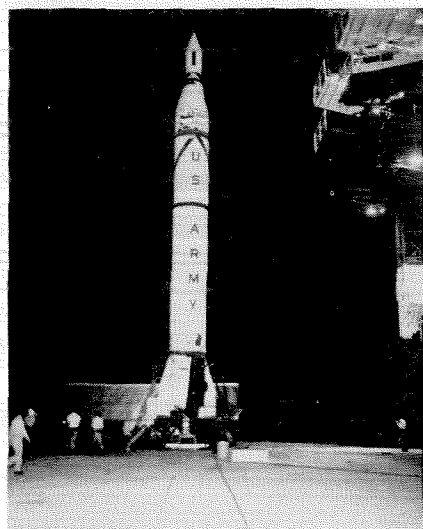


ENGINEERING AND SCIENCE

IN THIS ISSUE



ON OUR COVER—an Army Jupiter C missile, on the launching platform at Cape Canaveral, Florida, similar to the one that fired the Caltech satellite, the Explorer, into orbit on January 31.

The Caltech Jet Propulsion Laboratory and the Army Ballistic Missile Agency of Huntsville, Alabama, joined in this first successful firing of a U.S. satellite. For more details on the satellite, and what Caltech had to do with it, see page 20.

PRESIDENT DUBRIDGE'S article, "The Challenge of Sputnik," started life as a talk given at Los Angeles Junior College in Van Nuys last November. It made such an impression on that audience that Dr. DuBridge is constantly being asked to repeat it, and it has been run in full in the Pasadena *Independent-Star News*. You'll find this timely, hard-hitting statement on page 13.

PICTURE CREDITS

Cover U.S. Army
p. 20 Elton Sewell,
Independent-Star News
pps. 25, 28 Journal of American
Waterworks Association

February, 1958

FEBRUARY, 1958

VOLUME XXI

NUMBER 5

PUBLISHED AT THE CALIFORNIA INSTITUTE OF TECHNOLOGY

CONTENTS

In This Issue	3
Letters	6
The Challenge of Sputnik	13
<i>Has Russia now, before all the world, challenged us to an intellectual contest which we are not prepared to win?</i>	
<i>by L. A. DuBridge</i>	
William W. Huse: In Memoriam	19
<i>by Harvey Eagleson</i>	
The Month at Caltech	20
Desalting the Pacific	22
<i>A progress report on how we are tackling the problem of getting fresh water from the ocean</i>	
<i>by Jack E. McKee</i>	
Student Life	36
<i>All about elections</i>	
<i>by Brad Efron '60</i>	
Personals	40

STAFF

Publisher.....	Richard C. Armstrong '28
Editor and Business Manager.....	Edward Hutchings, Jr.
Editorial Assistant.....	Gerda Chambers
Student News.....	Brad Efron '60
Student Photographers.....	Dennis L. Paul '59 William R. Schmus '60

Published monthly, October through June, at the California Institute of Technology, 1201 East California St., Pasadena, Calif., for the undergraduates, graduate students and alumni of the Institute. Annual subscription \$3.50 domestic, \$4.50 foreign, single copies 50 cents. Entered as second class matter at the Post Office at Pasadena, California, on September 6, 1939, under act of March 3, 1879. All Publisher's Rights Reserved. Reproduction of material contained herein forbidden without written authorization. Manuscripts and all other editorial correspondence should be addressed to: The Editor, *Engineering and Science*, California Institute of Technology. © 1958 Alumni Association, California Institute of Technology.

Printed in Pasadena PP

3