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# BIENNIAL ENGINEERS DAY

(Sponsored by Engineers Council)



## *Program*

Friday, May 13th

1:00 to 3:30 P.M.

Departmental Open House, exhibits, demonstrations.

3:30 to 4:00 P.M.

Parade. Formation east of Robinson Laboratory at 3:15 p. m.

4:00 to 10:00 P.M.

Departmental Open House, exhibits, demonstrations.

6:00 P.M.

Banquet—Society of Automotive Engineers, Faculty Club.

Speaker—A. J. Scaife of the White Motor Co. and National  
President of the S. A. E.

Saturday, May 14th

9:00 to 12:00 P.M.

Annual Engineers' Ball at the Armory.

Jack McAndrews and his Scarlet Mask Band.

10:00 P.M.

Award of parade and departmental exhibit trophies at the Engineers'  
Ball.

# Engineers Day Exhibits

THE shops and laboratories of the various departments will be open for public inspection. Interesting exhibits will be on display and demonstrations of an interesting educational nature will be given in each department.

## ARCHITECTURE

An exhibit of architectural drawings will be given in the corridor of the first floor of Brown Hall.

## CERAMIC DEPARTMENT

A display of dinner ware and other ceramic products will be among the exhibits of the Ceramic Department. A miniature clay plant will also be in operation in Lord Hall.

## CHEMICAL ENGINEERING DEPARTMENT

A column still and multi-stage evaporator will be among the exhibits of this department. These two pieces of apparatus will be in continuous operation during the day. There will also be several demonstrations and exhibits in the Chemical Engineering laboratories located in the rear of the Chemistry Building.

## CIVIL ENGINEERING

A continuous demonstration of the plastic flow of concrete will be given by Professor J. R. Shank in the Engineering Experiment Station. An exhibition and explanation of the giant testing machines of the structural engineering branch has been arranged for at the Experiment Station. This demonstration will be in charge of Professor G. E. Large, who will also explain the concrete testing laboratory equipment. On one of the smaller testing machines in the Experiment Station, Mr. Arthur Dierker will demonstrate the effect of stretching on steel.

A demonstration showing methods of flood control will be given at the southeast corner of the top floor of the Experiment Station by Mr. Lasley Lee, U. S. District Hydraulic Engineer for Ohio.

The State's laboratory for testing highway construction materials will be open for inspection and will be explained by attendants under the direction of Robert Litchiser, State Highway Department Testing Engineer. The laboratory is located in the Experiment Station.

An interesting exhibition of the instruments used in making various types of surveys will be on display in the east corridor of Brown Hall.

Many other exhibits, demonstrations, and displays have been planned, and Professor Sherman has announced that members of the Department of Civil Engineering will be on duty throughout the day to explain them to visitors.

## ELECTRICAL ENGINEERING

A number of interesting demonstrations will be given. Among them are: stroboscopic display, reversing motor, out-away motor, rotating field motor, water pail forge, floating magnet, thyratron automatic regulator, induction motor control, Rosa curve tracer, cathode ray oscillograph, oscillographs of radio tube characteristics, oscillog-

scope, speech inverter, field strength measurements of broadcasting stations, short-wave demonstration, transformer and tube comparitor, cable load characteristics, Heaviside layer demonstration, television, photo-electric traffic control, audible light and visible sound, Hertzian antenna, wave form, light demonstrations, photo-electric cell, radio tube display, meter display, and others. All of these will be given in the Electrical Engineering and communication laboratories.

## INDUSTRIAL ENGINEERING

Demonstrations will be given in the foundry, machine shop, and welding room, located in the Industrial Engineering Building. In the evening, the metal will be poured in the foundry.

## METALLURGY DEPARTMENT

The metallurgists will have several interesting exhibits in Lord Hall.

## MECHANICAL DEPARTMENT

A VERY complete program for the day and evening has been planned by the Mechanical Engineering Department. Steam turbines, hydraulic turbines, centrifugal pumps, steam engines of all types, and air compressors will be demonstrated in the steam lab in Robinson Laboratory. In the boiler room, fuel and smoke analysis tests will be made. There will be a series of interesting wind tunnel demonstrations and a Diesel engine demonstration in the southwest corner of Robinson Laboratory. Many other interesting demonstrations will be given throughout the day.

The Society of Automotive Engineers has arranged to have Mr. W. T. Sinslow of the Waukesha Motor Co. give demonstrations and lectures on the Cooperative Fuel Research Engine. The lectures and demonstrations will be given at one, two-thirty, eight, and nine-thirty p. m.

At the sixty-thirty banquet given by the S.A.E., Mr. A. J. Scaife, National President of the S.A.E., will be the speaker.

## UNIVERSITY POWER PLANT

This campus has one of the most modern and efficient power plants to be found at any university in the country. The heat and electric power for all the buildings on the campus is produced in this plant. Several new and ultra modern generating units have been added this winter to take care of the increased load caused by several new buildings on the campus.

Automatic stokers are used throughout. The coal is conveyed from the railroad car to a storage bin in the roof. From there it is let down into bins above the stoker as it is needed. The heat and light distribution systems run through a system of tunnels to the various buildings.

The power plant is located just across from the new gymnasium. It will be open to visitors at all times during Engineers' Day.



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