

A.A.S. Smoker Features Talk By J. Rodgers

How Armour Institute is becoming one of the foremost among architectural schools was explained by Professor J. B. Rodgers of the department of architecture to a group of budding architects who met in the Student Union lounge last Wednesday night. Said Professor Rodgers, "Armour is already creating interest and curiosity throughout the profession, and is beginning to be imitated in architectural education." He also spoke of Harvard and Princeton as following our routine to some degree.

Informal Meeting

The Arx students began gathering in the lounge about 6:30, and leisurely pulled up their chairs—and relaxed. Whenever someone felt like smoking, a cigarette or a pipe would emerge from his pocket, and soon a few puffs of smoke would be seen. Shortly after seven o'clock, Professor Rodgers was introduced. Refusing a stuffed chair for a wooden one, lest he be "too comfortable," and lighting his pipe after he was seated, he commenced to speak, beginning with Armour's status in general, and then went on to his particular field: construction.

Construction Important

"Architecture is building with art," he said, "and therefore a good architect is just as much a builder as he is a designer." He went on to say that this was the reason for the importance of construction in architectural education. However, most schools teach design and construction separately, with little emphasis on the connection between the two.

In contrast to this, according to Professor Rodgers, the main purpose behind our method of teaching is to induce the student to think about construction when he is designing. He also mentioned later, that emphasis is put largely on the details in many other schools while the tendency here is to bring out the principles. Another aim is to integrate the two phases of architecture during our course.

A.S.M.E.—

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on an engineering subject, and one on any subject. The judging will be based on picture composition, engineering representation, and general interest. Four awards and several honorable mentions will be made by H. J. Johnson of the Hawthorne Camera Club.

Number of Prizes

Eight prizes will be awarded in the essay contest for technical subjects, consisting of \$35, \$25, \$15 and three prizes of ten dollars each. A slide rule and a steel tape will be given to the seventh and eighth prize winners. Chairman of the judging committee for these papers is Mr. R. E. Turner, editor of "Power Plant Engineering."

As previously announced, the student's A.S.M.E. conference is to be held April 15 and 16 with Armour acting as host. Assisting Prof. Roesch are R. W. Scott, M. R. Balis, and John Catlin. Over 400 delegates from 16 midwestern colleges are expected.

BANQUET—

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A. Larson, vice-president of the Association, who is in charge of all arrangements, Clay DeMent, Fred DeMoney, Roman T. Mankus, and Rocco DeStefano. Cooperating with these men are Dean Tibbals and Professor Schommer, in the role of faculty advisors.

Schommer Toastmaster

Mr. Schommer is to be the toastmaster of the evening and has done a great deal in securing a speaker for the occasion. In this he has been so successful that Mr. Tappen Gregory has been procured. Mr. Gregory is a lawyer, author, and naturalist, and, with his vital background, is expected to deliver a very interesting address.

After a lively evening at the banquet tables, the evening will be culminated by a tour of the Institute. This will give the fathers a better idea of what Armour is and has. To make the affair a success, the date was chosen so that the Open House exhibits might be seen. All concerned with the arrangements feel that they have just cause to be optimistic about it, and to expect a record turn-out.

Math Professors To Present Many Papers at A.S.M.

Nine of a total of fifty-nine papers will be delivered by members of the staff of the department of mathematics of Armour Institute of Technology on April 12-13, at the three hundred sixty-eighth regular meeting of the American Mathematical Society at the University of Chicago. On account of the desire of the mathematics faculty, to be present at this important gathering, all day-school classes in mathematics will be excused for this Friday only.

