



I. A. A. MEETS AT CONGRESS HOTEL TO REVIEW PAST

Dean John C. Penn Presides as Chairman

FOUR DAYS DURATION

John C. Penn, Dean of Engineering, presided as chairman for one day at the thirty-fourth annual convention of the International Acetylene Association, held last week at the Congress Hotel. The convention, of four days' duration, was held for the purpose of reviewing past performances and relaying valuable information pertaining to the field of oxy-acetylene activities.

Under the chairmanship of Dean Penn, the subject for discussion was "Acetylene and Oxygen in Education and Research." One of the most interesting of all orations delivered was that of Reverend J. A. Nieuwland, University of Notre Dame, who dealt with the subject of "Basic Research Possibilities in Acetylene and Calcium Carbide." He stated that the large number of organic compounds in use today are obtained by the application of one of three methods. First, they may be natural products which have only to be collected and, perhaps, refined. Second, it may result from partial synthesis in which chemical methods are used to convert natural products into new materials. Third, these organic chemicals may be produced by total synthesis from an elemental form of carbon.

Training of Personnel Essential

In concluding his detailed account, Reverend Nieuwland said that there are many promising reactions of acetylene which today are in about the same stage of development that was formerly occupied by the processes which are now used in manufacture.

The second speaker for the occasion was Professor H. A. Frommelt of Marquette University. He brought out the fact that industry, in the final analysis depends upon man power. Yet, he pointed out, that those concerned with industrial activities are only too prone to forget that not only does the final success of an industrial enterprise depend upon its personnel but that this success is directly proportional to the training and education of that personnel.

Industry and Colleges Allied

Professor Frommelt said that the business of having technical and scientific courses dealing with the welding industry taught in engineering curricula depends in the main upon keeping available the technical and scientific data around which such courses can be built. Closer relation between industry and engineering colleges was also advised by the speaker.

The speaker made plain, first, that technical information concerning welding and welding materials must be made available; second, that such information and data must be worked into engineering courses; third, and finally, that such data and information must be provided at least through the cooperation of an association such as the International Acetylene Association.

Teaching of Welding Difficult

W. R. Campbell, superintendent of Serval, Incorporated, delivered an address on "Training for Welding and Cutting in Refrigeration and Air Conditioning." He stated that the teaching of students to handle such tricky instruments as the blow pipe, especially with such powerful agents as acetylene and oxygen is indeed a problem.

G. O. Carter, consulting engineer for the Linde Air Products Company spoke on the "Importance of the Technician's and Welder's Ingenuity." Many of the problems encountered in the field of industry are more ably met because of the remarkable ingenuity displayed by certain welders, according to Mr. Carter. However, the impression should not be gained that the welder is being left to his own resources.

Rifle Team Will Meet Humboldt

Sunday, Oct. 15, the Rifle Club of Armour Tech will engage in its third and final match with Humboldt Park Rifle Club, for a silver trophy. This will be the first outdoor match this season. The two previous indoor matches with this organization were split; the Tech-hawks winning the first by one point, and losing the second by thirteen points. The seven man team will very likely be composed of the following men, although some may be replaced by new members: Richard Harwood, William Henning, Walter Hollmann, Arthur Marow, Elmer Renstrom, Carl Sachs, Donald Wilson.

New Men Turn Out

A meeting was held last Friday, during the lunch time to bring aspiring riflemen into the club. There was a very large turnout of new men; three or four of them having had previous experience at such work. The club was also fortunate in having the return of two old men, Walter Hollmann and Donald Wilson, who are taking another year's work to get their Master's degree.

The new members were also told at this meeting of the development of the Rifle Club and its rise to recognition by the school. It has only been about five or six years that the organization has been active, and at first it was of little importance in the school affairs. About four years ago the school finally recognized the riflemen and started the custom of giving them each a small gold "A" for use as a watch fob. However, the members felt that they should be equal to other teams in recognition by the college. Accordingly, last year a petition asking for representation in the Athletic Board of Control was signed by the school members and it was granted.

To Present Seven Awards Annually

A suitable design was immediately selected as an award, but because of a misunderstanding, the sweaters arrived in August without the awards on them. The present plans are to suggest several new designs for the awards to the Board at its meeting Tuesday, October 3, and to present seven team awards each year.

