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ROBERT J. NAUMANN

Naumann
Dr. Robert J. Naumann is chief of the Space Processing Division and chief scientist for materials processing in space at NASA's George C. Marshall Space Flight Center in Huntsville, Alabama. He is responsible for supervising research in the field of materials science in low gravity.

Dr. Naumann was born in Gillespie, Illinois, in 1935. After graduation from Ensley High School, Birmingham, Alabama, in 1953, he attended the University of Alabama, Tuscaloosa, where he was awarded a bachelor's degree in physics in 1957. He received a master's degree in physics from the University of Alabama, Tuscaloosa in 1958 and a doctorate in physics from the University of Alabama, Tuscaloosa, in 1964.

In 1957, Dr. Naumann began work as a physicist with the Army Ballistic Missile Agency in Huntsville. In 1960, he joined the Marshall Center as a physicist and was appointed chief of the Meteoroid Physics Branch in 1964. In 1970, he became chief of the Physics and Instrumentation Division where he served until assuming his present duties in 1977.

Dr. Naumann has specialized in the fields of celestial mechanics, rigid body mechanics, space physics, nuclear weapons effects, meteor physics, hypervelocity acceleration and impact physics, shock mechanics, surface physics, materials science, and physicochemical hydrodynamics. He is the author of numerous technical papers and has been awarded several patents for his work. He is a member of the American Physical Society, Sigma Xi, the Materials Research Society, and the American Institute

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of Aeronautics and Astronautics. He has received several awards for his work including the NASA Medal for Exceptional Scientific Achievement, the NASA Medal for Exceptional Service, and a Director's Commendation.

In his spare time, Dr. Naumann enjoys tennis and restoring automobiles. He and his wife, Sally, reside in Huntsville and are the parents of three children: Robert, Charles, and David.

The Marshall Center has a leading role in the space program. During the sixties and early seventies, the Center was best known for development of Saturn launch vehicles and Lunar Roving Vehicles for the Apollo program, and for Skylab, the first U.S. space station. The Center has also developed satellite scientific experiments which have returned a wealth of data in astronomy, astrophysics, and other disciplines.

Currently, the Marshall Center is carrying out a large variety of projects ranging from development and production of the propulsion elements of the Space Shuttle, the first reusable space ship, to management of Spacelab Earth-orbital missions, development of the Space Telescope, and other payloads for the Space Shuttle. Also, the Marshall Center is playing a significant role in the Space Station Project with the assignment to define and design pressurized common modules for use as laboratories, living areas, and logistic transport; to design environmental control and propulsive systems; to design systems for equipping the laboratory and logistics modules; and to design accommodations for orbital maneuvering and orbital transfer vehicles which would operate from the Space Station. The Center also conducts basic research in many areas such as space and environmental sciences, chemical propulsion, structures, materials, and electronics.

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