Complex Subjects

Nine papers, to be delivered before the society by Armour men are: Scalar Extensions of Algebra with Exponent Equal to Index, by Dr. Sam Perlis; A Quotient Ring over the Ring of Bounded Operators in Hilbert Space I, by Professor John W. Calkin; Regions and their "Patterns" in Conformal Mapping, by Mr. Hugh J. Miser; and The Minimal Numbers of Binary Forms, by Professor Rufus Oldenburger. To be presented to the society but not read are five papers: A Generalization of a Theorem of Weyl, by Professor Calkin; Functions of Several Variables and Absolute Continuity, also by Professor Calkin; On a Class of Non-negative Matrices, by Professor Oldenburger; Polynomials in Several Variables, also by Professor Oldenburger; and Sufficient Conditions that Polynomials in Several Variables be Positive, by Dr. Irwin E. Parlin.

CAMARAS—

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the wire will retain its magnetization quite accurately for many years; and the time, labor, and space required to create and store recorded programs has been considerably lessened.

Award Presented

Another highlight of A.I.E.E. proceedings at Armour during the past two weeks was the award of a year's paid membership to Al Veras, President of Armour branch. This is awarded each year to the student deemed by the branch members to be most outstanding in scholarship and in service to the organization.

Komarewsky Talks About Catalysis at Graduate Lecture

"Catalysis" was the subject of Professor Vasili I. Komarewsky's talk last Friday morning, in the Electrical lecture room, the third lecture in the spring graduate series.

Tracing the history of processing of oils to obtain gasoline, Professor Komarewsky explained that the original process of obtaining oils was distillation. By means of distillation, one could extract 20 to 35 percent gasoline from crude oil, at an octane rating of about 50. Then came oil cracking by which as much as 50 percent crude oil could be converted to gasoline of a 70 octane quality.

Improved Methods

Not satisfied with this, Ipatieff, famous Russian chemist and expert on hydrocarbons, together with Professor Komarewsky and others were brought to this country by Universal Oil Products to improve the process of refining oil by chemical methods. By using catalytic agents, beginning with sulfuric acid, then using phosphoric acid, and graduating finally to more expensive catalysts such as platinum and palladium, they were able to convert finally practically 100 per cent crude oil to 120 octane gasoline.

Cracking Defined

The octane rating of a gasoline is defined in terms of the knock properties of the gasoline. The interest in high octane gasoline has been due primarily to the demands for it by the aviation industries. By a further refinement of their technique, the chemists hope to convert a greater percentage of crude oil into gasolines of even higher octane ratings.

The gasoline now obtained consists of various grades, only some of which have octane number 120. Refining oil processes consist essentially of the following steps after cracking: 1) polymerization, a process whereby the number of atoms of each kind in a molecule is increased by an integral factor; thus when one goes from a molecule CH to 2CH and 3CH; and 2) Dehydrogenation, whereby hydrogen atoms are removed from molecules and hydrogenation where hydrogen atoms are added to molecules.

POWER CONFERENCE—

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The afternoon will feature an interesting inspection trip to the Electro-Motive Corporation, subsidiary of General Motors, at LaGrange, Illinois. The Conference will be climaxed by a smoker at 8:00 p.m. Wednesday which will feature motion pictures of the Anarectic Snow Cruiser. Dr. Poulter, director of the Research Foundation of Armour Institute, who accompanied the cruiser to the South Pole, will speak if it is possible for him to attend.

A large attendance is expected at the conference from the industries which are concerned with power production or transmission. Students and faculty of engineering schools will also be present.

To encourage attendance by the students of Armour Institute admission will be granted to sessions and discussion groups without the presentation of a registration fee unless the men desire copies of the printed proceedings. Realizing the importance of the conference to seniors, the department heads have arranged for classes to be adjourned to permit attendance as follows: senior mechanicals, Tuesday, all day and Wednesday all morning; senior electricals, Tuesday, all afternoon; senior chemicals, Wednesday, all morning; senior civils, Wednesday all morning. The senior fire protects and science students will not have any classes adjourned, but students especially interested may attend by individual arrangement with instructors.

CO-OP NEWS—

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finding it very interesting. Most of the credit for making these Co-ops sit up and listen attentively is due to Prof. Larkin who is an excellent speaker. Unfortunately, Prof. Larkin was only filling in temporarily for Dr. Davy who returned from the east at the end of the week. The first session with Dr. Davy ended with the class well satisfied. There seems to be no possibility of the class falling asleep in this course (a peculiar characteristic of most non-engineering subjects. Certainly we have need of more courses in economics and English than we now get.

