

Professional Profile

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Described in *Business Week* as a founding father of the application of systems methodology to managing risk, he enjoys worldwide recognition as an authority in that field. His interdisciplinary perspective on the subject is based on over 50 years of personal involvement – having served as an executive in three major corporations, university professor in Europe as well as the United States, and consultant to such firms as AT&T, EXXON, and IBM.



Holding a BS in Physics, MS in Systems Management, and honorary DSc, he was a member of the Applied Physics Staff at The Boeing Company from 1952-59, where he performed the first Boeing tests that combined three dynamic environments simultaneously and wrote the development test program for the Minuteman ICBM.

He originated the widely-adopted **SMART** (*Systems Methodology Applied to Risk Termination*) technique for managing every type of risk – legal, political, social, economic, and technological – which was successfully utilized to combat terrorism at the 1984 Olympics in Los Angeles.

Dr. Grose was affiliated with Litton Industries in 1959-62 as Director of Reliability as well as Program Manager for Project SPARR, an Air Force program of basic and applied research on space system problems. In 1962, he joined Northrop Ventura as Director of Applied Technology – responsible for all engineering test activities and the disciplines of chemistry, metallurgy, reliability, configuration management, and value engineering on the Earth Landing Systems for NASA Projects Mercury, Gemini, and Apollo. As Chief of Reliability at Rocketdyne, a division of Rockwell Corporation, he continued his involvement in the Gemini and Apollo Programs.

Dr. Wernher von Braun appointed him to the NASA Safety Advisory Group for Space Flight in 1969. Three appointments by the National Academy of Sciences have involved his systems management background: Panel on Human Error in Merchant Marine Safety (1972), Committee on Research Needs to Reduce Maritime Collisions, Rammings, and Groundings (1978), and Panel on Causes and Prevention of Grain Elevator Explosions (1978).

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From 1966 to 1982, he was Vice President of Tustin Institute of Technology in Santa Barbara, California – responsible for all management curricula and system technology studies.

The Peoples Republic of China invited him in 1981 to address their Academy of Sciences in Beijing on the systematic management of risk.

President Reagan appointed him to the National Transportation Safety Board in 1983 and the National Highway Safety Advisory Commission in 1986. His appointment to the NTSB was based on his extensive participation in all transportation modes – maritime, rail, pipeline, highway, aviation, and space. As a Board Member, he headed the NTSB “Go-Team” investigation of major accidents.

The White House assigned him for one year to the Associate Administrator for R&D at the Environmental Protection Agency to implement systematic management of risk. On another White House assignment as Expert Consultant to the NASA Chief Engineer, he pioneered a model for commercial enterprise in space. In 1997, Vice President Gore solicited his expertise for the *White House Commission on Aviation Safety and Security*.

His upcoming book, ***WINNING THE WAR ON TERRORISM***, has been widely endorsed by many authorities including Major General (ret) John K. Singlaub who says: “His international expertise in systems methodology, together with practical experience in combating terrorism, grant him unique authority to promote optimism needed today to face terrorists with boldness.”

A featured guest on the *Today Show*, *Good Morning America*, *Prime Time Live*, *CBS Newswatch*, *ABC 20/20*, *BBC-London*, *O’Reilly Factor* and many other television programs, he has given over 100 interviews on CNN as their Risk and Aviation Analyst. He provided over 170 news interviews related to the 1996 explosion of TWA Flight 800. Dr. Grose is a FOX News Contributor and was being interviewed just as UAL 175 impacted the World Trade Center Tower 2 on 11 September 2001. His viewpoints have been published in such periodicals as *Time*, *USA Today*, *US News & World Report*, *Chicago Tribune*, *Los Angeles Times*, *Washington Post*, and *Christian Science Monitor*.

His professional papers have been published internationally in over 60 journals and periodicals. Reviewers of his best-selling book published by Prentice Hall, ***MANAGING RISK: Systematic Loss Prevention for Executives***, have called it “the most influential book on the subject in this decade.” It is widely used in universities and is now in its third printing.

His biography appears in *Liftoff* by James C. Hefley that describes the personal faith of astronauts and space scientists. He is listed in *WHO’S WHO In the West*, *Dictionary of International Biography*, *Men of Achievement 1973*, *International WHO’S WHO of Intellectuals*, and *WHO’S WHO In The World*.