

ENGINEERING AND SCIENCE

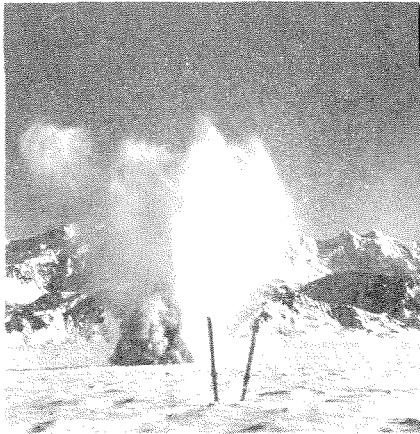
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ON OUR COVER this month—an explosion on the upper Seward Glacier in Alaska. This is a man-made explosion, set off by glaciological researchers from Caltech, who measure the thickness of the ice by recording the artificially-generated waves reflected from the rock floor beneath the glacier.

This summer, Caltech glaciologists will be making these studies in conjunction with scientists from all over the world, as part of the research program of the International Geophysical Year, which starts on July 1.

The U.S. program during the Geophysical Year will cover 13 fields of research. Work in each of these fields is being directed by Technical Panels. On these panels are five Caltech scientists who, on pages 8-17 of this issue, tell the story of Caltech's participation in the IGY program.

The five: Robert P. Sharp and Frank Press (Glaciology); William H. Pickering (Earth Satellite Program); Seth B. Nicholson (Solar Activity); and H. V. Neher (Cosmic Rays).

PICTURE CREDITS

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