This spring weather has a devastating effect on the fellows. As a result, the honorary somnolent fraternity, Gotta Kappa Snooz, is pledging more candidates than at any other time in the year. We can only mention a few of the more outstanding pledges, being pressed for space. Bert Nelson 5B, Boardman, Haneman, Swanson, Cavanaugh, Reider 4B'sc. Of course, Dan Stone 4B is still maintaining his championship form and it is considered probable that he will soon displace Walter Hutchings 5B as president.

Remarks from the first baseball practice indicate that the boys need plenty of practice and liniment...

Dr. Tibbals Presides At Meeting of Deans Conducted at Lewis

Last Saturday, at Lewis Institute, the Fifth Annual Meeting of the Illinois Association of Deans and Advisers of College Men was held. Attending the meeting were about fifty men representing the leading Colleges and Universities in the state.

A full day's program was presented for the deans. In the morning Doctor J. A. Melrose, professor of psychology at James Milliken University presented a paper on "Factual Approach to Counseling."

Dean Speaks

After a luncheon, the program continued with speeches by W. E. Lyman, Director in Personal Adjustment at Northwestern, and Dean Fred Turner of the University of Illinois. The meeting, which had started at 10 in the morning, was adjourned late in afternoon.

Dean C. A. Tibbals of Armour Institute of Technology presided at the meeting as president of the association. Other officers of the association are Dean C. L. Miller of James Milliken University, secretary, and Dean Emerson of Wheaton College, is vice president of the organization.

Besides Dean Tibbals several other members of the Armour Personnel Department attended the meeting. Included in this group were several of the freshmen advisors.

Potter To Speak To Symposium On Electronic Theory

Friday, at 10:10 A.M. in room 114, Chapin Hall, Prof. J. G. Potter will present a talk on the introduction to the theory of electronic work functions and an illustrated description of some of the methods and techniques employed in them. He will especially emphasize experimental investigation of variations with temperature in high vacuum.

Prof. M. B. Reed, recently delivered a talk to the Seminar on Research in Electricity and Electronics on "What Can Be Done With Matrices in Electric Circuit Analysis."

Prof. Reed first discussed the five fundamental electrical laws and then pointed out how matrices arise in the study of electricity. Algebraic matrices are shorthand symbols for systems of linear equations. Matrices are used wherever a complex network may occur, and it takes out the cut and try method of solving network systems.

PHOTO RECORDS—

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cards. This provides an accurate record, since if a man was there he will be in the picture. It is expected that this will abolish a great deal of friction over this matter.

STEAM SHOVEL—

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car, etc., etc., he decided to go back . . . nuts . . . Woehrl's version is sorta different) . . . in that connection what soph spent a Saturday afternoon helping Elly with descript? . . .

Saltzman's latest addition to the famous last word series . . . I came down to see Mr. Krebbiel, didn't I Francis . . . Oh yeah! . . . the A.A.S. meeting saw eight dozen big (and heavy) doughnuts disappear . . . Schneider principal offender . . . Gittelson trying to find out how to meet the Art School gal's from Pehta, as if he would know, but as Dodge would say "Why" . . .

D. W. Hayes 4B has been taking vocal music lessons for some time now at an exorbitant fee. So don't be surprised when D. W. invites you to a recital at some future date. Remember, we warned you . . . The advanced calculus course is now half over. The fellows will resume their integration, etc., in October . . . Carl Swanson 4B would like to see his engagement announced in this column similar to announcements made here last term, but he lacks the young lady . . . B. J. Nigrelli and W. S. Hutchings, 5A's, were pledged to Honor A Friday night. Congratulations!

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At over a million places where cigarettes are sold you can see these clean white Chesterfield packages going into more pockets and more handbags every day. All over the country smokers are finding out you can't buy a better cigarette.

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