.E. Convention at M.I.T.

Massachusetts Institute of Technology and Harvard University will act as hosts when the forty-fifth annual meeting of the Society for the Promotion of Engineering Education convenes June 28 for a five day session. Several representatives of *Armour*, among whom are Dr. Hotchkiss, Dean Heald, and Professors Finnegan and Paul, are planning to attend and take an active part in the conference.

One of the central themes of the conference will be the subject of professional status and employment of engineering graduates. The idea of the professional status of engineers has received much discussion in the last few years, and the S. P. E. E. is naturally quite interested in the question.

A highlight of the program for the evening of June 30 is a concert by the Boston Symphony Orchestra. Members of the S. P. E. E. and their wives are to receive complimentary tickets for this unusual entertainment.

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**So Long, Fellows!**

Ge e, fellows, we've enjoyed your friendship and smiles of recognition during the past three years. In our first year, you made us wear those green mites and took us nicely in the freshman-sophomore rush but still after the battles were over and the boiling blood had simmered down, we forgot all.

We enjoyed dribbling around you in interclass basketball for the first two years to the championship and are happy that you are reconciled by a championship of your own this last season. The memory of sweat and extra effort to pass you on the track is sweet. Those thrilling innings in interclass baseball, the report of wood on

leather and the rousing cheers of our classmates will always be sweet memories.

Most recently in the fellowship of Junior Week, you laughed with us in the freak relay races—laughed at the stumbling of your men and ours; grunted in opposite directions in the tug-of-war; and mutually smelled of rotten eggs.

To the men with whom we were particularly associated on the *News* staff go out our hands. We enjoyed your sincere criticisms of our copy and the comradeship of "newsmen." You were "real guys."

**More Time for Lunch**

One item which has long been the subject of discussion is the short noon "hour" with which we have been blessed. Fraternity men especially find it inconvenient to have but fifty minutes for a hasty lunch and travel to and from the fraternity. No one would object to more time for after lunch relaxation, yet a change in the present hours has its disadvantages.

Several different ways of correcting the situation have been offered. One suggestion is to start at nine o'clock and to have one less hour in school, but this would magnify the difficulty of arranging programs, and would demand a larger professional staff and the conversion of more space into classrooms.

The suggestion of cutting, say, two minutes off each class and one minute off each between-classes period is met with disapproval from the offices. In addition there is the objection to ending one class at eleven twenty-three and one-quarter and beginning the next at eleven thirty-one and three-quarters.

Another solution offered is to have the morning classes begin at 8:10, 9:10, 10:10, and 11:10, thus having all the classes begin at ten minutes after the hour. A similar suggestion has been made to the faculty council, but those who live in the suburbs object to coming any earlier.

It seems to us that the students should at least vote on the question so that their wishes in the matter may be made known.

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

*Good morning, all my friends and professors! Because this is the last column this semester and because we want you to enjoy your last few moments here, we will refrain from mentioning exams. Exams mean nothing to us. We're out for the education and so tolerate the exams as a bit of an inconvenience. We never worry about exams, usually going out on a binge for a solid two weeks before the exams. We never worry about exams. We're flunking out this semester!*

"What have you done," St. Peter asked,  
"That I should admit you here?"  
"I ran a paper," the editor said,  
"At my college for one long year."  
St. Peter pityingly shook his head  
And gravely touched the bell.  
"Come in, poor thing, select a harp,  
"You've had your share of hell!"  
Northeastern News.

"How is it that women learn to swim more easily than men?"  
"Who wants to teach a man to swim, anyway?"

Sue: "My boss is an angel."  
Prue: "I'm so sorry!"

The hangman tightened the knot and asked the condemned golfer:  
"Well, do you have anything to say before I hang you?" The golfer piped up with "Yah sure. Mind if I take a couple of practice swings?"

*And are we glad we don't have to take Prof. Bibb's exam after that one...*

**Night owls seldom give a hoot.**

**Fraternity Notes**

The final week of school is here and the fraternities are casting farewell glances over the past year as well as looking forward to the coming summer and next fall.

