

# Armour Tech News

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## Congress Honors Dr. T. C. Poulter for Polar Work Receives Congressional Award at Banquet

Five hundred guests paid homage to Dr. Thomas C. Poulter, director of the Research Foundation, last Wednesday evening at a dinner at the Palmer House. By a special act of Congress, he was awarded a Congressional Medal "for scientific accomplishment unequalled in polar exploration."

Dr. Poulter is now compiling the scientific data of the 1933-35 Byrd expedition, and it is expected that these will fill some 10 volumes of 300 pages each. The major portion of his endeavors were directed toward geophysics, aurora observations, meteor observations, magnetic soundings, and ice studies.

### Read Byrd's Message

Rear Admiral Byrd was unable to attend the ceremonies on account of his being ill, but he sent a message to be read at the banquet. Some of the sentences from his letter to Professor Finnegan, who made all the arrangements for the affair, serve to show his respect for Dr. Poulter:

"Commander Poulter stands No. 1 on my expedition in so far as deserving this medal is concerned. . . the hardest worker I have ever known. He started working on our scientific program two years before our expedition left the United States, and through his own efforts collected \$100,000 worth of scientific equipment. Every day he arose at six and worked far into the night on the scientific preparations. During the expedition he continued his hard labor, averaging at least sixteen hours a day on the job."

### Recalls Rescue

"It is clear, therefore, that I owe Poulter a great deal of gratitude for the success of our undertaking, but I have another and even deeper and more personal obligation to him. It was he, with two assistants, Demas and Waite, who risked his life to come to me during my lonely vigil when I became so grievously ill from the carbon monoxide poisoning from my faulty oil stove. Under the leadership of Poulter, they made this trip from Little America to Advance Base during the darkness of the winter night. It was one of the most difficult and hazardous journeys ever undertaken. . . ."

"The four of us were jammed together in that little two by four shack in the snow for two months. The temperature at times got lower than 70 degrees below zero. Under these conditions you get to know a man and to take his measure far more accurately than is possible under normal conditions of civilization."

## Power Discussed By Prof. Moreton

Professor D. P. Moreton of the electrical engineering department discussed the "Power Production Phase of Electrical Engineering" in an interesting lecture last Saturday evening from 7:15 to 7:30 p.m. over radio station WCFL. Interpreter for this broadcast was A. P. Schreiber, publicity director.

Professor Moreton stated in his talk that electricity did more work and did it better in 1937 than in any previous year, with the United States using more than two billion kilowatt hours of electrical energy a week.

In popular style, he told how energy is related to electricity. In the electrical motor the electrical energy is converted into mechanical; in the storage battery on discharge, chemical energy is converted into electrical, and in charge the reverse takes place; and in the toaster electric energy is converted into heat energy.

He developed in an understandable way the fundamentals of power production and the units used in electrical measurement such as the ampere, volt, ohm, and watt.

## Dr. Jakob to Teach Graduate Course in Heat Transmission

A graduate course in the evening in heat transmission for students of all departments, is to be offered by Dr. Max Jakob, recognized world authority on heat transmission. The program, as prepared by Dr. Jakob, is to cover the laws of conduction, convection, and radiation of heat, and problems of heat insulation and heat flow, as occurring in engineering practice. The course will deal with analytical, graphical and experimental methods, and with significant properties of substances and features of design; economical points of view will be considered.

### The outline of the course is:

- 1) Basic equations for the three kinds of heat transmission.
- 2) Significant properties of heat transmitting bodies and their measurement, including measurements of heat conductivity, materials for building and insulation, surface and fluid temperatures in convective heat transfer, and emission coefficients in radiation.
- 3) Typical general problems of heat transmission such as conduction in plates and cylinders, differential equations of heat convection, geometry of heat radiation between surfaces.
- 4) Typical special problems of heat transmission—insulation of pipes, heat conductivity in electrical coils, heat interchanges, transfer in heat engines, transmission from boiling liquids, transfer on stokers and in catalytic tubes, and radiation of heat under various conditions.

