

**The Knowledge Bank at The Ohio State University**  
**Ohio State Engineer**

**Title:** Campus Notes

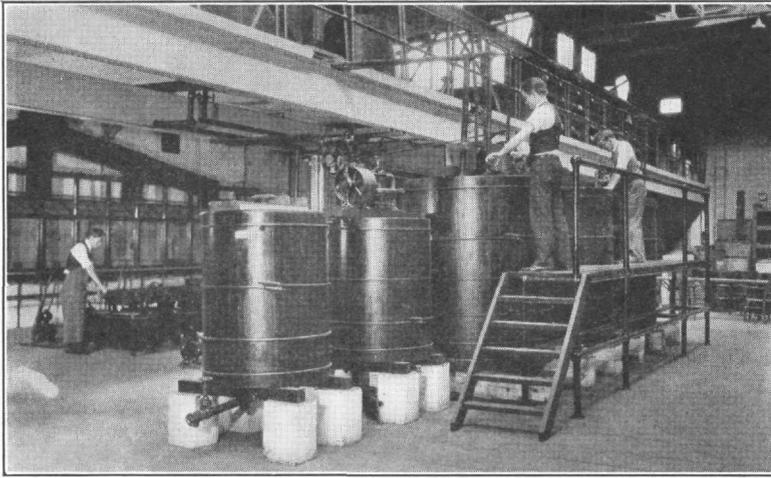
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MIXING TANKS—CHEMICAL ENGINEERING LABORATORY

## CAMPUS NOTES



### DINNER FOR PROFESSOR KNIGHT

Professor William A. Knight, Professor Emeritus in the Department of Industrial Engineering, will be honored by a banquet on Tuesday, June 7, at 6:30 P. M. The banquet, which will honor Prof. Knight's service of forty years on the campus, will be given at the Ye Olde Chase Tavern in Worthington.

Coming to the University in the fall of 1893, after thirteen years' experience in shops of Columbus, Professor Knight has witnessed most of the changes and developments in the College of Engineering. It was also in 1893 that the Department of Industrial Arts was established.

Professor Knight started his work in the Industrial Arts Department handicapped by a lack of a high-school education. He studied algebra by himself, then took courses in elementary trigonometry and plane geometry at the University, followed by solid geometry studied outside of school. After this preparation he studied French, Chemistry, and Physics, and finally took his degree in Mechanical Engineering in 1900.

During the period that Professor Knight has been associated with the College of Engineering, it has undergone some startling changes. When he came here, the Industrial Arts Department was combined with the Manual Training Department, and both were part of the Department of Mechanical Engineering. In 1915, the manual training was split off and made a part of the College of Education. However, it was not until 1926 that the Industrial Engineering Department was fully separated from that of Mechanical Engineering. During the World War, when the University was temporarily reorganized, Professor Knight had charge of two departments: gunnery and aviation.

Professor Knight has done a great deal of research into the subject of cutting tools, and has published his results in a number of articles. The better known of these are: "Cutting Speeds and Feeds," published in the *American Machinist*, Sept. 7, 1916; "Laps and Lapp-

ing," which was read before the American Society of Mechanical Engineers at Buffalo in 1915, and later published as a University bulletin; "Lathe Tools for Finishing Cuts," also published in the *American Machinist*; and "Setting-angles for Milling Angular Cutters," published in *Machinery*, in 1908.

As a result of his forty years' experience with students in the department, Professor Knight states the purpose of the department, which is the same today as it was when it was first organized, in the following words:

"It is the purpose of the department to instil in the student an ideal of workmanship so that he may be able to tell the difference between good and bad work and to judge machinery; to give the student a familiarity with the metals and the materials of engineering; and to acquaint him with the nomenclature of the shops."

At the April 12 meeting of the Student Branch of the American Ceramic Society Professor Watts presented his paper entitled, "Contributions of Pottery to Civilization," to the Student Branch. This paper was a radio talk given by Professor Watts, April 13, over station WEAO.

In this talk he told of the beginnings of ceramics in Egypt, Persia, and China. Professor Watts also traced the development of civilization and pottery of each country (the contribution each made to Ceramics and the pottery industry) from about 3000 B.C. to the present time.

A short business meeting was held and the Society voted unanimously to support an open house on Engineers' Day.

Professor F. C. Caldwell, of the department of electrical engineering, Ohio State University, is one of the associate editors of a 900-page "General Engineering Handbook" just published by the McGraw-Hill Book Co. Assistant Professor C. E. O'Rourke, of Cornell University, was editor-in-chief. The book is a compilation of fundamental engineering data.

## AMERICAN SOCIETY OF CIVIL ENGINEERS

Approximately one hundred fifty persons attended the A.S.C.E. student branch monthly meeting April 6 to hear Mr. Harrison P. Eddy, nationally known consulting engineer.

Mr. Eddy spoke on "The Work of the Sanitary Engineer" and divided the field into five main classes: water supply and purification, sewage, drainage and disposal of sewage and industrial waste; refuse collection and disposal; eradication of mosquitoes and other vermin; and air hygiene. He showed that a sanitary engineer may at times have to be a botanist, chemist, electrician, mechanical engineer, bacteriologist, geologist, and legal adviser. Mr. Eddy's lecture proved to be particularly illuminating to Civil Engineering students as they all have had or will have introductory courses in Water Supply and Sewage.

