



# ENGINEERING AND SCIENCE MONTHLY

VOL. XIII

CONTENTS FOR MAY

NO. 8

## In this issue

On the cover this month Caltech Physicists Carl Anderson, Aaron Seriff and Bob Leighton are gathered around a viewer, checking cloud chamber photographs — a procedure which has occupied a good deal of their time in the last year, while searching for evidence of two new elementary particles of matter. In fact, they took 11,000 cloud chamber photographs — and found evidence of the new particles in exactly 34 of them. You'll find the story of these new particles on page 10 of this issue.

### The Bomb

Robert F. Bacher delivered a speech on the hydrogen bomb before the Town Hall Club in Los Angeles on March 27. Unlike most speeches, it's still going strong. Besides appearing in this issue of *E & S*, it's in the May issue of *Scientific American*, is due to appear in the July issue of *Reader's Digest* — and is still stirring up editorial comment in the newspapers and other magazines.

Dr. Bacher, head of Caltech's Division of Physics, is a former Atomic Energy Commissioner. On these grounds his speech is naturally *deserving* of attention. But it's *getting* attention on its own merits. It breaks through the iron curtain of secrecy that surrounds the hydrogen bomb these days and produces the kind of vital information on the subject that ought to be — but isn't — available anywhere else.

#### PICTURE CREDITS

- Cover—Ralph Lovberg '50
- p. 11—Official Photograph—  
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- p. 14—Mount Wilson and Palomar  
Observatories (right)
- p. 16—Ross Madden-Black Star (top)  
Ralph Lovberg '50
- p. 17—Ralph Lovberg '50
- p. 18—Bob Madden '51

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