## Begin Conference Course Meetings

### Dr. H. L. McCarthy Speaks on Industrial Relations at First Meeting

"Industrial Relations Today" was the topic discussed by H. L. McCarthy, regional director of the social security board, at the first meeting of the second annual conference course on "Executive Control of Personnel" held Monday, January 17, at the Palmer House. Dr. McCarthy discussed the subject from an informed and practical viewpoint. His previous experience included work as manager of the regional labor board and as former dean of De Paul college of commerce.

### No Labor Trouble Panacea

"No single formula will straighten out all labor difficulties," Dr. McCarthy said, "since peace, harmony, and efficiency may be achieved in one situation with a union and in another without." He then related how a worker does not change his character or capacity to produce by joining a union. Of particular importance was his statement that the time has come when you decide things with employees whether there is a union or not. "No man can set himself up as a true diviner of the aspirations of his entire work force. Management must not forget that there exists in any establishment a social organization of those working together which may have very little relation to the organization structure that management has colored and charted."

### Initiative, Cooperation Parallel

Mr. McCarthy declared that we have been alert to make the most of the advantages of economic integration, but dangerously slow to realize the social obligation it entails. "The government must act as the people's agent in setting up safeguards against the economic hazards of the new situation. But individual initiative and social cooperation are not contradictions. Rather they are parallel tracks, and it is only when either gets out of line that democratic government is likely to be derailed."

John A. Stephens, manager of industrial relations, Carnegie Illinois Steel Corporation, spoke on "Practical Training Programs" last night at the second meeting of the conference course. Mr. Stephens emphasized the possibilities for cost reduction and improvements in quality which may result from attention to the instruction and upgrading of the skill of the worker.

## Co-ops to Welcome New Class at Dance

In order to welcome the new co-op class to Armour, the present co-ops are arranging a buffet supper and dance to be held at the Italian Room of the Allerton Hotel on February 5. W. E. Jordan, S. B. Dina, and W. L. Gendron are in charge of the arrangements for the affair.

The class made a trip to the R. R. Donnelley printing plant last Friday. More trips of this kind are being planned to keep the co-ops in touch with outside activities. A splash party is being planned for Friday, January 28, at the Bartlett Gym pool, for which W. Jordan is completing arrangements.

## Announce Freshman Scholarship Winners

Following the recent scholarship examination, given to ninety men on January 8 at Armour Tech, comes the announcement from the office of Dean Tibbals of the winners of the semi-annual awards.

The five high school students who were adjudged the all-around best, and who will be presented with the scholarships are: B. E. Bergman of Crane Tech, R. D. Jackel of Austin, J. Markell of Lane Tech, G. A. Raymond of Calumet, and H. E. Wessel of Foreman.

If, for any reason, any of the men are unable to accept, the scholarship will go to one of the following alternates: J. J. Jacobson, Tuley; R. A. Krause, Tilden; E. Motta, Lake View; J. J. Rowan, St. Paul, Minnesota, and R. J. Shamis, Hirsch.

The \$300 one year scholarships were awarded to the winner on the following basis: a high rating in the competitive exam in physics, chemistry and mathematics, and a satisfactory rating in English; a successful high school career, both in studies and in extra-curricular activities, and a personal interview with members of the scholarship committee.

## Cast Completed for Players Production

"Seek and ye shall find." The Players have sought, verily they have sought, and they have found—a girl to play the part of Natalya in "The Proposal."

She is none other than Miss Rose Dunn, the brightest star in the Chicago Repertory Group. Among numerous qualifications for the role, the new leading lady possesses a wealth of theatrical experience, a marked ability to act, an excellent figure, and a face to match.

A University of Chicago graduate, Miss Dunn has deviated from her career as an actress only to direct productions for the Y.W.C.A. and the Douglas Smith Players. After terminating her first rehearsal with the regular case, she expressed definite approval of her role, even comparing it favorably with her previous engagement in Ibsen's "Doll House" and "Peer Gynt."

