



# Armour Tech News



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## 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 Pi 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 Pi 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, Pi 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

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## Chemical's 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. Lyckburg, 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-Tumpey 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. McGillivray, the awards to the swimming team were made by the captain, Herbert Rueckberg. Major awards were given to: Herb Rueckberg, captain, Ray Dodge, captain-elect, Vic Swagdis, Bob Winblad, 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 hundred 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 f.l.g. cabinets. The clubs then proceeded to the Pontiac High School for a short rehearsal.

The clubs were 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. Yeake 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

### 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. The *Cycle* will be distributed this week, it was announced by Martin, and distribution will be in charge of Fred Engelthaler.

## 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.

## 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.

## 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 entrance without credit for mechanical drawing.

In general the bulletin has been completely reheated. 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.

## 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 less than half this amount and was held jointly by Dr. Poulter and Dr. P. W. Bridgman of Harvard University.

#### Has 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

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## 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 program 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.