



Armour Tech News



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By Paul Schultz

THE LAST WEEK has again given us an excellent example of the strained relations between the United States and Japan. Military susceptibility, which seems more acute as well as more influential in Japan than in any other country, protests the plans of American aviation enterprise for establishing air lines over the Pacific. The Japanese press is making a great to-do about it and an anonymous authority is quoted as alleging that "this project can be regarded as military preparations in the guise of civilian enterprise." Color is given to this charge by the fact that the American navy department has given permits for the experimental planes to land on the three islands under its administration, Wake, Midway, and Guam.

OF COURSE, the American public knows the charges are unfounded, that in fact the plans for the air lines over the Pacific are only the natural expansion of our commercial aviation, which aspires to extend its services as widely as possible. Although lines have been opened to Central and South America, and it is expected there will soon be lines to Europe, Japan is the only one to conjure up the military bugaboo.

EVERY ONE REALIZES that aviation development has military potentialities everywhere. The only way to eliminate them is to eliminate aviation, or at least to place such restrictions upon it as would cripple its natural progress and deprive international commerce and communication of the great facilities possible through this form of rapid transport. That is a sacrifice we and other nations interested in aviation would not consent to make. There is not the slightest inclination in the government or people of the United States to pick a quarrel with Japan, but the distrust and unreasonable interpretations of normal American activities which Japanese leaders and the Japanese press indulge in are a deplorable factor in the relations of the two peoples, making friendly and mutually beneficial relations very difficult.

THERE IS no conflict between the major interests of Japan and the United States that would justify war, as was pointed out in a previous discussion. There is no inclination in the American government or nation toward war with Japan or any other country. On the contrary, there is on our side a full realization that war between Japan and United States would be inexcusable folly. Yet certainly the Japanese press and government are cultivating toward us a hostility which is gravely undermining the prospects of friendly relations and preparing the way for a collision sooner or later which can and should be avoided in the interest of both peoples and of the world.

Public Policy Classes to Hear Mr. H. T. Hill

Mr. Harvey T. Hill, executive vice-president of the Chicago Stock Exchange, will address the class in Public Policy (Social Science 402) on the operations and activities involved in the purchase and sale of securities. He will be assisted by Mr. Woodward, who is also connected with the exchange.

Mr. Hill, who is a graduate of the University of Pennsylvania, is an engineer by training. He has served the Illinois Chamber of Commerce as secretary.

A visit to the Chicago Stock Exchange to see its actual operation will later be arranged by the Public Policy class.

Hotchkiss Talks on Social Order

On Tuesday afternoon, March 19, President Hotchkiss delivered an address on "How We Get Along Together" at an assembly of the South Side Junior College. On Wednesday the same address was given at the Wright Junior College and at the Medill Junior College.

In these addresses Dr. Hotchkiss developed some of the difficulties which individuals and small groups find in getting along together in their every day activities, and applied the lesson to be drawn from these difficulties to social, industrial, national and international affairs.

He pointed out that the abandonment of the democratic method of getting along together in favor of turning the problem over to a dictator had come chiefly in countries in which democracy had never become thoroughly established. In spite of the obvious short-comings of democracy as practiced in the United States and of our many unsolved problems, President Hotchkiss maintained that only through improvements in the democratic method, rather than through the substitution of other methods, can solutions of these problems be found.

Senior Chemicals Visit Acid Plant

After wandering around the Calumet region for an hour, thirty-five senior chemicals, accompanied by Professors McCormack and Barr, found that the object of their search, the Central Chemical Company, was "right under their nose." The company's plant is located in Calumet City and manufactures sulfuric, nitric, and hydrochloric acids. Sulfuric acid is made by the chamber process, the daily output being 160 tons. The acid is shipped in steel tank cars; since it is concentrated it does not attack the steel. Hydrochloric acid is produced by the action of sulfuric acid on sodium chloride, and gives sodium sulfate as a by-product. Much of the success of the trip was due to the presence of a competent guide, who explained fully the various details of the processes.