Now that the cast is complete, the play's progress will be resumed. Barring any more untimely interruptions, "The Proposal" will be staged February 9.

## Fraternity Men Await Formal Dinner Dance

To the rhythm of Art Janke and his Captivators fraternity men will swing next Friday night at the Interfraternity Formal. For a pecuniary stipend of nominal magnitude, a dinner furnished by one of the finest cuisines in the city plus romantic rhythm under soft lights will long be retained as a memory by those who attend the annual formal.

The inter-fraternity council, which is sponsoring the dance, expects the houses to be well represented and are making arrangements for eighty to one hundred couples.

Besides being the first Armour formal for many of the pledges, it will also give the pledges an opportunity to outshine the other members of the houses who are now getting along in years.

## A. T. S. A. Releases New Budget; Appropriations Total \$15,007

### Armour Tech Student Association Budget Approved by Board of Control for the College Year 1937-38

Income—Student Activity Fees.....	\$15,270.00
Baseball .....	1,100.00
Basketball .....	1,400.00
Blankets .....	232.00
Boxing and Wrestling.....	450.00
Directors and Coaches.....	4,350.00
General Expenses .....	500.00
Golf .....	375.00
Intramural .....	75.00
Musical Clubs .....	450.00
Rifle Clubs .....	50.00
Swimming .....	250.00
Tennis .....	375.00
Track .....	650.00
Track Relays .....	425.00
Cycle .....	2,750.00
Armour Engineer .....	1,575.00
Total Appropriations .....	15,007.00
Reserve .....	263.00
	\$15,270.00

## Junior Formal to Feature Excellent Dancing Facilities Plus Gay Claridge's Music

Dining and dancing in a superlative style is the promise of the juniors at their Junior Formal dinner dance scheduled on the Armour social calendar for March 5.

Four and one-half hours of dancing on a perfect dance floor, with respect to both size and quality, to the music of Gay Claridge and his orchestra which, although new to Armour dancers, offers rhythm in a style worthy of any big name orchestra.

A seven course fried chicken dinner which will appeal to the most critical of persons will start the evening. Other arrangements will be provided as only Chicago's Palmer House, the site of the dance, can provide them.

Bids for the Formal will be on sale soon for \$5.50, which sum may be paid in installments any time before the dance. The bids will be on sale soon and may be purchased from any of the junior class officers, or any member of the social committee.

Arrangements have been made by B. G. Anderson, junior social chairman, for Armour men to rent formal clothes at a nominal price. Tuxedos will be available at \$3.25 and tails at \$4.25.

## Plans Underway for New Student Union

Plans for a student union which would include a complete remodeling of the Mission building are now underway. The architectural staff investigated the possibilities of the conversion of the Mission building into Armour's recreative center and found them rather good. In accordance with this, sample floor plans have already been completed.

Although nothing definite has been stated in regard to the exact nature of the remodeling, the promoters of the plan feel that the Civil drafting room could be easily converted into a spacious lounge.

Further possible changes submitted by the student leaders include the remodeling of various class rooms into offices for the alumni association, and the moving of the kitchen to one end of the ground floor so as to provide a large space for the formation of a large dining hall to accommodate the various student banquets. An idea was submitted which proposed the conversion of the assembly hall into a small dance floor by removing the obsolete furnishings and providing movable equipment.

When the plans are complete, definite statements as to the plan to be followed will be made.

## New Wash Room to Be Completed Soon

An entirely new and modern shower and washroom on the fifth floor of Main will be ready next semester, it was announced today by Mr. W. Koster, superintendent of maintenance.

The improvements will include a new type composition floor, eight showers, two Crane pedestal type lavatories, and an enlarged washroom.

The modernization came as an answer to complaints from various school groups which condemned the out-moded facilities. The improvements were originally planned for the summer vacation period but unavoidable circumstances prompted immediate attention.

