



Student Members Elect Prof. Spears To A.T.S.A. Board

Last Tuesday, the student members of the A.T.S.A. convened in Physics Lecture Room and chose the second of the two faculty representatives required by the constitution. The man chosen for the position was Professor S. Spears, of the civil engineering department. He joined Professor Huntly who had been voted in at a previous meeting.

In selecting the representatives, the board took into consideration the experience of the prospect in Armour's student affairs, his popularity with the students, and the outside activities that might hinder his attendance at meetings. The board decided to place one restriction on the prospects, and that was that they not be employed by the board as athletic coaches. This immediately eliminated Coaches Stenger, Wiessman, Bibb, Colvert, and Root, although all were considered.

Professor Huntly was the first chosen and his choice was unanimous due to his past record and experiences with the affairs of the board.

At a subsequent meeting, Professor Spears was selected after consideration of three nominations. His popularity with the students, and his connection with Tau Beta Pi were deciding points in his favor when the vote was taken.

After a brief discussion about the completion of new union, and the Father's and Son's Banquet, the meeting adjourned.

Commission Men Chosen by Juniors

During the past week, the various departments of the junior class elected commissioners to represent them on the class governing body. As a result of their decision in favor of the commission form of government several weeks ago, the juniors thus did away with the elaborate and more cumbersome form of interdepartmental politics required by general class elections.

Among the first to elect their commissioners were the civils, who chose J. C. Balsewick and A. H. Pederson to represent them. The chemicals, who had been allotted three men by the apportionment committee, selected J. M. Fahey, S. A. Heenan, and L. W. Norkus as their representatives. The mechanicals, who also had been allowed three men, chose R. J. Bartusek, C. R. Eulo, and W. F. Yeager. J. Hartman and K. J. Oldenburg will represent the electricals, while H. B. Quandee and D. Sunde will take their places on the board of commissioners as representatives of the fire protects.

The thirteen men selected by the various departments will compromise the board of commissioners, and, as such, will administer the government of the junior class. The commissioners will elect their own officers and take over the management of the junior class this week.

Scoop on Subway Holds up Engineer

Because of a scoop about the Chicago subway system the *Armour Engineer and Alumnus* was not issued last week as scheduled. It has now gone to press and should be ready by the end of this week.

Mr. Phillip Harrington, Chicago traction engineer and supervisor of all plans concerning the proposed subway, writes about this project. Mr. Harrington is an Armour graduate, having received his E.E. degree in 1906. Before his present position he worked for the city of Chicago in other engineering capacities, having been for a time the chief engineer of the sanitary district.

Other stories of interest in this issue will concern oxyacetylene welding and cutting, industrial air conditioning, factory lighting, and fire prevention.

Normal Teachers Invite Techhawks to Social Nov. 4

An invitation to Armour students was received by the school officials yesterday. The event is a Friday afternoon social on Nov. 4, at the Chicago Teachers College, which will last from 3:30 to 5:30 p.m. As the invitation is limited, men interested in attending are asked to leave their names in the Registrar's Office. Only those having tickets will be admitted. Dancing will be held in the gymnasium of the Teachers College and music will be furnished by a student dance orchestra. The school is located at 6800 S. Stewart Avenue.

Civil Dept. Starts 'City and Highway Planning' Elective

In order to keep abreast of current trends in engineering, the civil engineering department is teaching an elective course in City and Highway Planning. This course, taught by Professor S. M. Spears, stresses principally the traffic engineering phase of the work. To date, students taking the course have been engaged in collection of volume of traffic and speed data. The course will later include the correlation of this data, analysis of data, and ultimate recommendations made from the proper analysis.

Although the title "City and Highway Planning" may seem at first sight to be a misnomer, there is a definite correlation between traffic engineering and city and highway planning. Traffic must get to various parts of a city and as the city expands, streets must be provided to facilitate free flow of traffic.

At present, there is little or no actual city planning. However, there is a tendency for many cities to expand into suburbs. This introduces a zoning problem. The new course endeavors to show students how zoning can be forced by street layout rather than with the aid of legal enforcement bureaus.

These are not the only problems that arise in city and highway planning and the course is not designed to dogmatically solve all the questions. It merely attempts to acquaint the student with some of the problems which occur and gives him a knowledge of the general procedure in the solution of such problems.

Frosh Choose Petition Ballot

Freshman initiative has again displayed itself in the form of a new plan for electing permanent officers for the class. These elections will begin Friday, after a week's delay due to postponing the freshman meeting last week because of other activities in Science Hall.

Under the new plan introduced by the election committee, petitions will be circulated among the students. Any freshman who feels he is capable of filling an office and wishes to be elected, will be required to have his petition for that office signed by twenty-five eligible student members. When the student returns his petition to the officers of the election committee, his name will be entered among the candidates for that office.