**Sigma Alpha Mu Elects**  
Sigma Alpha Mu announces the election of the following officers: A. N. Schrieber, prior; I. E. Schlieke, exchequer; J. Mashman, recorder; R. Kohn, historian, M. Kahn, assistant exchequer. A new Triangle pledge is J. Wideman, Co-op '41.

**More Social Events**  
The Phi Kappis reveled at a radio dance at the house last Saturday night. Fifty-three couples were present at the Rho Delt dinner dance last week. Alumni from the year 1919 and up were present including the four charter members. Professor Nachman and "Sonny" Weissman were present. TX will have their senior farewell dance next Saturday at Dick Ansel's home; two weeks later they will have an alumni dance at the Edgewater Beach.

Wednesday, June 9 is the date for the Pi Kapp senior farewell, and reservations should be made early. On the same date the Deltas will put on their similar party.

**Triangle Convention in Black Hills**  
Most of the houses are planning their summer program consisting of the usual outings and dances. All of the Triangle actives are looking forward to the two weeks at their national Convention at the Black Hills of South Dakota.

The Pi Kapp Mother's Club will hold their annual pot luck dinner on June 10. Triangle held a combined alumni and active meeting last Thursday at the house.

**Last Shots**  
Phi Pi meets the Deltas in the golf finals and Phi Pi will also meet the Phi Kappis in the ping pong finals. Delt Nichols is having "fine" trouble with Nell Steele.

That's all for this year fellows. Good luck and lots of fun over the summer.

**Art Gum.**

Now that the school year is practically over we look back and see that the department has improved enormously this last year and we feel sure that it will improve even more next year.

We are very sorry that some of our professors are leaving and acknowledge that their criticism has been a great help to us and we wish to thank them for it. We are looking forward to next year when Mr. Deam will be the director of the department and we feel certain that his criticisms will help to boost us along even farther in the Beaux-Arts than we have gone this year.

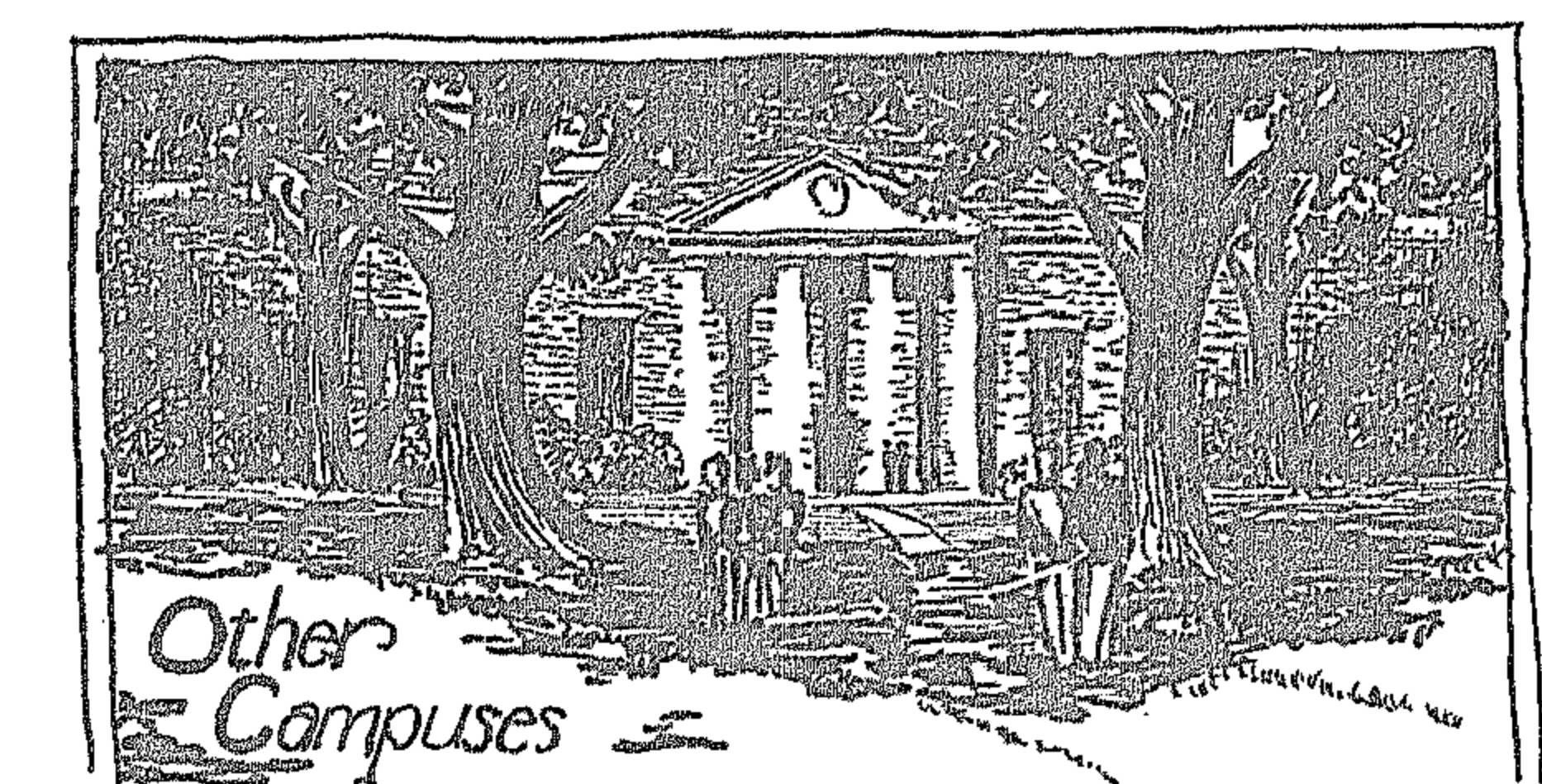
The librarians of the Burnham library have helped us a lot too, for we would never be able to design much of anything if they hadn't found many examples for us to use in the huge collection of books in their charge.

