

**Dr. Kumar Krishen Celebrating Fifty Three Years in
Support of
Space Exploration Enterprise: 1964 – 2018**

The Journey: Places, Projects, & People

- **1976 – NASA Johnson Space Center (JSC)**
 - Earth observations using surface, aircraft, and satellite systems
 - Design, development, and testing of microwave systems
 - Development of data processing algorithms
 - Analysis of remotely sensed data
 - Technology development for innovative space systems
 - Communication and tracking
 - Robotics and automation
 - Mission support
 - Science mission sensors
 - Robotic and machine vision
 - Medical applications
 - Firefighting applications
 - Space applications study of revolutionary & game changing technologies
 - Technology planning and management
 - Teaching and research - space science and technology
 - Research and teaching at Kansas State University, Rice University, Virginia Tech, Delhi Technological University, & University of Houston
 - Guiding more than twelve post-doctoral, doctoral, and undergraduate Interns
 - Technology Transfer and Commercialization
 - From the time the Office was established in 1994 at NASA JSC to 2017



- **1969 – Lockheed Electronics Company, Houston** (Support contractor to NASA Johnson Space Center)
 - Sensing of Earth resources and phenomena using surface, aircraft, and satellite systems
 - Ocean surface parameters and wind
 - Ocean surface oil and other signatures
 - Crop estimation and condition
 - Soil moisture/hydrology
 - Earth resources estimation/inventory

- **1965 - Kansas State University**
 - Sensing (from Earth) of the electrical properties of Moon using microwave systems, under guidance of Dr. W. W. Koepsel for M.S thesis
 - NASA sponsored research
 - Received some guidance from Dr. Peter Beckman, Colorado University
 - Sensing of rough surface layers using electromagnetic wave scattering, under guidance of Dr. W. W. Koepsel for Doctoral dissertation
 - NASA sponsored research
 - Received some guidance from Dr. R. K. Moore, University of Kansas

- **1964 - Calcutta University**
 - Moon Relay Communication System
 - Doctoral research under Professor Dr. J.W.R. Griffiths, University of Birmingham, UK
 - Use of Moon as a passive reflector to communicate between two locations on Earth



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