In this Issue

On our cover this month is Edward B. Lewis, professor of biology, and author of the article on page 19, "Two Wings or Four," describing genetic experiment at Caltech which has provided biologists with a working model for picturing the genetic control of development.

From this working model, Dr. Lewis, developed a four-winged fly—the fruit fly, Drosophila, which is such an ideal tool for genetic studies. Background of our cover picture. Drosophila, you will note, form the foreground, too, as a matter of fact; each of those bottles contains a family of them (two parents and—after just a few days—their hundreds of offspring).

Dr. Lewis was graduated from the University of Minnesota in 1939, came to Caltech as a teaching fellow and received his PhD here in 1942. After wartime service as a meteorologist with the Air Force in the Pacific he joined the Caltech faculty in 1946.

Two Wings or Four?

By turning a two-winged fly into a four-winged one, Caltech geneticists produce a working model for picturing the genetic control of development.

by Edward B. Lewis.

The Campus

Some samples of a new collection of photographs by Thomas W. Harvey.

The Best Is None Too Good

By 1972 the American people may be sending about 50 percent of their children to college. How will we make room for them? How will we pay the bill? And what quality shall the education be?

by L. A. DuBridge

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. © 1957 Alumni Association, California Institute of Technology.