

The Knowledge Bank at The Ohio State University
Ohio State Engineer

Title: Front Matter

Issue Date: Nov-1927

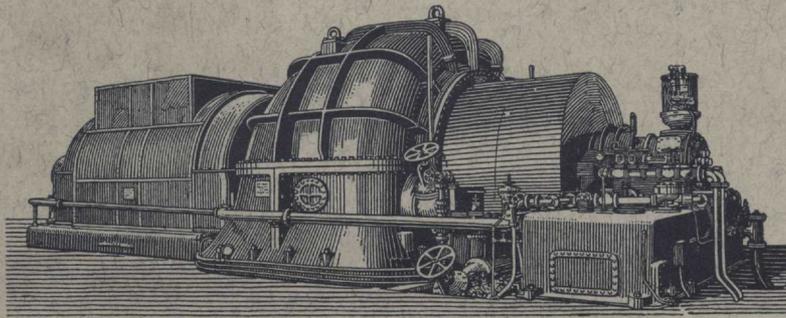
Publisher: Ohio State University, College of Engineering

Citation: Ohio State Engineer, vol. 11, no. 2 (November, 1927), 1-3.

URI: <http://hdl.handle.net/1811/34299>

Appears in Collections: [Ohio State Engineer: Volume 11, no. 2 \(November, 1927\)](#)

THE OHIO STATE ENGINEER



MEMBER OF
ENGINEERING COLLEGE MAGAZINES
ASSOCIATED

TA
1

036

v. 11, no. 2

Nov. 1927

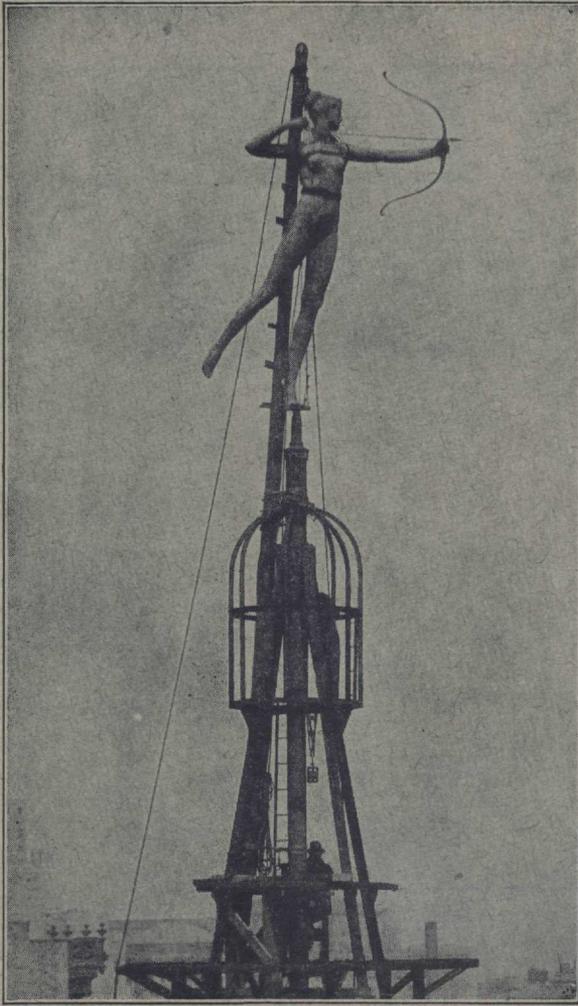
copy 3 Homecoming

∴ Number ∴

NOVEMBER

1 9 2 7

v 11 no 2



DIANA—On Her Way to New York University

FORMER college generations remember the old Madison Square Garden (the creation of the late Stanford White) which housed Moody and Sankey Revivals, Barnum Circus, Six-Day Bicycle Races, Tex Rickard's Prize Fights, Horse Shows, Democratic Conventions, etc. Gracefully and serenely poised on top, the St. Gaudens statue of Diana was for years an outstanding figure in the New York skyline.

Diana is experiencing discomforts of detours but is on her way to an appropriate spot on the New York University Campus. Illustration shows Diana about to step off on her way to college—in splendid physical condition and destined to rank high among the college immortals.

The old Otis Elevator that bore many famous

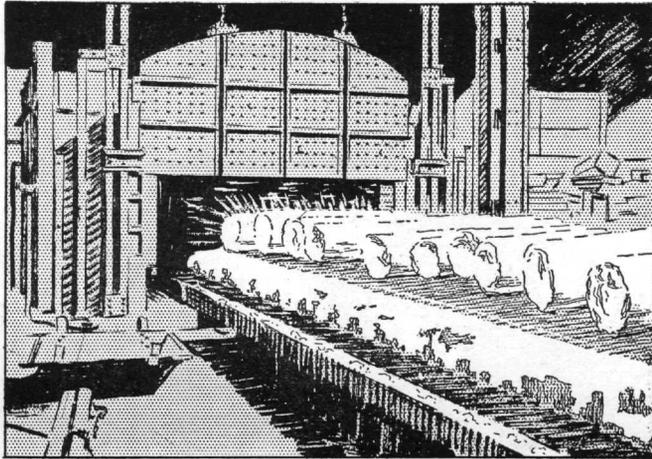
people to the White Studio in the Tower has been junked. The New York Life Insurance Company is erecting a huge office building on the site of Madison Square Garden, as shown above.