Galbraith Wins Essay Contest

Leo C. Galbraith, E. E. '35 is the 1933 winner of the Standard Handbook for Electrical Engineers awarded as first prize in the annual essay contest sponsored by Eta Kappa Nu, honorary Electrical Engineering fraternity. His essay was titled "Photo-electric Cells and Their Applications" and is to be published in the next edition of the Armour Engineer. Jacob M. Bard received honorable mention for his essay on "Intermittent Light—the Stroboscope." The entries were judged by James Juvinall, Stephen Lehmann, Milton Priban, and Paul Thompson.

All sophomore electricals are eligible to submit an essay in the Eta Kappa Nu contest which occurs each spring. The essays should be on some phase of electricity of interest to the contestant and should be somewhere between one and two thousand words in length.

Essays that have won the handbook in past years have been written on the following subjects: "Lighting—A Review of Progress Made and Its Study"; "Sun Spots and Their Effect on Radio"; and "Directional Beam Wireless Transmission."

Dean Penn to Speak Before Civils Friday

Next Friday morning at 10:30 o'clock a meeting of the Western Society of Engineers is to be held in room B Mission. Dean Penn, who spent the greater part of the summer on a trip to his native country, is to speak on "Reclamation in the Netherlands." All students in the department of civil engineering are cordially invited to attend.

Students interested in a course in Physical Metallurgy are requested to see Professor Carpenter at once. The course is designed for non-chemical students and is intended for upper class and post-graduate students. It will be given from 2:00 to 5:00 on Thursdays.

F.P.E.S. TO HEAR McAULIFFE TALK AT NEXT MEETING

Fire chief McAuliffe will speak on the "Insurance Patrol and Its Functions" at the next meeting of the Fire Protection Engineering Society which will be held Friday, Oct. 13 at 10:30 o'clock. A. J. Anderson, president of the society, urges all of the Fire Protects to attend.

Last Friday, the society held a meeting at which Mr. Frank Erion, one of the foremost adjusters in the United States, was the speaker. He spoke on the "Adjustment of Fire Losses," telling some of the interesting experiences he has had in dealing with sprinkler leakage losses, as well as fire losses due to serious hazards. He also told about the human element which has to be dealt with in fire losses.

Tells of Sprinkler Damage

In one case of a sprinkler loss, Mr. Erion found that sprinkler leakage was caused by a workman dropping a bucket on one of the sprinkler pipes, bursting it and allowing the water to flow out for about five minutes. This leak was sprung on the eighth floor, but the greatest damage was done on the sixth floor where linotype machines were used. The water had fallen into the molten lead used in one of the machines, spraying the lead on the operator and damaging the machine.

Standard Oil Has Mishap

Another of his experiences was with a fire loss in a Standard Oil refinery. In this plant about 25,000 gallons of naphtha were constantly used for purifying thousands of gallons of oil. One day the naphtha exploded, killing nine persons and doing considerable damage to the plant. The people who lived near there became indignant towards Rockefeller for his disregard for human life and safety of his employees, in using such large quantities of hazardous material. What really had happened was that this hazard was very well safeguarded, but in another part of the plant there was a minor hazard which had been overlooked by the inspector, and from this point a fire had started which burned for two hours and then had reached the naphtha filled room causing the explosion.

After completing this story, Mr. Erion concluded by advising the prospective inspector never to overlook anything in the way of minor or major hazards.

West Appointed to Succeed McFarland

George A. West has recently been appointed advertising manager of the *Armour Engineer* to fill the vacancy caused by the resignation of Rolland McFarland. The latter could not continue his duties on the magazine because he is working and at the same time carrying a full program of school work. West will have the help of Charles D. Thomsen as assistant advertising manager.

A.I.Ch.E. Opens Year With Meeting Friday

Next Friday morning at 10:30 the Armour chapter of the American Institute of Chemical Engineers will hold a business meeting for the purpose of organizing for the coming year. The place where the meeting will be held will be posted on one of the bulletin boards in the lobby of the main building later in the week.

All students in the department of chemical engineering, whether previously members of the society or not, are invited to attend.