Finding that they had time left after inspecting the central plant, the chemicals visited a nearby gelatin plant. The gelatin is made from pigskins which are washed, fat extracted, and processed. This plant also has a large capacity, shipping most of its product to the Royal Gelatin Co.

Regular Wednesday afternoon inspection trips are being planned for the future. Trips will be made to oil refineries, cornstarch plants, and soap factories.

Pi Tau Sigma Pledges Students at Smoker

Pi Tau Sigma, honorary mechanical engineering society, held a pledging in the Truss Club rooms last Thursday night. E. P. Auler, D. E. Howell, A. M. Lane, A. H. Rice, and F. L. Smith were the pledges. Each of them had been given a problem to be solved in a week's time.

W. W. Henning's talk on "Torsional Vibrations in Automobile Crankshafts" was chosen as the best talk given at the A. S. M. E. meetings this year. He will represent Armour at the national meeting of the A. S. M. E. in Chicago, April 29. Three cash awards of fifty, twenty-five, and ten dollars will be given for the best talks at this meeting.

Fischer Will Lecture on German Scientist

Next Thursday at 10:30 a. m. Professor Hanns Fischer will deliver a lecture on Robert Mayer before the German club in F. Mission. All students are invited to attend.

Robert Mayer was one of the first German scientists to determine the mechanical equivalent of heat.

Cycle Pictures to Be Taken in Gym

Athletic Groups Should Wear Uniforms

Group pictures will be taken for the 1935 Cycle on Wednesday, March 27, and Thursday, March 28. All pictures will be taken in the gymnasium, except those of the swimming team, which will be taken at the U. of C. pool. Men are requested to be dressed in regular suits or athletic award sweaters for class and organization pictures. For team groups and individual athletics pictures, men should wear regular uniforms. The schedule is as follows:

Wednesday, March 27th

9:00—Junior Class
10:00—A. A. S.
10:15—Sophomore Class
11:15—Freshman Class
1:15—A. S. M. E.
1:30—A. I. E. E.
1:45—W. S. E.
2:00—A. I. Ch. E.
2:15—F. P. E. S.
2:30—Wrestling Squad
2:45—Wrestling Team, Individuals
3:00—Wrestling Tournament Champs
3:15—Boxing Squad
3:30—Boxing Team, Individuals
3:45—Boxing Tournament Champs
4:45—Swimming Squad at U. of C.
5:00—Swimming Team, Individuals

Thursday, March 28th

9:00—Campus Club
9:15—Truss Club
9:30—Rifle Club
9:45—Fencing Club
10:00—Chess Club
10:15—Radio Club
10:30—Student Publications Advisory Committee
10:40—Armour Players
10:50—Senior Social Committee
11:00—Junior Social Committee
11:10—Fresh-Soph Social Committee
11:20—Honor A Society
11:30—Indoor Track Squad
11:45—Interclass Track Champs, Freshmen
12:00—Intramural Softball Champs, Jr. E. E.
12:15—Basketball Team, Individuals

Men are excused from their classes only at times they are to be in pictures. To avoid confusion, they are asked to be prompt, and to leave the gym when their groups have been photographed.

Spring Concert May Be Given Downtown

This year the Armour Tech Musical Clubs are contemplating a change of location for their annual Spring Concert. In the past, the Spring Concert has been held in the Armour Mission together with the Fraternity Sing. It is quite certain that the fraternities will consent to hold their Sing in the new hall, so that the traditional Fraternity Sing during Junior Week will not be lost.

To effect this change, however, it will be necessary to secure a pledge of support from a sufficient number of the students. In the past two years the Musical Clubs have assisted the publicity of Armour materially, and the students are now given an opportunity to show their appreciation.

The club officers are now planning to publicize this concert by announcements at class meetings, and through the aid of posters placed at strategic points.

Sophomores Pledged by Alpha Chi Sigma

Alpha Chi Sigma, professional chemical fraternity, announces the pledging on March 18 of the following men: J. Haas, F. Harman, J. Kahles, W. Schreiber, P. Schultz, B. Wilhelm.