The last Class A judgment has just passed by now. Baker, Donnelly, Lohmiller, Ramp, and Saletta have one more mention to the credit, which isn't bad a'tall.

The column suggests that the following awards ought to be given:

- "Class writer of best insulting letters prize"—Moseley.
- "Laziest man who still gets a tet dose prize"—Parks.
- "Fly off the handle quickest prize"—Mike.
- "Modesty prize"—Kliphardt.
- "Sucker bettor prize"—Becker.
- "Going longest without a haircut prize"—Burnham and Lischer.

*—And now that the year's work is done I say 'bye now—see you in the fall.*



**Other Campuses**

Ever since Helen of Troy kidded the boys into thinking her face was worth the launching of 1,000 ships and a lengthy war—and before that, women have been making men do foolish things.

The beauty that makes men transform themselves into long-eared, Democratic symbols worked on a romantic freshman at Princeton University who met a lovely coed at a spring prom. Intoxicated with her beauty, he staggered home that night and penned her a Byronic-Swinburnian letter.

But when it came to address the envelope, he realized he had failed to get her name and address. Undaunted, he sent the letter to "The Most Beautiful Girl in South Orange, N. J."

A few days later it returned unopened and marked *Lost and Found, "To the Dumbest Boy at Princeton."*

A freshman at Harvard University, noting a bulletin board headed "Dates for English Examinations," remarked that there are hardly any functions to which a fellow can go stag anymore.

The odorless cabbage developed at Cornell University recently should make good cigars.

The United States has a higher proportion of college graduates than any other nation in the world. There is one graduate to every 44 persons...

A ONE-EYED BEE HAS BEEN DISCOVERED AT IOWA STATE UNIVERSITY. ONLY THREE OR FOUR HAVE EVER BEEN KNOWN TO ENTOMOLOGISTS.

Left handed students at the Kansas State Teachers College (Emporia) are protesting because there are not left handed chairs provided for them in the classrooms.