POST GRADUATES SPECIALIZING FOR MASTER DEGREES

Advanced Subjects and Additional Courses Being Taught

FOURTEEN RETURN

Graduate courses leading to the degree of Master of Science appear to be popular judging by the fourteen men who are taking the highly specialized work which is profitable these days for those who expect to continue study and work in the engineering field.

Several Departments Represented

Of these fourteen men, five are in the department of electrical engineering, four in the department of chemical engineering, three are architectural students, and two are in the civil engineering department. The names of these men are as follows: Earl G. Beard, C. E., Emmet L. Cordes, Ch. E., Anton Demikis Jr., E. E., Walter J. Hollmann, Ch. E., James W. Juvinall, E. E., Phillip Light, E. E., William W. Lange, E. E., Herman Meyer, C. E., Altus Ream, Ch. E., Julius Sandstedt, Arch., Leroy F. Skubic, Arch., Orville J. Spawn, Ch. E., George W. Terp, Jr., Arch., and Donald G. Wilson, E. E. Most of the men have graduated from Armour Institute with the exception of Phillip Light, who graduated from Lewis Institute.

Programs Largely Elective

The programs of the graduate courses are largely elective, and consist of advanced work and specialized study in the field in which the bachelor's degree was taken. At least two of the required unit courses must be in a research problem requiring a thesis.

All of the courses are highly specialized and consist of advanced courses in electricity, chemistry, and architecture. The courses are a continuation of subjects regularly taught during the four year courses. Other subjects being taken are German and Social Science, new additions to the subjects taught at Armour. German is required in the chemical engineering department and Social Science by the mechanical engineering department.

Freshmen Nominate Election Committee

On Thursday, September 28 at 10:30 a. m., the freshman class held its first meeting in the assembly hall in Mission building.

Freshman handbooks were distributed and Dean Heald gave an explanation of Rush Week. A temporary chairman was appointed by Dean Heald and nominations were held for the election committee. Those nominated were P. Reh, A. Dreis, N. McGuone, S. Brenner, F. Comegys, D. Forberg and H. Ross. The committee elected its own chairman, P. Reh.

The chairman announced that his committee would meet at a later date and that probably the petition system would be used for nominating the officers.

Pi Tau Sigma Pledges Six Upper Classmen

Pi Tau Sigma held its semi-annual smoker last Thursday evening, September 28 at the Truss Club rooms for the purpose of pledging new members.

Four seniors and two juniors were pledged during the evening and later furnished entertainment for the members. The pledges are W. Hensel '34, C. Johnson '34, J. Manly '34, R. Stahl '34, J. DeBoo '35, and R. Maci '35.

Plans for the coming Pi Tau Sigma convention to be held in Chicago are rapidly being formulated and the pledges will add their efforts to those of the members to make the convention a success.

Juniors Inspect Pumping Station

Last Thursday afternoon the junior chemical engineering class visited the 68th Street pumping station and experimental filtration plant of the Chicago Water Works on their initial inspection trip. The visit was arranged in connection with the experiments on industrial and sanitary water purification which the class is now performing in the laboratory.

Chlorination Only Treatment Used

The only treatment which the water undergoes before being pumped into the mains is chlorination. The water enters a tunnel at the 68th Street crib in Lake Michigan and is sucked out of the shore end of the tunnel by large electrically driven centrifugal pumps. The chlorine in a water solution is piped into the shore end of the tunnel just in advance of the pumps intakes. The chlorination takes place while the water is passing through the pumps.

Phenol Treatment Being Developed

The water which originates at the 68th Street crib frequently contains phenol wastes from the factories at the south end of the lake and is largely the cause of the numerous complaints of bad taste which are heard from the south side. While the phenol itself does not affect the taste, it reacts with the chlorine during chlorination forming chlorophenols which impart a distinct bad taste when present to the extent of as little as nine parts per million.

In the near future ammonium sulphate will be added to the incoming water out at the crib as it has been found after several extensive experiments that the presence of small amounts of ammonia in the water will prevent the formation of chlorophenols during chlorination.

Belgian Engineer Visits Institute

Last Wednesday afternoon, the Institute was honored with a visit by Professor Albert Coppens, who is head of the mechanical engineering department at the University of Louvain in Belgium. He has been touring the country, inspecting the educational systems of many of the large engineering schools.