The fraternity held a smoker on Wednesday, March 13 at the Beta Psi house which was well attended by the alumni members, several of whom are now doing research work at Armour, as well as the prospective pledges.

Scherger to Speak at Chicago W. S. E.

Dr. George L. Scherger will deliver an address at the next meeting of the Western Society of Engineers to be held at the Engineering Building on Thursday evening, March 28, at 7:30 p. m. Dr. Scherger will discuss the topic "What Is Wrong with the World?" To this meeting the students of the various engineering schools in the city, including Armour Institute, Northwestern University, Lewis Institute and Chicago Tech, are being specially invited. Regarding the forthcoming meeting Mr. Setterberg said, "It would be well worth while for all students to hear Dr. Scherger and especially should the Freshmen make the acquaintance of this man, who has done much towards developing the cultural side of man in the city of Chicago."

"Nomographs" Topic of Math Club's Talk

Equations that would ordinarily require four or more dimensional space for their representation were shown to be easily charted on two dimensional papers at the Friday meeting of the mathematics club when Mr. William W. Gorsline of Wright Junior College spoke on Nomographs.

Instead of using two coordinate axes to graph the values of the unknowns of an equation, nomography uses parallel or curved lines which, in general, arise from an axis perpendicular to the set. In reading values from this form of chart it is necessary only to lay a straight edge across corresponding values of the known variables, the unknown being found at the intersection with the last line.

Promotions Awarded Two Armour Alumni

Two Armour alumni, Leonard Peterson and Arnold Grasse, were selected to the post of secretary and assistant secretary of the Home Insurance Company of New York, it was announced by the board of directors recently.

Mr. Peterson started his career as inspector with the Michigan Inspection Bureau. In 1920 he joined the Home Insurance Company of New York and ten years later became divisional underwriter for the western division.

Mr. Grasse entered the business as special agent in the Chicago office in 1919.

Carpenter Will Talk to Mining Engineers

Professor A. H. Carpenter, member of the American Institute of Mining and Metallurgical Engineers, will address that organization on April 17 at the Engineers' Club.

This being a non-technical meeting, his topic will be "Historical Geology Applied to the Neighboring Planets." The planet Mars will be discussed in particular.

THIS WEEK

Tuesday, March 26 to
Monday, April 1

Tuesday

Meeting of Editorial Staff in News Office; 12:30.
Orchestra Practice; Assembly Hall; 5:00 P. M.

Thursday

German Club; F. Mission; 10:30 A. M.
Chess Club; 4th Floor Chapin; 12:20 P. M.
Glee Club; Assembly Hall; 5:00 P. M.

Dr. Scherger at W. S. E.; Engineering Bldg.; 7:30 P. M.

Friday

Society meetings; 10:30.
Wrestling; Wright Jr. Coll. at Armour; 3:30 P. M.
Entries for Softball Tourney accepted.

Seniors who wish class jewelry must have their orders in the hands of the committee by Friday, March 29. The last order will be sent in at that time.

All senior students who expect to graduate this June must see the Personnel officer before April 1.

All students who are interested in working on the Armour Cycle Advertising Staff get in touch with R. M. Paulsen, Cycle advertising manager. 20 per cent commission will be allowed on all ads.

Report Received on Physics Examination

According to a preliminary report on the mechanics section of the national physics examination given in seventy-eight colleges throughout the country last year, Armour students made a mean score of 27, as compared with the national mean of 18 and a national average among engineering colleges of 20.5.

Approximately 175 sophomores (and some present juniors) in the general physics course at Armour took the examination. The test in mechanics was of the objective type with fifty-two questions to be answered in an hour.

Of the seventy-eight colleges whose reports are in, there were only four schools which ranked higher than Armour.

These tests are experimental studies, but seem to have a real plan in marking the student.

Morozoff Elected to Lead Tech Rifle Club

New officers were elected at the meeting of the Armour Tech Rifle Club, last Wednesday, March 20. The men chosen were J. Morozoff, president; E. Auler, treasurer; and H. McDaniel, captain-manager. Election was practically unanimous. The men took office immediately after an informal meeting with the old officers.