The trustees of Muskingum College have lifted a 97 year old ban against card playing and dancing by students. Bet that any day now they'll hear that the Civil War is over.

In a group of 150 schools considered as leading, athletically speaking, 62 had names of animals for their nicknames.

Statistics show that Yale graduates have 1.42 children, while Vassar college graduates have 1.85 chil-

dren, which proves that women have more children than men, or does it?

New York University (N. Y. C.) scientists have developed a sound microscope which magnifies sound 10,000,000,000 times. With it they have listened to a weevil boring into a grain of wheat.

An "electric eye" detects late-comers to physics classes at St. Thomas College. Even while the professor's back is turned, a person can't slip in undetected, for he must cross a beam and when he does a gong clangs.

It would take 503 years for one person to complete all the courses offered at Yale.

The girls at Berea College, in Kentucky, are either poor or they don't hold hands or kiss in the dorm "parlor." They are allowed to entertain three times a week from the hours of six to seven. If caught hand-holding they are fined \$10, and if caught osculating, they are fined \$25.

A three-wheel cart, scarcely larger than a portable typewriter, but weighing 200 pounds, is used at the University of Minnesota to transport the hospital's supply of radium. The cart is lined with a plate of lead, more than an inch thick and is surrounded by a copper plate covered with chromium.

**Around Washington**

By Marvin Cox  
A.C.P. Correspondent

WASHINGTON, D. C.—Deep in the recesses of the massive new Interior Building there is situated a unit of the Federal government that is accomplishing a dual task, both aspects of which relate to young people and education.

The organization of which I speak is the Federal Education Radio Project. Within the last few months more than 800 educational radio programs have been broadcast over 87 radio stations situated in 39 states. And most of the programs have been put on by students!

At New York University a Radio Workshop is maintained by the Education Project and selected students from various educational institutions receive training from recognized experts in the various phases of radio. But for every one of the students in the Radio Workshop there are 10 or more out in the states putting on through the cooperation of the Radio Project and its Script Exchange educational radio shows that have proved to be immensely popular.

The entire Radio Project is financed from WPA money, and, as in most WPA projects, 90% of the funds must go to relief clients. So CCC boys, unemployed actors, musicians, and engineers get WPA jobs to put over the program of educational radio. On the nation-wide hook-ups, however, the networks pay their own musicians and staff to provide the finished program.

The University of Arkansas is going to have an alumnus on the United States Supreme Court, if the prognosticators around Washington are right. Senator Joseph T. Robinson of Arkansas is slated for the appointment, according to alleged inside information, although certain of the President's advisors are said to be against him.

If ever anybody earned an appointment, Senator Robinson has. He has borne the brunt of the Administration's fights in the Senate, and he has always steered Administration measures through even when they were not in line with his own point of view.

This column concludes the present school year's work, and your Washington correspondent wishes you a pleasant vacation, and congratulations that you do not have to spend the summer months in Washington's shimmering heat.

The original high-pressure salesman was one Slug MacBustem, a masseur.

Wheat may be going up but the price of wild oats will be the same.

"Did you ever sell brushes?"  
"No, why?"  
"Well, you better get one quick and start sellin'. That's my husband at the front door."

"Yesterday I shot a hole through a nickel at 200 yards."  
"Humph! What did it get you?"  
"A son-in-law. The nickel was in his back pocket."

Wagner claims that if you give a girl three highballs she'll strike out for herself.

A nose dive is a plastic surgeon's office.

So long, good luck and a happy vacation, if any.

**Eejay.**

**The Steam Shovel**

The trouble with plants and animals is that just as soon as you start monkeying around with them they die, and then they're usually dead!" philosophizes Doug MacDonald to the softly snoring junior schmier class. Surely from the heavens drops light for youth if youth will walk thereby.

"One Down" Kruse wouldn't give up baseball for seven chem reports and a new pair of white shoes. "These baseball trips give a person a broad cultural background that will prove invaluable in later life." For further reports see the other eight old men.

