Abstract
NASA’s Exploration Systems Development is building the agency’s crew vehicle, next generation rocket, and ground systems and operations to enable human exploration throughout deep space — a capability the world has not had for more than 40 years. The Orion spacecraft, Space Launch System (SLS) and a modernized Kennedy spaceport will support missions to multiple deep space destinations extending beyond our Moon, to Mars and across our solar system. This innovative approach aligns with NASA’s bold new mission to design and build the capability to extend human existence to deep space.

Mr. Smith will provide an overview on NASA’s Exploration Systems mission which focuses on the development of the next generation systems for human space exploration. The presentation will focus on the overall integration of SLS, Orion, and ground systems in support of human exploration beyond low Earth orbit.

Bio
R. Marshall Smith is the Senior Technical Integration Manager for Exploration Systems Development (ESD) Division, NASA HQ. In this position, Mr. Smith serves as the Deputy Director of Cross-program System Integration for ESD, and as the ESD Deputy Chief Engineer. He works closely with ESD and Program personnel to identify requirements, concept of operations, architecture, and technical issues associated with design, development, and operations of the integrated system (SLS, GSDO, Orion). Mr. Smith received his Bachelor of Science in Electrical and Computer Engineering from the University of Tennessee with a Master of Science in Electrical and Computer Engineering from Virginia Polytechnic Institute and State University. Mr. Smith has served NASA for over 30 years and has worked in flight simulation, aircraft system development, robotics spacecraft and for the past 10 years he has focused on human spaceflight. During this time he has served as the Langley Research Center lead for Ares activities, the Ares I-X System Engineering and Integration Chief, and as the Flight Test 2 Manager for Constellation. He has also worked on the SLS formulation team as well as working closely with ESD and the Programs during the formation of the cross-program integration activities.