J. H. De Boo, W. W. Henning, and M. J. Potter, the previous officers, spoke to the members, asking that they make use of the club room—for card games, informal gatherings and even suggested that the members eat their lunches there. New men will be needed for the team next year, as most of the present men will be graduating this June.

Location Chosen for Interhonorary Dance

In order to facilitate the participation of alumni, the interhonorary council has changed the date of the interhonorary dance to April 27. The date had been previously set for, and announced as Friday, April 26.

The change was made to Saturday with the belief that more alumni members would be able to be present on that night. The dance will be staged at the Allerton Hotel.

Twelve Men Pledged by Athletic Honorary

Twelve men were pledged by Honor "A" last Friday morning at 10:30 in the Tau Beta Pi rooms in reward for their excellent sports records.

Joseph Bartusek, Louis Biegler, Ken Carroll, William Concolino, Robert Esbensen, Eugene Heike, Robert Hella, Robert Merz, Daniel Moore, Donald Neal, Robert Schmidt, and Hermon Sumner were the athletes who took the pledge.

Chi Epsilon Pledges Four New Members

Last Tuesday night, Chi Epsilon, honorary civil engineering fraternity, pledged four men, John Galandak, John Larson, Theodore Ramotowski, and Gordon Zwissler. Pledging took place in the rooms of the Campus Club. The period of pledging will probably extend about one month before their initiation.

STUDENT AVERAGES PREPARED FOR NEW SYSTEM OF RATING

Juniors Lead All Classes With Average of 1.82

MACI LEADS SENIORS

Scholastic standings of the members of the senior, junior, sophomore, and freshman classes of the College of Engineering and Architecture for the first semester of the 1934-35 school year have been released by the Registrar's office.

The average of the entire undergraduate body, totaling 743 students for the semester, is 1.59.

The individual class averages are as follows:

The Senior Class 1.79
The Junior Class 1.82
The Sophomore Class 1.52
The Freshman Class 1.31

Raymond C. Maci, whose average is 2.85, leads the senior class. He has led the class of '35 for the last three years.

The student with the highest average in the junior class is Russell R. Johnson, who has led his class for three years. In the past semester, his average was 2.97.

William B. Graupner, with an average of 2.94, led the sophomore class. He also was highest in his freshman year.

In the freshman class there are five students who hold jointly the highest average which is 2.88. They are B. W. Gamson, W. M. Kiefer, W. R. Marshall, L. Parker, and E. F. Wagner.

Departments

(Freshman students not included)
Mechanical Engineering 1.65
Electrical Engineering 1.72
Civil Engineering 1.65
Chemical Engineering 1.74
Fire Protection Engineering 1.94
Architecture 1.42
Engineering Science 2.08

Honorary Fraternities

The following groups are arranged according to the seniority of their establishment at Armour Institute.

(Scholastic)

Tau Beta Pi 2.48
Pi Tau Sigma 2.31
Eta Kappa Nu 2.45
Chi Epsilon 2.33
Phi Lambda Upsilon 2.54
Salamander 2.45

(Non Scholastic)

Pi Nu Epsilon 1.80

Honor Society

Sphinx 2.32
(Continued on page 3)

Sophs Take Trip to See Museum

Perpetual motion may fool fifty thousand college students, but to an Armourite it is as simple as a cubic equation. Most of the sophomores who visited the physics museum of the University of Chicago found that a dark spot on the wall led to an inlet which drove the "delicately poised movement" seemingly moving forever without external propulsion.

Arranged by Professor Thompson, the inspection trip gave the physics students a chance to try the apparatus, much of which was exhibited at the Century of Progress. Among the most popular exhibits were the experiment that measured the mass of the earth and the replica of Professor Michelson's apparatus to measure the velocity of light. Another point at which the engineering training of the Armourites showed to advantage was in the Magdeburg vacuum hemispheres. Although two eight-horse teams were originally used to show that the bulbs could not be pulled apart, the mechanical training of the sophomores enabled them to show that one team and a brick wall would have resulted in the same force on the apparatus.