Mr. Flood, an assistant engineer, and Mr. Fales, a partner, accompanied Mr. Eddy and added a few remarks after the main lecture.

A high spot in the program was a twenty-minute talk given by S. C. Martin, C.E., '31, on "Bow-legged Engineers."

H. B. Foster, for some time member of the technical staff operating the Experiment Station, has transferred to the National Fireproofing Co. He is located in Hagenville, Pa., at one of the company's laboratories.

## MECHANICAL ENGINEERING

On May 13, Engineers' Day, the Society of Automotive Engineers will have H. S. Horning, of the Waukesla Motor Corp., speak and demonstrate the C. F. R. engine. A banquet will be held by the society in the evening, with the same speaker giving a short talk.

The Cleveland and Dayton branches of the students S. A. E. have been invited to the meeting and banquet. It is of interest to know that the Ohio chapter was the first branch of this organization founded and the constitution drawn up here has been accepted nationally.

The Student Branch of the Society of Automotive Engineers held one of the most successful meetings of the year on April 22. The meeting was well attended by both student members and faculty guests. Talks on the technical advancement in automobile design were given by representatives of the Plymouth, Chevrolet and Ford agencies. The new Plymouth and Chevrolet models were demonstrated and the new model Ford will be shown before the next meeting of the group.

The general trend in automobile body design is toward longer wheel base and modified streamlining of bodies, and engines using smaller but higher velocity pistons.

Tests are being made to determine the coefficient of friction between various types of road surfaces and numerous designs of auto tires with the cooperation of the Highway Department of Ohio and several students working on theses. It is hoped that the results of these tests will lead toward the "non-skid" highway.

(Continued on Page 19)

## WELCOME ENGINEERS



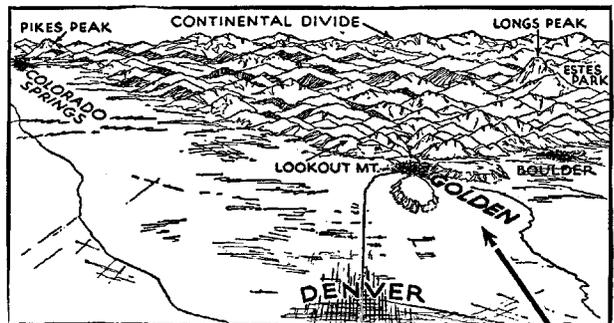
Wholesome Foods at new Reduced Prices.  
Service any time during the day from 6 a. m. to  
8 p. m. We especially invite you to try our  
Sunday Dinners.



## Baker's Cafeteria

UN-0287

1597 N. High Street



## Engineering Summer School of the Rockies

Students of Engineering who wish to make up work or secure additional credit during the summer are offered an unusual opportunity to combine work and recreation in Golden, the Gateway of the Rockies.

**July 11 to August 26, 1932**

For detailed announcement of courses, write to the Registrar for Bulletin S-2.

**Colorado School of Mines**  
Golden, Colorado

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#### MINE ENGINEERING

J. H. O'Connor, w'24, formerly engineer in charge of construction of railroads in Persia is now located in Argentina with the Electric Bond Co.

F. G. Parris, student of petroleum engineering in '28 and '29, is now associated with the local branch of the Vulcan Gas Co. His offices are located in the A. I. U. building.

The annual inspection trip of the mine engineering department will not be as extensive as usual, due to the lack of funds, this year. The tentative arrangement provides for a trip through Southern Ohio and West Virginia. The inspection party will leave shortly after the close of the Spring Quarter.

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#### METALLURGY

Wm. Black recently visited his former instructors and friends of the University during his vacation. He is employed at present by the American Rolling Mills Corp.

Dr. G. A. Bole has returned from a four weeks' rest at Battle Creek, Mich.

Professor Nold's secretary, Miss Service, exultingly reports losing eight pounds of corpulence.

The college careers of seven Metallurgical Engineers terminated with the winter quarter, Friday, March 19. Those graduating are: G. R. Worthen, J. M. Ruckman, Austin W. Secay, L. L. Luxon, Geo. S. Stafford, Cecil VanGundy, James J. Blair.

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"I thought your secretary was a blonde."

"She was, but she's gone off the Gold Standard."

—*Passing Show.*

## CAMPUS NOTES

*(Continued from Page 13)*

## ELECTRICAL ENGINEERING

This spring quarter the new equipment and laboratories in the Electrical Engineering Department, Robinson Laboratory, will be used in the courses offered there. The Department has expended \$70,000 in building improvements and equipment.

A new concrete floor, transmission conduits and a battery room located beneath the floor have been added. The battery circuits are all remotely controlled from a centralized distribution board. All local battery and generator power is controlled from one section and all external power circuits are controlled from another. Red indicator lights designate the energized circuits and are automatically operated.

The old battery room has been converted into a calibration room and the old calibration room is now used as a research laboratory.

A four horsepower dynamotor with individual control panel for experimental work, six motor generators, synchronous converter and an experimental induction motor which has all the field leads connected to an external terminal board, have been added, also one six element oscillograph, three smaller oscillographs and a Rosa curve tracer for analyzing alternating current characteristics. One of the interesting devices recently installed is the cathode ray oscillograph that is capable of recording phenomena occurring in a fraction of a micro-second. With this device, reactions that are practically instantaneous can be recorded and studied.

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