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obituaries

on these ion sources, the attainable beam currents increased by two orders of magnitude—greatly due to his persistence and skill.

In addition to his work on ion sources, Bastide became involved in all the other technical aspects of these high-voltage accelerators, with the result that he wrote or was co-author of more than fifty publications. His honest and forthright attitude brought inspiration and coherence to the groups in which he worked.

In 1971 Bastide helped found Extrion, a company formed to build small accelerators for the semiconductor industry. The ion implanters on which he collaborated rapidly became the standard of the industry. The company, now owned by Varian Associates, has grown from the original small group to more than 800 employees.

Throughout Roger's active working life he was an inspiration to his many friends and colleagues. He possessed a marvelous intuition concerning the right way to tackle a problem. He also possessed a unique warmth of personality that charmed everyone who met him, and for which he will long be remembered.

PETER H. ROSE
Nova Associates, Inc.
Beverly, Mass.

Herbert S. Polin

Herbert S. Polin, director of the Laboratoire de Recherches Physiques, Geneva, Switzerland, died in Geneva on 20 June 1979. He was 70 years old.

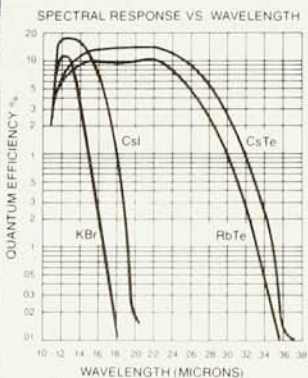
Polin had a long career in the fields of solid-state physics and instrumentation, electrochemistry, physical chemistry and processes involving charge conduction in solid and liquid dielectric substances. His undergraduate training took place at the Eidgenössische Technische Hochschule in Zurich where he earned a BS in 1930. The University of Paris granted him a ScD three years afterwards.

From 1933 to 1936 he continued his studies at the Marine Biological Laboratories, Woods Hole, Mass. During the summers of this period and the following four years, Polin worked on bio-electrical mechanisms. In 1940, in connection with a wartime assignment to Brazil, he joined a group studying *Electrophorus electricus*, the electric eel of the Amazon River. Polin joined the Laboratoire de Recherches Physiques in 1946, becoming its director in 1950. He participated in the formation of Instituto de Biofisica in Rio de Janeiro, Brazil and spent two months there each year as a visiting professor. He also served as a visiting scientist for the University of Alabama in Birmingham.

Polin named the American Institute of Physics as his principal beneficiary. □

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Cathode types: CsI, CsTe, RbTe, KBr, Bi-alkali, and S-20.



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