Due to the temporary lack of wash room facilities on the fifth floor, freshmen are allowed to ride the elevator from 2:30 to 4:30 o'clock every afternoon.

## E. S. S. A. Meets to Discuss Constitution

For the purpose of formulating the articles of constitution of the newly organized Evening School Student Association, a constitutional committee consisting of nineteen night school men will meet next Saturday at 3:00 o'clock in D Mission.

The interest in the new student union among the evening school students is running high. Only about seventy men have attended the organization meetings; however these meetings were meant to be small since it was their purpose only to secure volunteers for the constitutional committee.

Dr. Freud, dean of the evening school, is solidly behind the new organization. It is what is needed to make these men feel that they are Armour men and not transient students, he says. Mr. Oakhill, temporary chairman of the group, believes the organization will be an exceptionally well balanced one whose activities are likely to be very diversified.

According to Mr. Oakhill, the night school student union should be of interest to day school men. It would provide the day school men with an invaluable means of contact with men actually engaged in industry.

The nineteen members of the constitutional committee will also act as temporary class chairmen. They will make a list of their classmates who wish to join and work with the Student Association.

It is only after the class groups are known, that the organization can come together and formulate its organizational plans and policies.

## Publications, Coaches Take Lion's Share of Allotments

In accordance with an amendment to the A.T.S.A. constitution passed by the student body in December of 1935 which stated that the budget of the Armour Tech Student Association should be published in the *Armour Tech News* each year so as to keep the student body informed of its expenditures, the A.T.S.A. budget for the year 1937-38 has been released.

Largest appropriations have been made for three items—directors and coaches, the *Cycle*, and the *Armour Engineer and Alumnus*. These three total \$8,675 of the \$15,270 income from student activity fees.

Not included in this budget is the amount appropriated from the activity fees for support of the *Armour Tech News*. This is one dollar per semester for each student. The money is given directly to the Board of Publications and is not administered by the A.T.S.A.

The item of blankets includes expenses for the award of a blanket to each graduating senior who has won a major "A" during any one of his four years. General expenses is a cushion item to take care of emergencies.

The Armour Tech Athletic Association was formed in 1935 and at the same time it was voted to add \$15 a year to the student fees in the form of an activity fee for the maintenance of student activities. In 1930, the student body voted that one dollar a semester to added to the activity fee to be used in operating the *Tech News*. The activity fee is appropriated to various activities by the Board of Control and disbursed through the treasurer of the Institute.

## Heald Returns from President Conference

Acting in his capacity as temporary president of Armour Institute, Dean Heald attended the meeting of the colleges in Illinois at the University of Illinois. This meeting, which was held last week, was suggested by the University of Illinois in order to discuss problems common to all colleges.

The University of Illinois maintains an Institutional Research Bureau to secure information to be used by these colleges. The first meeting was in the nature of an introduction to greater cooperation between Illinois colleges. A resolution was passed that they meet again in the Spring of this year to discuss at a conference whatever progress has been made.

The major problem that is confronting the group is the education of the public as to the aims and purposes of these colleges. Very few people really know the purpose of a great many colleges. Lack of this knowledge does not enable the general public to take full advantage of the opportunities offered them by these institutions of learning. Knowledge as to the purpose of agricultural, mining or osteopathic colleges is woefully lacking.

This conference composed of all colleges, not only engineering schools, is sponsored by the state university in order to enable the citizens of this state to realize the benefits of their educational facilities.

## "Bakelite" to Be Subject at Coming A.I.Ch.E. Meeting

A topic of interest to all students will be presented at the next meeting of the A.I.Ch.E. to be held on Friday, February 11 in science hall. "Bakelite" will be the topic of discussion and will be illustrated by movies shown through the courtesy of Chicago Moulded Projects Co., manufacturers and moulders of bakelite.

The movie was secured through the efforts of J. J. Bachner, graduate student.