2-5-94

DAVID S. JOHNSON

Brief Resumé

EMPLOYMENT

Since 1986, he has been a Senior Staff Officer with the NAS/NAE National Research Council. He was project director for post-Challenger evaluation of Space Shuttle risk assessment and management, called for by the Rogers (Presidential) Commission, and Associate Director of the Space Applications Board. He now is Director, National Weather Service modernization program.

1983-1986, he was a consultant in remote sensing satellite systems and their application; weather observing and data systems; and technology review, management, and planning associated with environmental programs.

1982-1983 he was Special Assistant to the President, University Corporation for Atmospheric Research (UCAR) and consultant to the Secretary General of the World Meteorological Organization (WMO). For UCAR he provided corporate overview of the National Scientific Balloon Facility, managed various cooperative university programs, and assisted in program planning and government liaison.

1958-1982 he was a key leader in establishing and developing the meteorological satellite program in the United States, establishing, with one other person, the initial satellite research program in the U.S. Weather Bureau in 1958 and contributing to the planning of the first weather satellite, TIROS I. He then played a leading role in the design of the first operational weather satellite system launched in 1966 and fostering the formation of a cooperative international network of meteorological satellites involving the European Space Agency, Japan, USSR and USA. He led the further development and operation of the National Oceanic and Atmospheric Administration's satellite systems, retiring from government service as Assistant Administrator for Satellites, the chief policy and program officer for land, oceanic and atmospheric civil operational satellite systems.

1947-1958 he held a series of research positions at University of California at Los Angeles, Pineapple Research Institute of Hawaii and the U.S. Weather Bureau which involved sensor system development, observation programs, synoptic and agricultural meteorology, and cloud physics research.

PROFESSIONAL AFFILIATIONS

American Association for the Advancement of Science, American Astronautical Society (Fellow), American Geophysical Union (Fellow), American Institute of Aeronautics and Astronautics (Assoc. Fellow), American Meteorological Society (Fellow), Cosmos Club (Washington, D.C.), International Academy of Astronautics (honorary), Sigma Xi.

OTHER ACTIVITIES

Member of the Board of Directors and Executive Committee of the American Astronautical Society (1988-93). He served on the NAS/NAE National Research Council Committee for the Study of the Nation's Weather Observation Systems (1986-87). He has been involved in many bilateral and multilateral activities associated with the space program and meteorology, and in many coordination, planning and policy bodies of the U.S. Government. He has served on the Council, Executive Committee and as President of the American Meteorological Society; chaired its Committee on Atmospheric Measurements; and member of various committees. He also has been active in the Committee on Space Research (COSPAR) of the International Council of Scientific Unions and on panels of the World Meteorological Organization. He has lectured and published extensively in the United States and abroad. He served in the U.S. Army Air Corps, 1943-1946.

EDUCATION

- University of California, Berkeley (engineering) 1942-43
- Reed College, Portland (pre-meteorology program) 1943-44
- Harvard University, Cambridge (electronics) 1945
- University of California, Los Angeles (meteorology) 1947-51 (AB 1948, MA 1949)

AWARDS

Gold medal, Dept. of Commerce, 1965; Exceptional Service Medal, NASA, 1966; Federal Career Service Award, National Civil Service League, 1974; Pecora award, NASA and Department of the Interior, 1978; Presidential Meritorious Executive Award, 1980; Achievement Award of the American Astronautical Society, 1981; Brooks Award, American Meteorological Society, 1982; Silver Medal Award-25th Anniversary of Weather Satellites, Department of Commerce, 1985; National Research Council group award for Space Shuttle study, 1987; Recognition Award, Space Technology Hall of Fame, 1992; Lovelace Award, American Astronautical Society, 1992.

RECENT PUBLICATIONS

1989 Working together with weather satellites. Space Times, Vol 28, No 5, p 1, Am Astronaut Soc.

1986 Meteorological parameters derived from space-based observing systems, during the Global Weather Experiment and after. Proc. International Conference on the Results of the Global Weather Experiment and their Implications for the World Weather Watch. GARP Publications Series No. 26, WMO/TD-No. 107, pp 75-109. World Meteorological Organization, Geneva, Switzerland.

1985 (with E.L. Heacock) NOAA's operational satellite service: C^3A. In Air and Satellite Communications, L.M. Paschall ed., Vol 2 of AFCEA- SIGNAL C^3I Series, pp 132-138. (Originally appeared in Nov-Dec 1979 issue of SIGNAL.)

1984 Satellite capabilities to 1995 for meteorology and operational hydrology, WMO Technical Document-No. 56 (SAT-2), 27 pp + 3 appendicies. WMO, Geneva, Switzerland.

1984 Meteorological parameters derived from space-based observing systems- FGGE and after (similar to 1986 paper). Proc. Seminar & Workshop on Data Assimilation Systems & Observing System Experiments with Particular Emphasis on FGGE, I, pp 47-108, ECMWF & WMO, Reading, England.

1983 Twentieth Anniversary of the World Weather Watch: Opportunities and Outlook for an Improved WWW, WMO Publication No. 608, 29 pp, Geneva.

1982 Development of the operational program for satellite meteorology. Proc. of Session on Meteorological Satellites, 62nd Annual Meeting of the Am. Meteorol. Soc., NASA Conference Publ. 2257, pp 34-40.

1981 (with George Ludwig) Geostationary operational environmental satellite system performance. Adv. Space Res., Vol 1, pp 23-31.

1980 Status and plans for United States operational land remote sensing satellite services. Proc. U.N. Seminar on Remote Sensing Applications to Land-use Planning, pp L-14-1 to 13, Tokyo.