A primary and final election will determine the officers.

The purpose of the primary election is to reduce the number of candidates to three for each of the four offices. These four offices are: president, vice-president, secretary-treasurer, and A.T.S.A. representative.

The freshman election committee will be in charge of the meeting. This committee is composed of four freshmen, elected at a meeting held early in October. They are: R. Täte, W. Umbright, T. Krupnik, and F. Kein.

G. F. Backman is acting-president of the class, having been elected on an open ballot at a previous meeting to select temporary officers. The remaining offices are filled temporarily by E. R. Ther, vice-president; R. Talcott, secretary-treasurer; and E. Huxhold, A.T.S.A. representative.

Prof. H. Enszy Says "Use Subway Waste Soil for Airport"

Clay removed during the construction of Chicago's new subway would form an excellent base for the island fill necessary for the construction of a lake front airport, according to Herbert Enszy of Armour. Professor Enszy is well known as a soil expert and, at present, is engaged in testing the clay from which the new subway will be cut.

Questions were raised recently as to what would be done with the removed clay. Several prominent persons suggested that the earth be used to fill in part of the triangular island necessary for the projected \$3,587,500 lake-front airport to be made in Lake Michigan, 1,600 feet off the eastern shore of Northerly Island.

The island is to be 200 acres in area and will require a total of 10-250,000 yards of fill material. Although the subway would yield only 1,800,000 cubic yards, it would reduce the cost by \$627,802.

"Clay has considerable cohesion and resists taking on or giving off water," Prof. Enszy told reporters. "If the clay were dumped at the site of the island, even without bulkheads, it would stay there."

According to Capt. Samuel N. Karick, federal district engineer, confining of the material by bulkhead would be required by Federal statute. Unless funds can be found to build a \$2,000,000 bulkhead, the project may be abandoned.

A.S.M.E. Will Show Movies at Meeting On Oil Processing

Studebaker Inspection Trip Called Huge Success

A. J. Smith of the Calumet Refining Company will present a sound movie, showing the entire processing of petroleum from the well through the refinery, at the next meeting of the A.S.M.E. which will be held Friday in Science Hall. Mr. Smith will also present a demonstration of various testing equipment. This movie and demonstration was presented before the mechanical engineering graduate and research students last week where it was received with much enthusiasm.

On November 8, at 3 o'clock, Mr. S. W. Wheelwright will present a lecture on polarized light. This lecture should be attended by all members as Mr. Wheelwright is a nationally known authority on the subject. The lecture which will be presented at Armour will be the same lecture that Mr. Wheelwright will present later in the evening at the Civic Opera House where an attendance charge will be made.

One of the largest groups ever to attend an inspection trip were conducted through the South Bend, Studebaker plant last Wednesday. The group, numbering over 125, met at the huge 800 acre proving grounds located 12 miles west of South Bend and were allowed to witness actual road tests of Studebaker cars and trucks over various types of pavement. The men were then taken to the manufacturing plant in South Bend where they examined the foundry, one of the most modern in existence, where the cast portions of the vehicles are produced. The machine shops were visited next, where the castings and forgings were being machined and assembled to the closest tolerances in the automotive industry.