"To h... with the Devil's Playground!" moans Milt Kooster, "n she was such sweet and innocent like!" Milt took a dare to dance with a girl sitting alone in the corner and liked it. When the floor show came on, his partner left him flat and reappeared as a hula dancer a la strip tease. Win the reward of the next world by suffering in this.....

**College Days, the Happiest of Your Life; Don't Worry, You Won't Flunk**

College days are the happiest days of your life. When the typewriter keys waver and fade in front of your eyes and you can no longer read the fifth place on the slipstick; when the index of refraction persists in coming out to be 7894.32; when the math prof hands back that quiz with an unhappy little sigh; then—then remember these are the happiest days of your life. Think of the friends you make, (what if he won't pay that twenty cents till Tuesday?) Think of the fact that school will close in another week. Feel it? Happiness! Daddy was right, college days are etc.

Therefore, depart softly from these hallowed halls, (always remembering to collect that twenty cents) toddle up to the departing seniors and shake them heartily by the hand. Poor souls, theirs no longer the assignments to occupy their idle time from 5:00 to midnight. Now, instead of merely getting D on a design problem they can have the much more satisfying experience of watching the bridge collapse when the first unsuspecting soul ventures out upon it. Be cautious with the leaving Chemicals; they will probably be shy and hard to approach, the poor souls having spent two thirds of their time in the evil smelling fog drifting about in the labs. Blow a little hydrogen sulphide in their face and they will recover rapidly from the asphyxiating effects of fresh air and evidence pathetic signs of delight at finding someone else in the building.

Unfortunately the semester closes this year after the final exams instead of before, as it has been determined that there is a greater attendance if this procedure is followed. So take the finals but don't attach too much importance to them. Nobody will flunk since flunks are said to be unpleasant to receive, and unpleasant experiences are contraverted as these are the Happiest Days of Your Life.

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**BUTLER IN THE LAMBDA CHI HOUSE AT ALABAMA HAS NAMED THREE OF HIS OFFSPRING LAMBDA, CHI AND ALPHA!**



## Track Team Closes Outdoor Season With Three Wins and Three Losses

### Dunbar Elected to Lead 1938 Track Squad

Name	In-door	Out-door	Total
Dunbar	17 1/2	81 1/2	99
Vandekieft	16	62 1/3	78 1/3
Rothberg	15 1/2	40 1/4	55 3/4
Faus	14	38	52
Bingham	15 1/2	28 1/4	43 3/4
Finnegan	17	26 1/4	43 1/4
Simeon	12	30	42
Ryan	10	24 1/4	34 1/4
Dixon	11	16 1/3	27 1/3
Deuter	3	23 1/2	26 1/2
Stechman	0	17	17
Braun	1	6 1/4	7 1/4
Ovilia	3	4	7
Dannis	3	3	6
Ewing	0	6	6
Meyer	0	6	6
Parker	1	5 1/3	6 1/3
Neuert	3 1/2	0	3 1/2
Bodnar	0	3	3
Helke	0	3	3
Widell	0	2	2
Loftus	0	1	1
Rogge	1	0	1
Totals	Exclude Inter-Varsity Competition		

With a meeting last Thursday the track squad put behind them one of their busiest seasons. Elected to lead next year's squad was Claire Dunbar, who has been for three years a bulwark of the team. His total of 99 points led the team in points during the past season. Succeeding Winkler as manager of the team is Monson.

In addition to the election of the new captain and manager, a list of the recommendations for awards was announced by Coach Norm Root. Twenty-one men are scheduled to receive them upon the approval of the A. T. S. A. board, which passes on all awards before they can be distributed. Of these, twelve were named for majors, two for minors and six for jersey awards.

**Dunbar Sets Record**  
Among the outstanding features of the past season were the breaking of one old Armour record and the tying of three others. Dunbar's time of :22.5 at Stag Field against Wheaton cut two-tenths of a second off the old record set by Sturm in 1930. In the pole vault, Dixon tied the existing indoor record of eleven feet, while Simeon and Vandekieft both tied the indoor high jump mark at five feet ten inches. The other record tied up was the half-mile relay at 1:37.4.

