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## CAMPUS NOTES

### FIELD PUBLISHES SECOND BOOK

The subject of architectural drawing has been considered in a great many books but it has remained for one of our own faculty members to present it with a new object in view.

Heretofore architectural drawing books have been for the most part just "drawing" books and unfortunately "copy" books.

Professor Wooster Bard Field of the department of engineering drawing is the author of a new and distinctive treatment of the subject. He feels that even in a rather elementary presentation of the subject the student may be brought to a realization of the fuller meaning of the term "architecture," and he writes with this in view throughout the book.

Instead of giving the student drawings to copy, the book presents various material in a suggestive way and accompanies the suggestion with ample help for carrying it out.

The text has been delightfully illustrated by many pencil sketches which have already attracted much attention.

The book is entitled *An Introduction to Architectural Drawing* and is being prepared by the McGraw-Hill Book Company who published Professor Field's former book, a more complete treatment of the same subject.

### INDUSTRIAL ENGINEERING

A WELDING CONFERENCE is to be held at this University February 25 and 26 for the manufacturers and users of welding equipment. At this meeting the industrial applications of welding are to be stressed. The program will consist of papers and live demonstrations on the latest developments in welding. These are to be contributed by such companies as Hobart, Troy, General Electric, Westinghouse, Lincoln, Linde Air Products, Air Reducing Sales, etc. There will also be motion pictures on the various points of interest in welding. This lecture is open to the public and no admission will be charged.

The February dinner meeting of the Society of Student Industrial Engineers was held in the Neil Gables Restaurant on Thursday evening, February 4. Mr. F. A. Wirt, Advertising Manager of the J. I. Case Company, Racine, Wisconsin, was the speaker of the evening.

Mr. Wirt discussed the qualifications of a good letter of application. He stated that not only should the applicant's experience, personal qualifications, affiliations, and scholastic records be given, but also a paragraph stating why those certain qualifications are assets to the Company to which application is being made.

Mr. Wirt also told of some of the Case Company's training methods for new employees.

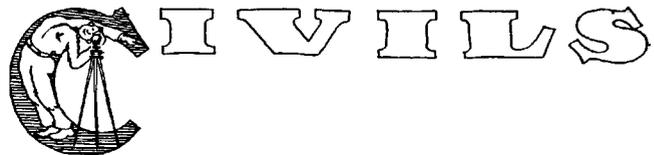
As an item of general interest, some still film of various applications of power farming machinery and the relation of that application to farm profit was shown.

S. S. I. E.

INDUSTRIAL engineers are anticipating an inspection trip to Cincinnati between the Winter and Spring Quarters. At least seven plants will be visited.

February 19 in Commerce Auditorium the Industrial Engineers will take the affirmative side of the argument—"Resolved, That the Volstead Act Should Be Repealed." The debaters will be Gibboney, Newell, and Van Osdall. On the negative side the electrical engineers will endeavor to prove the merits of prohibition.

The I. E. basketball team is standing high in College League No. 2. They have practically completed plans for celebration of the championship.



THE Student Chapter of the A.S.C.E. was organized in 1923 under the auspices of the parent society. The purpose of the organization is to acquire a knowledge of the most approved methods of civil engineering procedure, collect material of value to the engineering student, and to promote a social spirit among the students. Joint meetings are held occasionally with the Central Ohio Section whereby the students have ample opportunity to meet their professors, leading members of the profession, and other students in the Department of Civil Engineering. Dinner meetings are held once a month to which some prominent engineer is invited to address the society.

Approximately one hundred persons attended the lecture given by Mr. Ole Singstad, chief engineer and superintendent of the Holland Tunnel connecting Jersey City and New York City under the Hudson River. The lecture was given November 23, 1931, in Pomerene Hall. Mr. Singstad spoke at some length concerning different phases of the operation and construction of the Holland Tunnel and was aided in his lecture by some very good lantern slides.

Mr. Singstad said that he was the third chief engineer of the project, the other two, Mr. Holland and Mr. Freeman, having died while the project was still under construction.

The driving of the tunnels by means of shields underneath the bed of the Hudson River and the sinking of the seven shafts was accomplished by means of compressed air which balanced the pressures on the outside

of these structures and held out the river water, which otherwise would have seeped down through the river mud or silt and penetrated the working chambers of the shaft caissons and tunnel headings. The roadway in each tube, accommodating two lines of traffic, is of granite block with granite tubes. It is estimated that an average of 1900 motor vehicles can pass through each tube per hour. It took approximately five years to complete the construction of the project, and the total cost of the tunnel was slightly over \$48,000,000.

On Tuesday evening, January 26, approximately 150 attended the illustrated lecture on the "Hoover Dam and the Colorado River Aqueduct" given by Franklin Thomas, professor of civil engineering at the California Institute of Technology at Pasadena. Construction on the project has just been started with an estimated cost of \$220,000,000. This is the foremost engineering project in America at present.

Samuel S. Wyer, consulting engineer of Columbus and former graduate of Ohio State, lectures January 12 on "Startling Facts Concerning This Present Economic Muddle." This lecture on a non-engineering subject proved popular, for Mr. Wyer is an exceptional speaker.

Mr. C. P. Hoover, consulting engineer and Columbus Water Works engineer, addressed the chapter October 26 last on "Water Purification." The lecture was ably delivered and very interesting.

Other speakers of the year include Mr. Charles Duncan and Mr. John McElroy, seniors of the class of 1932. Seniors give short talks at the beginning of each meeting partly for the experience in public speaking. The talks thus far have been well prepared and delivered.