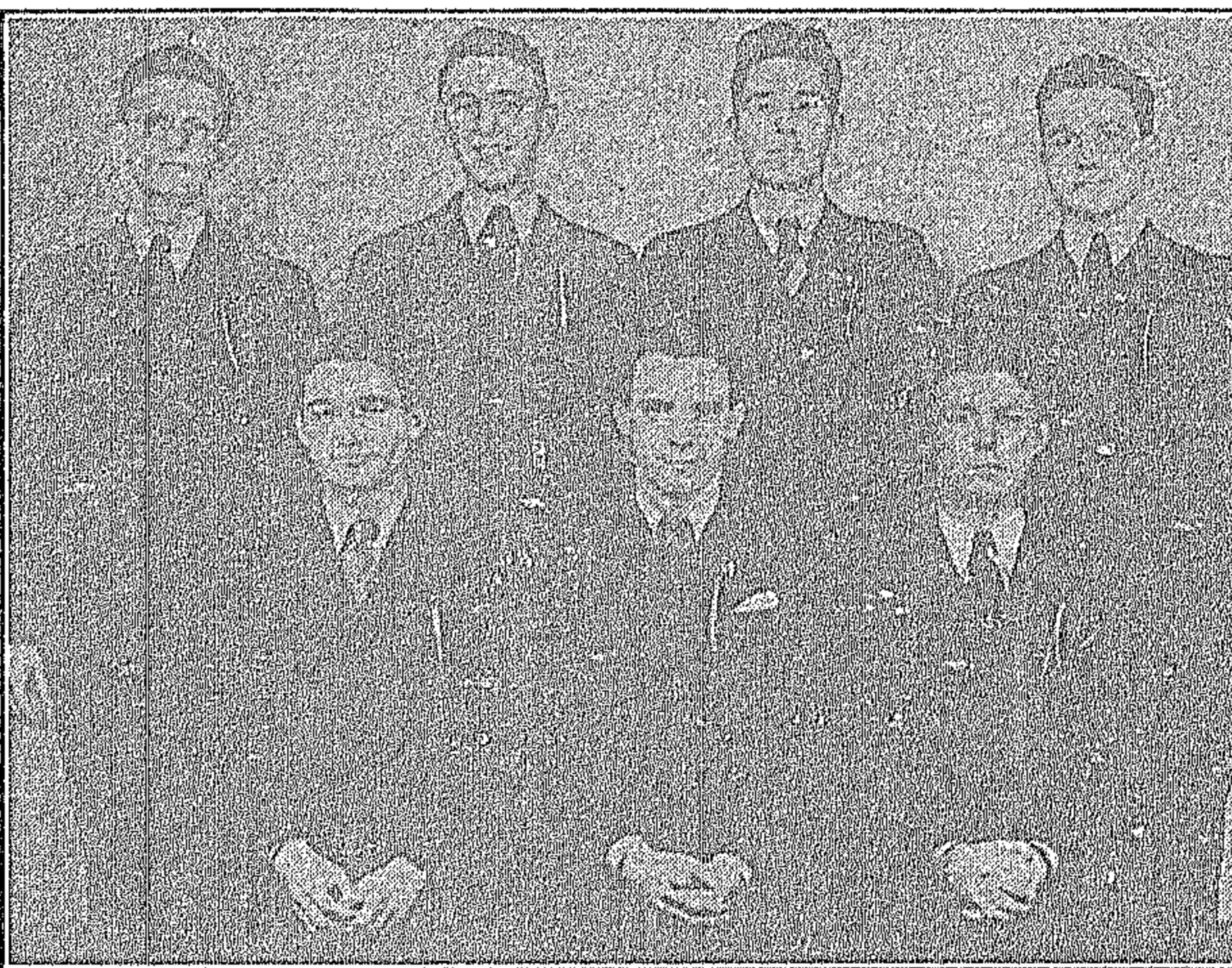
Luncheon was served at the company cafeteria, after which the group inspected the transportation museum located in the same building.

NOTICE

According to an announcement from the Dean's Office, students are not to enter the Union Building during working hours.

Seven Outstanding Seniors Pledged Into Tau Beta Pi at Public Assembly Friday

TAU BETE PLEDGES



Standing, left to right are: P. Henriksen, A. M. Richardson, H. R. Coyle, and J. J. Janicek. Seated, left to right are: R. I. Jaffee, R. B. Boertitz, and J. D. Keane.

Aurora Co-op Students Organize Social Club

At the suggestion of C. J. Carlson, the co-op students in Aurora and neighboring communities have organized the "Aurora Armour Co-op Club." The club is composed entirely of co-op students headed by two executive officers, and Mr. Carlson, who is an Armour graduate and now instructor in Mechanical Drawing at the East Aurora High School.

For its next meeting which will be held Nov. 18, the club has invited Mike Kendall, Chief Engineer for the Stevens-Adamson Company, Aurora, to speak on "The Relation of the Engineer to Industry." Mr. Kendall is a well-known engineer and has designed numerous devices now in use on Stevens-Adamson conveyors, elevators, and transmission equipment.

Regular meetings of the club will be held once a month at a time convenient for the members at school and at work. Engineers and executives from factories in or near Aurora will be invited to speak at these meetings on subjects of special interest to both the group and the speaker.

Two presidents have been elected by the members as the only officers. (Continued on page four)

Prof. Reed Will Start New 'Tuesday Series' of Lectures Today, 11:30

A second series of public lectures is to be started today by Professor M. B. Reed of the electrical engineering department, in 217 Chapin Hall at 11:30 a.m. His subject will be "The Fallacious Concepts of Physics and Electrical Engineering." He will reveal the erroneous concepts about electrical voltage and magnetic flux. This mathematical treatment of the theories was borrowed from hydrodynamics, because of the assumed analogy of the flow of an electrical current to that of a stream of water in a pipe. This was developed by the Bernoulli brothers, James and John, as well as others. It was from this theory that the names of the concepts were taken. Engineers and physicists, in turn have interpreted the meanings of these concepts from their corresponding names in hydrodynamics, instead of interpreting them from their defining equations; this has caused confusing results.

Professor Reed's series will be the first of what will be known as the "Tuesday Series" of public lectures. Dr. Olson's lectures will be completed this Thursday by the last in his series, entitled "Symbolic Logic," which will be held in 217 Chapin Hall at 11:30 a.m.

This will deal almost exclusively with Bertrand Russell's *Principia Mathematica*, showing the theorems and structure of symbolic logic.

