SAVE THE DATE: August 6, 2019 12:30-1:30 PM
LOCATION: ESSIC Main Conference Room #4102
5825 University Research Ct, College Park, 20740
(WebEx  umd.webex.com / Meeting number: 735 565 140)

SEMINAR to be presented by:
Jack Kaye, Ph.D.
Associate Director for Research, Earth Science Division
NASA HQ – Science Mission Directorate

“Viewing Earth from Space: from Scientific Knowledge to Societal Benefits”

The vantage point of space provides a unique opportunity to see all the elements of the global Earth system – atmosphere, ocean, land surface, ice, biosphere – and how they interact with each other. The ability to characterize both natural processes and those caused by humans, as well as the ability to study processes on a range of time scales from days to decades, helps scientists characterize and understand earth system variability and its causes and effects, as well as allowing for improvements in predictive capability. With this information, Earth system scientists can work with partners in other federal and international agencies, academia, industry, and the non-profit sector to help anticipate and respond to both naturally-occurring and human-induced changes in the Earth system. In this talk, a review of how satellite-derived information, integrated together with complementary data from aircraft and surface based measurements and used in the context of Earth system models, is advancing our knowledge of the Earth and how the resulting information is being used by NASA and its interagency partners will be presented.

BRIEF BIOGRAPHY OF JACK A. KAYE

Dr. Jack Kaye currently serves as Associate Director for Research of the Earth Science Division (ESD) within NASA’s Science Mission Directorate (SMD). He has been a member of the Senior Executive Service since August, 1999, managing NASA’s Earth Science Research Program. Earlier positions in his more than 35-year career at NASA include being a Space Scientist at the Goddard Space Flight Center and Manager of the Atmospheric Chemistry Modeling and Analysis Program at NASA HQ. His academic training is in chemistry (B.S. Adelphi University, 1976; Ph.D., California Institute of Technology, 1982). He also held a post-doctoral research associateship at the US Naval Research Laboratory. As Associate Director for Research, Dr. Kaye is responsible for the research and data analysis programs for Earth System Science, covering the broad spectrum of scientific disciplines that constitute it.