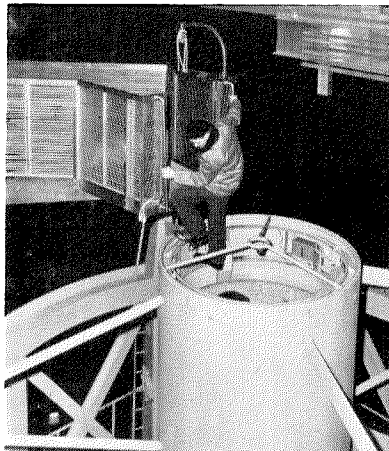


# ENGINEERING AND SCIENCE

## IN THIS ISSUE



On our cover this month, Dr. William Baum, a member of the Mount Wilson and Palomar Observatories staff, is shown climbing down from the prime-focus elevator at the Palomar Observatory into the observing cage of the 200-inch telescope, where he will put in a night's work.

On pages 13-19 of this issue are some other pictures of astronomers at work at the Palomar Observatory. These are just about the first pictures of this kind that have been taken since the observatory was opened in 1948—and, to all but staff astronomers, they furnish fresh evidence that Palomar is a spectacularly photogenic place.

"Educating Scientists and Engineers" was originally given as a talk by President DuBridge to the Los Angeles Kiwanis Club on March 14. On page 20 is an excerpt from the talk, which provides a sharp evaluation of science and engineering education today.

Sir Charles Galton Darwin, on a visit to Caltech last month, presented "Forecasting the Future" at a physics seminar. His sober, and scarifying, predictions will be found on page 22 of this issue.

Sir Charles, a pioneer in nuclear studies, was director of the National Physics Laboratory in England from 1938 to 1949. He is the grandson of the Darwin who wrote "On the Origin of Species." Now on a lecture tour of New Zealand and Australia under the auspices of London's Royal Society, he was no stranger to Caltech when he visited here last month; he served as a visiting professor at the Institute in 1922.

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