It's 'Armour Night' at the Stevens' Continental Room Friday; Plan Student Show

The regular "College Night" will be "Armour Night" at the Continental Room of the Stevens Hotel this Friday. Holders of the small green student courtesy card will be admitted for the special student rate.

The Armour songs will be played by the orchestra, and, perhaps, some local talent from Armour will help the floor show entertain.

The student courtesy card enables the holder to avoid paying the customary \$1.50 per person minimum charge, by paying \$1.00 per couple admission charge at the door.

A.I.E.E. Smoker To Have Sound Movies and Talk

Tomorrow evening at 7:30, the Armour Chapter of the American Institute of Electrical Engineers will hold its annual smoker in the Electrical Lecture Room.

The evening will be both entertaining and educative. The talk of the evening will be presented by Dr. Reed, new member of the electrical engineering department staff, who will present a discussion on "Generating Stations"—a physical picture of the necessary contents of a modern generating station and the experiences the professor has encountered in his industrial work. The insulation of copper cable will be presented in motion pictures with a super attraction of a "Mickey Mouse" to enliven the proceedings.

Entertainment in the form of a Monte Carlo party will make the remainder of the evening more lively. Prizes will be awarded to the persons having won the most stage money during the evening. The evening will be topped off by cider and doughnuts. The A.I.E.E. invites all electrical students to the event of the year.

Yeakle, Zarem Pledged To Honorary Literary

Two men will be pledged to Sphinx, the honorary literary society of Armour, at noon today. The fraternity acknowledges the efforts of those students who have performed outstanding work for any of the school publications. The two men are: T. W. Yeakle and A. M. Zarem.

Besides being copy editor of the *Armour Tech News*, T. W. Yeakle is vice-president of Tau Beta Pi, president of the Musical Clubs, and vice-president of Salamander.

A. M. Zarem, a columnist of the *Armour Tech News*, is also recording secretary of Tau Beta Pi, a member of Eta Kappa Nu, a senior class commissioner and president of the local branch of the A.I.E.E.

Both men will be formally initiated into Sphinx early in December.

Address Explaining Tau Bete Purposes Made by Spears

Announcement of pledging to Tau Beta Pi, the national honoring engineering fraternity, was made last Friday in Science Hall, by Professor S. M. Spears. All of the seven men who were honored are outstanding members of the senior class. These men are Roland B. Boertitz, Howard R. Coyle, Paul F. Henriksen, Robert I. Jaffee, Joseph J. Janicek, John D. Keane, and Ambrose M. Richardson.

Outlines History

In opening the meeting Professor Spears gave a short history of Tau Beta Pi, stating that it was founded in 1885. Following that he recounted the purpose of the society. Tau Beta Pi was organized to offer a mark of distinction to those men who stood above their fellow students and who brought honor to their alma mater before and after graduation.

Election to the fraternity is based on several qualifications, primary among them being high scholastic standing, which determines eligibility. The number and size of the outside activities of each prospective member are then carefully considered. Men who are elected from the senior class must rank in the upper quarter of their class, while juniors must be in the upper eighth of their class.

Identifies Honor Men

One of the things which Professor Spears stressed in his address was the utter fallacy in the idea that an honorary key was not an asset when seeking a position in industry. Tau Beta Pi keys, shaped in the form of a bent, serve to identify the honor men in the profession of engineering. It is absurd to think that such a mark could be detrimental to a man's opportunities. The key of Tau Beta Pi serves notice to the world that its possessor has outstanding capabilities in his chosen work and commands the respect of all.

As Professor Spears outlined the names and activities of the men elected, each in his turn walked to the front of the hall to receive his (Continued on page four)

Anderson, Zarem Named Heads of Senior Commission

Organization is making rapid strides in the senior class. So far the commission form of government has been highly successful. The plan being used by the senior class is well designed. All students who are desirous of being placed on a committee are invited to submit letters to the commission on their qualifications. The letters are carefully read and the members are chosen from the list. On each committee there is to be at least one commissioner.

Bolton Anderson was unanimously elected chairman of the social committee at the meeting held last Friday. The possibility of holding a dance in the Student Union was considered. Definite plans for the year's social activities will be released shortly. The other members of the social committee are Chapman, Collier, Footlik, Kotal, Mitchell, and Muculeski.

Members of the jewelry committee have also been appointed. A. M. Zarem was appointed as chairman at the meeting last Friday. Plans were made to find the type of rings desired by the class, and to find if keys were more popular. The members of the committee were instructed to go back to the class and find the preference without holding a meeting of the entire class. There is to be another meeting of the committee next Friday. The other members of the committee are Boertitz, Finnegan, Jacobson, Oswald, Ratto, and Tullgren.

Other committees will be chosen in the near future as the need for committees arises.