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#### E.E. HONORS LIST

Based on a point ratio of 3.0 or above during the last quarter of residence the following are the members of the junior and senior electrical engineering classes who, because of the excellence of their work during the autumn quarter of 1931, have been placed on the honors list of the Department of Electrical Engineering:

*Seniors*—Darwin S. Renner, Edward L. Dryer, William P. Mueller, Chester M. Brinsley, Francis A. Liedel, and Vincent D. Parrish.

*Juniors*—Arthur E. Newlon, Arthur J. Ross, Gilbert R. Kuhner, Paul M. Fisher, and James L. Lovelace.

Honor men receive the following special considerations:

- (a) Special freedom in making substitutions when approved by the Department of Electrical Engineering;
- (b) At the discretion of the student, waiving the problem work requirement in courses 701 and 702. This may be done only upon petition made at the beginning of the quarter;
- (c) Permission, on petition, to carry individual elective reading courses or similar laboratory courses;
- (d) Permission, on petition, to carry certain courses *in absentia*;
- (e) Special leeway, on petition, to carry extra credit hours;
- (f) Location on this group will be given weight in the selection of student assistants.

From time to time other special considerations may be extended to the members of this group.

#### RADIO CLUB

Because of a recent burglary the Ohio State Radio Club finds itself rather short of equipment. Part of the stolen equipment has already been replaced. It is planned to replace the missing equipment by apparatus of more modern and efficient design. Mr. G. E. Branch, E.E. 3, has done quite a little experimental work on a five-meter transmitter. It was noticed that when flies lit on the antennae of this ultra-high-frequency transmitter, they immediately wilted. The antenna of this transmitter is less than six feet long.

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#### A.I.E.E.

Meetings of the A.I.E.E. are being held on Thursday afternoons rather than in the evenings as before. Attendance has greatly increased since this change. Charles Sloane is acting chairman.

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#### NEW PROF IN E.E. DEPARTMENT

A recent addition to the faculty of the department of Electrical Engineering was Professor Harold W. Bibber. Professor Bibber was previously connected with the General Electric Co. He is a graduate of M.I.T. and is a transmission engineer. While with the General Electric Company he spent several years in Japan. Mr. Bibber has an accomplishment which few engineers can boast of, he speaks five languages fluently: French, German, Spanish, Italian, and Japanese. We welcome Professor Bibber to the College of Engineering and hope his work and contacts here may be mutually profitable and enjoyable.

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#### AMERICAN CERAMIC SOCIETY

THE Ohio State University Student Branch of the American Ceramic Society held its regular monthly meeting on Tuesday night, January 19, 1932, at 7:30 p. m., in Lord Hall. Dr. France of the Chemistry Department of Ohio State University, the speaker for the evening, gave an interesting review of a paper on the "Setting of Plaster of Paris." A business meeting followed the talk.

A progress report of Keramos' investigation of commercial feldspars, which practically completes this work, will be submitted to the Feldspar Grinders' Institute and the Whitewares Division of the American Ceramic Society at the Annual Convention in Baltimore on February 8-12, 1932.

The investigation of the system Potash-Soda-Lime Feldspars which is being conducted by J. A. Martz, graduate student in Ceramic Engineering, will be presented as a progress report at the annual convention.

All work to date on the Feldspar, Kaolin, Quartz system, which has been in progress for several years in the Ceramic Engineering Department at Ohio State University, will be reported at the annual convention of

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the American Ceramic Society by M. H. Waldschmidt who has charge of this work at present.

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GRADUATE STUDENTS IN CERAMICS

THE following men registered in the Graduate School are majoring in Ceramic Engineering: Joseph H. Chilcote, C. L. Evans, Paul Z. Herold, Paul R. Jones, J. A. March, C. H. Rapp, H. J. Rolke, George H. Spencer-Strong, M. H. Waldschmidt, F. J. Williams.

The generator for the 500-watt transmitter has been repaired and activities have been resumed at the Radio Club, station W8LT. Considerable work has been done in experimenting and operating on the latest band opened for amateurs—the 56 megacycle or five-meter channel.

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A. I. M. & M. E.

AT A meeting January 26, of the student branch of the American Institute of Mining and Metallurgical Engineers, Robert Blackburne, a student in the Univer-

sity, showed motion pictures of his trip through Canada. The trip was an inspection trip, part of his course as a Mining Engineer, of mines, mills, and other points of interest in Canada.

The Metallurgy department is represented in intramural bowling by Blanchard, Low, Dick, Dougan, and Rogers.

**GLIDER CLUB**

**D**URING the last month the Glider Club has held two meetings, both in the nature of reorganization meetings. Policies for this quarter and the spring quarter were determined and an invitation to new members was extended. During the Christmas vacation a practically new Waco glider was purchased (at a low figure) out of a fund established for the purpose. At the present time Flight Leaders in the club are making flights and landings in preparation for third-class glider pilots' licenses. Two co-eds, Barbara Baker and Iva Millard, are active members. Both are enthusiastic student pilots. New members are taught to handle the plane when it is being towed on the ground before being allowed to go aloft. The towing is done by a Peerless eight, property of the club, attached to the glider with a 300-ft. rope. Two experienced members drive the car, one steering, and the other, watching the glider, handles the throttle and brake. The flying is done at Columbus Airport, Sullivant Avenue. Anyone interested in this thrilling new sport is invited to join. Fees are: \$10 initiation, and \$5 a quarter or \$25 for the entire year.

**A. I. CH. E.**

**T**HE Student Branch of the American Institute of Chemical Engineers held a dinner January 28 at the Village restaurant. The thirty-one students present heard William T. Walton speak on "Personal Experiences of a Chemical Engineer in an Explosive Industry." Mr. Walton, now a graduate student at Ohio State, has spent five years with the Hercules Powder Co. He told several amusing incidents in the explosive industry after reviewing the manufacture of higher explosives. A business meeting of the society preceded the speaker.

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