



James A. Van Allen was born in Mt. Pleasant, Iowa. Following his early education in the public schools there, he attended Iowa Wesleyan College and received a B.S. degree in physics in 1935. His graduate study was at the University of Iowa, with an M.S. degree in 1936 and a Ph.D. degree in nuclear physics in 1939. Subsequent professional experience included research at the Carnegie Institution of Washington and the Applied Physics Laboratory of Johns Hopkins University as well as World War II service as a naval officer in the Pacific Fleet. In 1951, he returned to the University of Iowa as a professor of physics and head of the Department of Physics (after 1959 the Department of Physics and Astronomy). He has been a pioneer in space exploration including discovery of the radiation belts of the Earth in 1958 and the first missions to the planets Venus, Mars, Jupiter, and Saturn. He has authored 246 research papers and two books on planetary magnetospheres, cosmic rays, solar energetic particles, and solar X-rays and has directed 34 Ph.D. dissertations and 45 M.S. theses in these fields. He received a National Medal of Science from President Reagan in 1987; the Gold Medal of the (U.K.) Royal Astronomical Society in 1978; the Crafoord Prize of the Royal Swedish Academy of Sciences from King Carl XVI Gustaf in Stockholm in 1989; the Nansen Medal and Prize from the Norwegian academy of Science and Letters in Oslo in 1990; and the 1991 Vannevar Bush Award of the National Science Board. He and his wife, the former Abigail Fithian Halsey, have three daughters and two sons.

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Ninth Annual Presidential Lecture
The University of Iowa

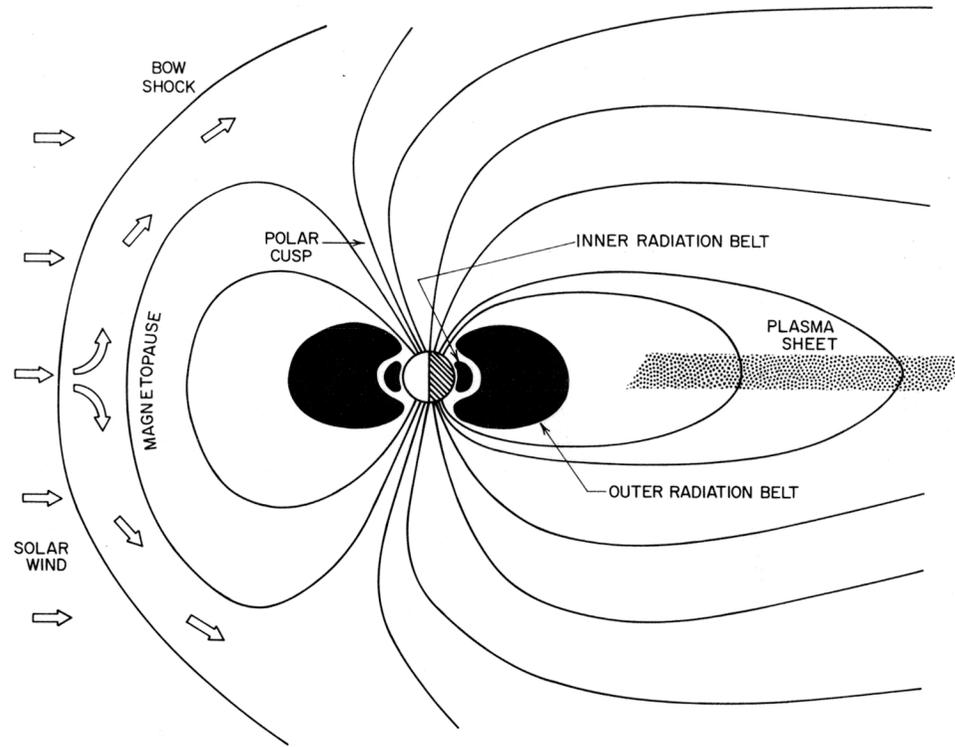


James A. Van Allen

Regent Distinguished Professor
Department of Physics and Astronomy

The Modern Saga of Planetary Exploration

3:30 p.m., Sunday, February 2, 1992
Clapp Recital Hall



THE EARTH'S MAGNETOSPHERE

The Presidential Lecture series, established in 1984 through the generosity of donors of unrestricted gifts to the University of Iowa Foundation, provides an annual opportunity for a distinguished member of the faculty to present significant aspects of his or her work to members of the University community and to the general public. The series is intended to encourage intellectual communication among disciplines and to provide a public forum for University scholarship, research, and creative achievement.

Previous lecturers in this series: **Sherman Paul**, English, "The Onward Way," 1984; **Antonio R. Damasio**, M.D., Neurology, "What's in a Brain That Ink May Character?" 1985; **June Helm**, Anthropology, "Horde, Band, and Tribe: Northern Approaches," 1986; **Linda K. Kerber**, History, "History Will Do It No Justice: Women's Lives in Revolutionary America," 1987; **Beaumont Glass**, Music, "Genius on the Opera Stage: The Life and Art of Lotte Lehmann," 1988; **George Wolfgang Forell**, Religion, "The Sacred and the Secular: Religion in the State University," 1989; **John E. Donelson**, Biochemistry, "Molecular Biology of Parasites Causing Tropical Diseases," 1990; **Jorie Graham**, Writers' Workshop, "A Poetry Reading," 1991.

The President's Office has a small supply of published texts of these lectures, available upon request from 335-3549.

Program

Final/Drift

From Anders Hultqvist's *Music for James Van Allen*, 1989

Karen Bergquist, flute
Marla Feeney, clarinet
Brian McLaughlin, horn

Wonran Kim, violin
Michele Meininger, viola
Margot Bennett, violoncello

Center for New Music

Introduction

Hunter R. Rawlings III

The Modern Saga of Planetary Exploration

James A. Van Allen

Reception immediately following

Music for James Van Allen, by Anders Hultqvist, a member of the faculty of music at the University of Göteborg, was commissioned by the Royal Swedish Academy of Sciences for the Crafoord Prize ceremony in Stockholm in 1989. This is the first performance outside Sweden.

The ensemble of graduate students from the Center for New Music, University of Iowa School of Music, was organized especially for today's program by Professors David K. Gompper, musical director, and D. Martin Jenni, director.

At the reception in the lobby immediately following the lecture, Wolfram Niessen, a sculptor from Wheeler, Wisconsin, will unveil a new piece, a bronze bust created in honor of Professor Van Allen.