Concluding their season a week ago Saturday against Loyola with an 87 2/3 to 43 1/3 win, the squad finished up with a total of three wins as against the same number of losses. Opening the outdoor season at Elmhurst the Tech squad duplicated their indoor performance, but in a more thorough manner by downing the former 7 1/2 to 58 1/2.

**Beloit Is Victor**  
On the following Saturday the squad got the cold shoulder from the weather man, running against Beloit at the latter's field over a half drenched, and in places puddled track. To make things more uncomfortable a stiff cold wind blew up which prevented any fast times from being turned in. The final score was 62 2/3 to 54 1/3.

A week later Wheaton came here and took a close one 69-62 from the home squad. In direct contrast to the previous week conditions were ideal for running, and it was in this meet that Dunbar turned in his record breaking performance, running against Welman of Wheaton. Despite the fact that the Tech team took nine firsts out of the fifteen, Wheaton came through with their seconds and thirds which eventually told the tale.

**Tech Loses to Bradley**  
Another tough one to lose was the Bradley meet, but the performances turned in by the latter were a little too good for the Armour men. Backed by a strong entry in the dash and field events the home squad dashed, heaved and jumped to a comfortable lead. Running the century in :9.9, their dash man had little trouble winning his events, while their distance men proved to be no pikers.

Coming down the home stretch the Tech squad evened matters up by taking two meets in one week. On Wednesday they scored over a hundred points to easily win a triangular meet from La Grange and Wilson, and the following Saturday they finished up by downing the Loyolans.

## Kruse Shuts Out Lake Forest 5-0

Led by Willie Kruse, the Techawk sluggers, playing in championship style, chalked up their second win in as many days by downing Lake Forest a week ago Saturday.

Willie Kruse, pitching great ball, had complete control for his full nine innings. Statistic hounds might note that never more than one runner sat on a sack, only one of which got to third, and another reached second. Seven men were retired via the strike out route, and only two were given passes. Ground outs, pop-ups and fly outs were the main order of the day.

Armour put the game on ice by romping around to the extent of four runs and knocking the pitcher out of the box in the first inning. Logullo watched two good ones drift by and then waited patiently while pitcher Hien tried to pour number three down the groove. Hien tried hard on the next four tosses, but just couldn't get near the batsman, so Logullo took a complimentary to first base. Hien decided to show his further generosity to Logullo, and tried to nip him off first, but threw the ball into the spectator's laps instead. Lou took third on the antic. Wagner slapped out a single and Logullo scored. Seidenberg liked Hien's pitching too and cracked out a single, sending Wagner to second. Kruse tried to dodge a fast one, but was nipped, taking first and crowding the bags. Shewchuk knocked Hien from the box with a single, scoring both Wagner and Seidenberg.

At this point Lake Forest's gen-

## Dr. Poulter—

(Continued from page one)  
an object by decreasing the area on which a given force is applied. Since the ratio of area of the press cylinder to that of the secondary cylinder was 115 to one and the differential piston gives a ratio of four to one, it was necessary to develop a pressure of 3,300 pounds per square inch on the press cylinder, which was operated by the powerful arm of Dr. Poulter. This pressure was sufficient to produce 1,518,000 pounds per square inch and friction corrections bring this figure to one and a half million.

**Will Open Experimental Field**  
It can reasonably be expected that the attainment of such high pressures will open the way for some very valuable and interesting observations of the way that materials are changed by such unusual conditions. Some idea of what to expect may be obtained by referring to data obtained at lower pressures. At 120,000 pounds per square inch water can be compressed to six tenths its volume and at 600,000 pounds per square inch to one half, seeming to indicate that the compressibility drops off considerably and that a decrease in volume proportional to the pressure should not be expected. Due to changes in crystalline form, however, the compressibility may suddenly change at unpredictable points. At 600,000 pounds the water is changed to a solid whose melting point is higher than the boiling point of water at atmospheric pressure. At these pressures some metals such as mercury and cadmium have been found to change in crystalline form and oil has been compressed until it became as hard as metallic copper.