Arriving from the Pacific Coast, the professor dropped in to the automotive laboratory and had an extensive talk with Professor Roesch. He admitted that he had become interested in Armour through Professor Gebhardt's book, "Steam Power Plants," which holds an esteemed position in the university library. Professor Coppens was also impressed by the fact that the Armour laboratories were actually superintended by the professor in charge, which was not the case in some of the schools he visited.

Peebles to Address A.S.M.E. Next Friday

All junior and senior Mechanicals are urged to attend the meeting of the Armour Branch of the American Society of Mechanical Engineers, to be held Friday, Oct. 6, at 10:30. Activities and programs for the coming semester will be discussed, for the president promises this year to be one of the best the society has ever had. The students will be addressed by Professor Peebles, as one of the speakers on the program.

Chess Club Welcomes Eight New Members

On Friday noon the Chess Club held its first meeting and welcomed eight new members.

Through the courtesy of the Truss Club the next meeting will be held at its rooms next Friday evening. A strenuous session of chess will follow the business meeting. All those who are interested but were unable to attend the first meeting are invited to play next Friday evening at 5 o'clock.

TAU BETA PI HAS PUBLIC PLEDGING AT FROSH SHAKE

Athletic Coaches Speak to New Students; Cider Served

MUSICAL CLUB PLAYS

Armour's new freshmen made their social debut last Wednesday as the annual Freshman Handshake gave them their first view of another side of life at Armour. A crowd of approximately five hundred including a large number of upper classmen, began to gather in the Mission at 7 o'clock, and by 7:30, when the lights went out, the crowd was virtually complete.

Lights Cause Trouble

The balky lights caused a little delay but no confusion and no abatement of the general good spirits. The fuse that blew was in the refrigeration lab and before it could be located one of the engineers had to be called from his home. In the meantime, the gas was lit and, as far as light was concerned, the date of the evening was carried back some forty years.

After almost an hour of getting acquainted the program began as Dean Heald introduced the master of ceremonies for the evening, Professor John Schommer. Nearly all of the athletic coaches and several well known professors were introduced in the course of the evening.

Tau Beta Pi Pledges

Admirably calculated to inspire the freshmen to greater efforts in their school life to come, a feature of the evening was the pledging of nine men, seven seniors and two juniors, to Tau Beta Pi, National Honorary Engineering fraternity. Professor Sholto M. Spears, faculty adviser, gave a short explanation of the purpose and history of Tau Beta Pi and described the qualities required for membership.

The men pledged to Tau Beta Pi were, of the senior class: R. A. Fleissner, H. Kreisman, N. H. Kuehn, S. G. Lehmann, E. G. Lundin, L. J. MacDonald, R. J. Plum, and of the junior class: J. J. Ahern and R. D. Arnobury.

Schommer Welcomes Freshmen

Previous to the Tau Beta Pi pledging, Professor Schommer made a speech of welcome, addressed in particular to the freshmen. He stressed the importance of a well balanced college program, one giving too much attention to no particular branch of college activities and some attention to all. Professor Schommer gave as a good division of time, 50 per cent for studies and 50 per cent for outside activities of all kinds, quoting the late William Rainey Harper, past president of the University of Chicago as having favored this percentage.

Athletic Coaches Speak

Professor Schommer then introduced the athletic coaches, creating a favorable atmosphere for their reception by telling the worst story he could think of about each. Coach Kraft, of the baseball and basketball teams, was introduced first, to be followed by A. A. Stagg, Jr., coach of the track team, "Sonny" Weissman of the boxing team and Professor Charles W. Leigh, mentor of the golf team. Finally, Professor Walter Hendricks, chairman of the Board of Publications and faculty adviser to the Armour Players, was introduced.

Each of the coaches seconded Professor Schommer's appeal for a well-rounded college life and added a request for candidates for his own team.

Music Clubs Participate

The musical clubs contributed an orchestra and its director O. Gordon Erickson, who led the crowd in the singing of Armour songs. The cheer leaders were also present to lend an athletic atmosphere.

The evening closed with the traditional cider and doughnuts, served in the luncheon room, and with a few final handshakes.