

Stennis Space Center

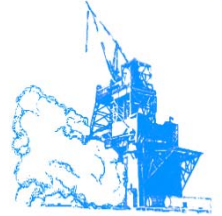
SSC Systems Engineering Development

Joe Schuyler – NASA SSC EA50

17-May-2012



SSC SE Development

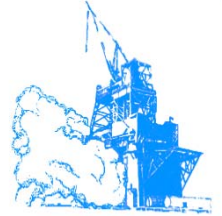


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- SE developmental programs at SSC
 - No formal SE development programs active at SSC
 - Required development for SE's guided at a minimum by SSC SPLN-3410-0001, "Personnel Training for the Engineering and Test Directorate"
 - Drives SE's to ensure all safety and technical mandated training is detailed
 - Many are driven by cryogenic test environment
 - Also requires APPEL Requirements and Risk Management course for all SE's
 - Informal SE training is restarting with a monthly Brown Bag Lunch series



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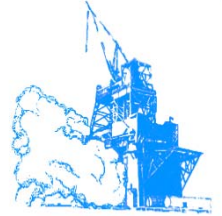


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- Brown Bag Lunch series
 - Monthly discussions on key elements of Systems Engineering
 - Configuration and Data management
 - Writing good requirements
 - Engineering reviews
 - Risk and Opportunity management
 - Decision Analysis
 - Integration
 - Verification and Validation
 - Peer reviews
 - Other topics may include problem resolution or process improvement activities related to current events at the test complex



SSC SE Development



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- SELDP Participation

- Current participant: Eric Ross at NASA Ames Research Center
 - Deputy Lead Systems Engineer for the EtherSat flight project
 - Developed Level 2 program and Level 3 project requirements, development of Verification and Validation Matrix, determining parent/child requirement relationships for subsystems, and producing systems engineering documentation such as a SEMP and change control documentation
 - Systems Engineer for the Small Spacecraft Payloads & Technologies Program
 - Development of a launch vehicle interface matrix, NLA grounding and shielding plans among other engineering documentation
- 2013 participant selected: Robert Gargiulo