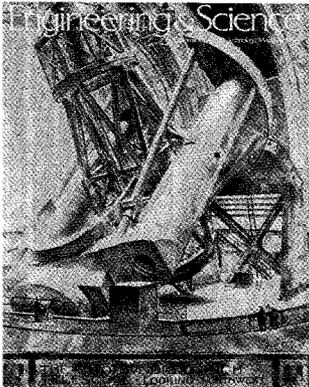


In This Issue



Happy Anniversary

On the cover — in honor of the 30th birthday of the 200-inch Hale Telescope, a drawing made ten years before it became a working reality. Artist Russell W. Porter, associate in optics and instrument design at Caltech from 1929 until his death in 1949, was a member of the team that created and erected the great astronomical instrument. He was also the developer of a "cutaway" drawing technique that made it possible to visualize details of the Hale project with extraordinary precision. Fortunately, many of the series of drawings he made of the telescope and its associated buildings and adjuncts survive and can still be seen at Caltech.

While the Hale Telescope still looks much as Porter depicted it, the 30 years since it began operations have seen almost incredible changes and advances in astronomy. Many of these were made possible by the intensive use of the 200-inch, plus all the other superb instruments at the Palomar Observatory.

"A Giant's Birthday" on page 6, by Dennis L. Meredith, director of Caltech's News Bureau, tells the story of some of those achievements. Meredith came to Caltech in 1977 from MIT, where he was managing editor of *Technology Review*. He is the author of *Search at Loch Ness*, published in 1977 by Quadrangle/The New York Times Book Co.



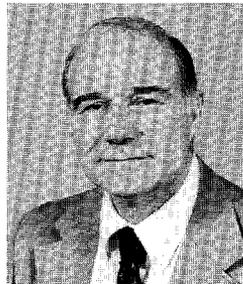
Russell W. Porter



Norman Horowitz

Summary Proceeding

As chairman of the division, Norman Horowitz headed up the planning and did a lot of the presiding at the 50th anniversary symposium of Caltech's biology division held on the campus last fall. The end of the symposium, however, didn't end Horowitz's dealings with it. He is now at work on the preparations for publishing the proceedings. This has included making summaries of all the 18 talks by distinguished Caltech alumni. "Genes, Cells, and Behavior: A View of Biology Fifty Years Later" on page 11 presents the first seven of those summaries. The rest will appear in our next issue.



Carel Otte

Some Like It Hot

The July 31, 1978, issue of *Fortune* magazine carried an article by John Quirt entitled "Union Oil Gets Up Steam for Geothermal Energy," in which two staunch friends of the Institute are key figures. They are Caltech trustee Fred L. Hartley, who is chairman and president of Union Oil Company of California, and alumnus Carel Otte, who is president of Union's Geothermal Division. Otte is

the author of "Developing Our Geothermal Energy" on page 16.

The *Fortune* article describes Union's leading role in making geothermal energy a reality in the United States today and Otte as a "Dutch-born World War II pilot with a doctorate in geology." Otte's training in geology began at the University of Amsterdam, where he took his BS in 1943. He entered Caltech in 1948 and received his MS in 1950 and his PhD in 1954. While at the Institute he was Resident Associate of Blacker House. He has been active in alumni affairs and is president-elect of the Caltech Alumni Association.

At a professional level, Otte is a fellow of the Geological Society of America and a member of the American Association of Petroleum Geologists, the author of several technical publications, and co-editor of a book on geothermal energy published by the Stanford University Press. For three years he served as chairman of the Advisory Committee on Geothermal Energy to ERDA, and then the Department of Energy. He has also been selected as Distinguished Lecturer for the Society of Petroleum Engineers of AIME for 1980.

The Good Old Days

"Henry Borsook — How It Was" on page 23 is the second and final installment of an interview with the Institute's first professor of biochemistry, now professor emeritus. Borsook's recollections are a part of the oral history project now under way at Caltech.

An oral history is, of course, made up of more than memories. It takes the diverse skills of the researcher, interviewer, transcriber, editor, and typist to produce an edited, indexed, and bound transcript from the interviews. The two people, interviewer and subject, typically spend three or four sessions, each an hour or so in length, talking to each other. Once transcribed, the manuscript is edited by both people; the subject signs an agreement regarding its use, and the transcript is then deposited in the archives — a deposit from which *E&S* looks forward to drawing other chapters in the future.

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