**Observe Optical Changes**  
Probably the most important application at present is concerned with the controversy which arises from data concerning the core of the earth. Some information indicates that it is liquid while other facts seem to show it to be a solid. Experiments at these tremendous pressures, which are comparable to those inside the earth, should be extremely helpful in solving this paradox.

Dr. Poulter has worked out a method whereby the effect of pressures up to 580,000 pounds can be visually observed through a window. This is over three times as great as the pressure at which others have been able to do so. Thus it has been made possible to observe changes in optical properties with pressure. Other research made in the realm of high pressures has disclosed that hydrogen or mercury may be forced through three inches of steel.

rosity to her south side guests came to a close. Maimen came in to pitch, and did a nice job for his eight and two-thirds innings. However, the North Shorers were putting the lock on the stable after the horse was gone. Skeppstrom grounded to the pitcher, and on the put out at first, Shewchuk scored, running the tally to four for the initial inning.

The next five innings featured a pitcher's duel that would make Dean and Hubbell gloat with envy. Neither pitcher was hit, and the innings went fast. Maimen fanned eleven Techawks, issued only three hits and let one runner cross home plate. If the over-generous Hien hadn't so willingly appeased the ravenous appetites of Tech sluggers with his palatable offerings from the mound, the spectators could imagine a great contest between Maimen and Kruse.

Shewchuk opened the Tech seventh by lining a long double to left center where Rouse kicked the ball around while he trotted to third. He came home for the game's last score when the short stop badly misplayed Skeppstrom's ground ball.

## Sidelines—

(Continued from page one)  
from engineering schools and become tradesmen, not engineers. This is not a satisfactory climax to the time and money spent for such an education.  
**Ignorance and Indifference**  
One would expect all engineers to be in favor of a registration law which would provide such benefits. This, however, is not the case. Charges of regimentation, political control, additional occupational taxes, unconstitutionality, restrictions of commercial engineers, and giving undue advantages to certain branches of engineering have been hurled. In general the civils and mechanicals are actively interested in the law, while the other branches are indifferent and term such a law a "nuisance." All such opposition among engineers is due to ignorance and lack of careful consideration of the law. The refutation of such opposition has been logically and clearly made in current technical periodicals. It is sufficient to say that the opposition is mostly indifferent and not active.

## Illinois Law

Illinois has had a structural engineering registration law since 1919. A bill has been introduced this year to the Sixtieth Assembly of Illinois entitled "The Illinois Professional Engineering Act" (House bills 297 and 298) which will include all branches of engineering. The bill was introduced by Arthur M. Kaindl, Democrat, from the 21st district in Chicago, who is a structural engineer for the local improvements board. The bill is written after the "model law" set up by the ECPD.

A careful consideration of the bill reveals the wide field covered in every branch of engineering. Those eligible to be registered as professional engineers must be over 21 years in age, of good moral character and temperate habits, and must have at least six years' practical experience. Graduates from recognized engineering schools need have only four years' practical experience. A board of three engineers will conduct periodic oral or written examinations for the license, and in conjunction with the Department of Registration will have the power to refuse to issue or renew, and to revoke licenses upon

evidences of fraud or incompetence. The registration fee will be \$20 and the yearly renewal fee \$3. All those practicing professional engineering at the time the law goes into effect will receive their license under the "Grandfathers Clause."

## Unions Lobby

This bill was given to the Committee on License and Miscellany of the General Assembly last March and as yet has received no attention. It is generally conceded that on account of the lobbying of labor organizations and the indifference of the engineering profession it will die in the committee this year. The labor unions fear the bill because they think it will include stationary and operating engineers. Such men are specifically exempted by the bill, however, and as soon as the labor unions overcome their ignorance such opposition will cease.

Only by passage of this bill can the engineering profession come to its rightful heritage. One wonders why it has not received more attention in the past, but then as Justice Brandeis has said, "Behind every argument is somebody's ignorance."

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