The elevator equipment of the new building for the New York Life Insurance Company, Cass Gilbert, Architect, consists of 33 Otis Automatic Signal Control Elevators, operating at high speed, and equipped with the Micro-Drive or self-leveling feature; in addition to some few smaller and less important machines. Signal Control is automatic and the elevators are operated by pressure of buttons in the car or on the floors, all stopping and starting of the car being done automatically and in response to the calls registered on the controller by the pressing of such buttons.

O T I S E L E V A T O R C O M P A N Y

Offices in All Principal Cities of the World

No job too great for Gas!



TWENTY tons of white hot steel are being rolled out of this huge GAS FURNACE on a steel flat car, which forms the hearth.

The large pieces of steel on the car are locomotive axles which have been through an annealing process in this gas-fired furnace, an operation that precludes all likelihood of axles breaking.

Industrial gas maintains in this furnace a temperature of 1600 degrees Fahrenheit.

Gas is the most "Flexible" of all fuels. It can be used in a jeweler's tiny torch, or for huge operations, such as pictured above. It is also "Flexible" in the sense that its volume and intensity can be raised or lowered, instantly, at the turn of a valve. It gives a concentrated heat wherever needed without involving bulk, waste energy or waste material.

Gas is obviously the Industrial Fuel of the day. Write to your gas company for facts concerning the use of gas in YOUR industry, or to



American Gas Association
420 Lexington Avenue, New York City

YOU CAN DO IT BETTER WITH GAS



Waste Dethroned!

Waste no longer reigns in Industry! Timken Bearings have decreed it! Machinery users are freed of the excessive tax of friction, wear, inaccuracy and under-production.

Power savings as high as 60% and lubrication savings of even greater proportion stand to the credit of Timken Tapered Roller Bearings.

On high speed work Timken Tapered Roller Bearings are being specified for operation at 15,000 r. p. m. On heavy duty jobs Timkens are carrying single loads upwards of 2,500,000 pounds.

On the spindles of the finest machine tools Timkens are

making extreme precision a permanent quality. In electric motors Timkens are revealing hitherto unheard of saving and endurance.

In every type of equipment the exclusive combination of Timken tapered construction, Timken *POSITIVELY ALIGNED ROLLS* and Timken-made electric steel has brought a new era of economy, precision and endurance.

So great are Timken betterments that it is advantageous in many cases to replace obsolescent types of equipment *at once*. Leading manufacturers in every line now offer Timken-equipped machinery.

THE TIMKEN ROLLER BEARING COMPANY, CANTON, OHIO

TIMKEN *Tapered Roller* BEARINGS

OHIO STATE ENGINEER

Published in October, November, January, February, March, April, May
by the students in the College of Engineering, Ohio State University

Vol. XI

NOVEMBER, 1927

No. 2

CONTENTS

	Page
CIVIL ENGINEERS' CONVENTION CONSIDERS PROBLEMS	4
TESTING A VARIABLE SPEED INDUCTION MOTOR	5
RESEARCH MAN OR ENGINEER?	7
THE DEVELOPMENT OF THE STEAM TURBINE	9
THE WORK OF THE COLUMBUS BRANCH OF THE BUREAU OF STANDARDS	10
THE BINOMIAL THEOREM IN BRIDGE	11
ENGINEERING ABSTRACTS	12
ALUMNI NEWS	13
CAMPUS NOTES	14
EDITORIAL	16
JOKES	10

Subscription price, \$1.50 per year, 25c per copy. Checks, money orders, etc., payable to the Ohio State Engineer.

Entered as second-class matter May 15, 1922, at the post office at Columbus, Ohio, under the act of March 3, 1879. Acceptance for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized December 8, 1922.

MEMBERS OF THE ENGINEERING COLLEGE MAGAZINES ASSOCIATED

Chairman: Prof. Leslie F. Van Hagan, College of Engineering, Madison Wisconsin

<p>The Transit Iowa Engineer Colorado Engineer Nebraska Blue Print Sibley Journal of Engineering Rose Technic Michigan Technic The Ohio State Engineer Penn State Engineer Minnesota Log</p>	<p>University of Virginia Journal of Engineering Wisconsin Engineer Tech Engineering News Cornell Civil Engineer Kansas State Engineer Princeton E. A. News Letter The Technigraph Pennsylvania Triangle Kansas Engineer</p>
--	--