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QUALIFICATIONS SUMMARY

Life Fellow of IEEE with over forty years experience in NASA, DOD and commercial space programs. Strong background in satellite microwave remote sensing, space systems engineering and satellite system design and development. Developer of geophysical algorithms for microwave passive (radiometry) and active (radar scatterometry) microwave remote sensors for earth observations.

PROFESSIONAL EXPERIENCE

During his 25 years with the National Aeronautics and Space Administration, Dr. Jones began as a radio frequency engineer at Langley Research Center (LaRC) in 1962. From 1969 to 1974, he was the head of the Microwave Techniques Research Section, where he performed research with microwave radiometers and scatterometers for remote sensing of ocean geophysical parameters (sea surface temperature, salinity and surface wind vector). In 1975, he became the leader of the Radar Remote Sensing Group, and in this position, he served as the Seasat-A Satellite Scatterometer (SASS) Instrument Scientist (PI) and was responsible for the development of the first satellite microwave remote sensor for inferring ocean surface vector winds. After the launch of Seasat in 1978, Dr. Jones became the leader of the SASS Geophysical Evaluation Team and was responsible for the successful post-flight geophysical validation of SASS.

During his private aerospace industry career from 1981 through 1988, Dr. Jones worked as a communications subsystem project manager at the General Electric's Space Division in King of Prussia, PA and later at COMSAT's Satellite TV Corporation in Princeton, NJ. In 1984, he became a senior principal engineer at the Harris Corporation Aerospace Systems Division in Melbourne, FL and was engaged in advanced programs development for the microwave remote sensors product-line. In this position, he served as Harris' Sensor Scientist for the Naval Remote Ocean Satellite System (NROSS) Low Frequency Microwave Radiometer (LFMR) and the NASA Scatterometer (NSCAT) programs.

During the period of 1988 to 1992, he returned to federal government employment at NASA HQs as a Satellite Program Manager for the NASA Office of Space Science and Applications, Earth Science and Applications Division. Responsible for program formulation and execution, he served as the focal point for all Headquarters activities concerning the following remote sensing satellite missions: Topex/Poseidon, Earth Probes: TOMS EP-93, NASA Scatterometer (NSCAT), and Tropical Rainfall Measurement Mission (TRMM).

In 1992, Dr. Jones joined the Kennedy Space Center as Senior Staff to the Deputy Director of KSC Systems Integration (Level-2) organization of the Space Shuttle Program where he remained until his NASA retirement in May 1994.

Since 1994, Dr. Jones has been a full-time college professor teaching and performing research in earth science microwave remote sensing. He is a full professor in the School of Electrical Engineering and Computer Science at the University of Central Florida, Orlando, FL, where he is the Director of the Central Florida Remote Sensing Laboratory. He has been a science team member for the following satellite missions: (1975 – 1981) PI, SeaSat-A Satellite Scatterometer Science Team; (1994 – 1997) Validation Team Leader, NASA Scatterometer Science Team; (1995 – 2004) Member, Tropical Rainfall Measuring Mission Science Team; (1998 – present) Member Ocean Vector Winds (QuikSCAT) Science Team; (1999 – 2001) Core Team member, WindSat Science Team; (2005 – present) Precipitation Measurement Mission Science Team; and (2009 – present) Member, Sea Surface Salinity (Aquarius) Science Team.

EDUCATION

B.S.EE, Virginia Polytechnic Institute, Blacksburg, Virginia, 1962;

M.EE, University of Virginia, Charlottesville, VA, 1965;

Ph.D. (EE), VA Polytechnic Institute & State Univ., Blacksburg, VA, 1971

PUBLICATIONS

Dr. Jones has published extensively in remote sensing and geophysical applications. He has 45 refereed journal publications and over 260 conference presentations.