

CRYOGENESIS

Balzers New Cryopumps

It stands to reason that the best cryopumps in the world would be made by Balzers. For over 35 years we've been dedicated to building vacuum products of exceptionally high performance and reliability. Developed and manufactured in the U.S., Balzers new series of cryopumps continues this legacy.

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Our patented, two-piece ceramic sliding valve means that our cold head will run efficiently for years. Without valve adjustments, retiming, or gradual performance loss. And our unique compressor system results in a maintenance schedule of only once every 15,000 hours, the finest in the industry.

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effects of solar activity on the lowest layers of the atmosphere. The Appleton prize is given triennially, and was established in 1966 to commemorate the work of the late Sir Edward Appleton, who received the Nobel prize in physics in 1947.

Japanese Meteorological Society Award to Yamada

The Japanese Meteorological Society has presented its highest honor, the Society Award, to Tetsuji Yamada, a member of the earth and space sciences division of Los Alamos National Laboratory. Yamada received the award for his development of computer-simulated models of atmospheric turbulence over complex terrain that are used for air-pollution and weather studies. He earned both his BS and MS in engineering from Osaka University in Japan, and his PhD in 1971 from Colorado State University at Fort Collins. A naturalized US citizen, Yamada was a meteorologist at Princeton University and at Argonne National Laboratory before joining Los Alamos in 1981.

AMS presents awards to Doob, Stein and Carleson

The American Mathematical Society awarded three Leroy P. Steele prizes at its 88th Summer Meeting, held at the University of Oregon.

Joseph L. Doob, professor emeritus of mathematics at the University of Illinois, Urbana-Champaign, was awarded the 1984 Career Prize for "his fundamental work in establishing probability as a branch of mathematics and for his continuing profound influence on its development." Doob obtained his PhD from Harvard University in 1932 and held postdoctoral fellowships at Columbia University. A member of the faculty of the University of Illinois since 1935, he served as president of AMS in 1963 and 1964. He is best known among physicists for his book, *Stochastic Processes*.

Elias M. Stein, professor of mathematics at Princeton University, received the 1984 Expository Prize for his book, *Singular Integrals and the Differentiability Properties of Functions*, written in 1970. After obtaining his PhD in 1955 from the University of Chicago, Stein held teaching posts there and also at the Massachusetts Institute of Technology before coming to Princeton in 1963. His major research interests are topics in harmonic analysis related to the Littlewood-Paley theory, singular integrals and differentiability properties of functions