

## Wednesday, November 9 - Morning

8:00 - 8:10 AM	8:10 - 8:55 AM	8:55 - 9:40 AM	9:40 - 10:25 AM	10:25 - 11:10 AM	11:10 - 11:55 AM
<b>SESSION P - PLENARY SESSION - Room 236</b>					
Conference Opening	Plenary 1 Space Systems Engineering at NRO	Plenary 2 Attributes of Outstanding Systems Engineers	Plenary 3 Engineering of Systems for Earth and Space Science	Plenary 4 MER: Stealing Success from the Jaws of Failure	Plenary 5 NASA's Exploration Systems Architecture Study Results
Dr. Robert Braun	Major General Robert Latiff, NRO	Gentry Lee, JPL	Steve Sandford, NASA LaRC	Rob Manning, JPL	Dr. Doug Stanley, Georgia Tech

## Wednesday, November 9 - Afternoon

1:00 - 1:30 PM	1:30 - 2:00 PM	2:00 - 2:30 PM	2:30 - 3:00 PM	3:00 - 3:30 PM	3:30 - 4:00 PM
<b>SESSION A - SYSTEMS ANALYSIS AND SYSTEMS ENGINEERING - Room 235</b>					
<p>GT-SSEC.A.1</p> <p>AdVISE - Advanced Vehicle Integration &amp; Synthesis Environment</p> <p>Ferlemann, Shelly and Rehder, Joe</p>	<p>GT-SSEC.A.2</p> <p>Space Vehicle Systems Analysis: MSFC Tools and Processes</p> <p>Alexander, Reginald,A.</p>	<p>GT-SSEC.A.3</p> <p>Collaborative Mission Design at NASA Langley Research Center</p> <p>Gough, Kerry</p>	<p>GT-SSEC.A.4</p> <p>Space Systems Engineering Professional Development and Certification</p> <p>Fisher, Gerard</p>	<p>GT-SSEC.A.5</p> <p>EyasSAT: A Revolution in Teaching Space Systems Engineering</p> <p>Barnhart, David and Bishop, Carly</p>	<p>GT-SSEC.A.6</p> <p>Systems Engineering Education Initiative at Georgia Tech</p> <p>Harrison, George</p>
<b>SESSION E - UNIVERSITY SESSION I - Room 233</b>					
<p>GT-SSEC.E.1</p> <p>Mars-back Approach to Moon-Mars Exploration System Commonality</p> <p>Wooster, Paul</p>	<p>GT-SSEC.E.2</p> <p>The Apollo Lunar Orbit Rendezvous Architecture Decision Revisited</p> <p>Reeves, David; Scher, Michael and Wilhite, Alan</p>	<p>GT-SSEC.E.3</p> <p>Designing Sustainable Launch Systems</p> <p>Silver, Matthew and de Weck, Olivier</p>	<p>GT-SSEC.E.4</p> <p>Crew Launch Vehicle (CLV) Independent Performance Evaluation</p> <p>Young, David; Krevor, Zachary; Street, David; Thompson, Robert; and Wilhite, Alan</p>	<p>GT-SSEC.E.5</p> <p>System Architecture Tools and Assumptions</p> <p>Reeves, David; Scher, Michael; Shidner, Jeremy; and Thomas, Paige D.</p>	<p>GT-SSEC.E.6</p> <p>Using Systems Engineering to Develop Responsive Logistics for Future Space Missions</p> <p>Gisele Bennett and Gary O'Neill</p>

## Thursday, November 10 - Morning

8:30 - 9:00 AM	9:00 - 9:30 AM	9:30 - 10:00 AM	10:00 - 10:30 AM	10:30 - 11:00 AM	11:00 - 11:30 AM
<b>SESSION F - UNIVERSITY SESSION II - Room 233</b>					
<p>GT-SSEC.F.1</p> <p>Planetary Probe Entry, Descent, and Landing Systems: Technology Advancements, Cost, and Mass Evaluations with Application to Future Titan Exploration Missions</p> <p>Chester Ong, Ben Bieber, Jennifer Needham, et al.</p>	<p>GT-SSEC.F.2</p> <p>Analysis of JPL Mission Cost Estimate Drivers</p> <p>Sebastian, Tommy</p>	<p>GT-SSEC.F.3</p> <p>A Solar-Powered Near-Earth Orbit Resource Extractor</p> <p>Rangedera, Thilini; Wanis, Sam; Shah, Nilesh; and Komerath, Narayanan</p>	<p>GT-SSEC.F.4</p> <p>Design and Operation of Micro-Gravity Dynamics and Control Laboratories</p> <p>Saenz-Oteroa, Alvar and Miller, Dave (presenter)</p>	<p>GT-SSEC.F.5</p> <p>An Auctioning Algorithm for Optimal Satellite Refueling</p> <p>Salazar-Kardoza, Alexandros and Tsiotras, Panagiotis</p>	<p>GT-SSEC.F.6</p> <p>The Space Propulsion Sizing Program</p> <p>Scher, Michael and North, David</p>
<b>SESSION D - EARTH SPACECRAFT AND SENSORS - Room 235</b>					
<p>GT-SSEC.D.1</p> <p>Design and Systems Engineering of AFRL's Demonstration and Sciences Experiment</p> <p>Cohen, Dan</p>	<p>GT-SSEC.D.3</p> <p>XSS-10 Mission Results and Lessons Learned</p> <p>Davis, Thom and Melanson, David</p>	<p>GT-SSEC.D.4</p> <p>Tacsat-3 Mission Results and Lessons Learned</p> <p>Davis, Thom and Str</p>	<p>GT-SSEC.D.5</p> <p>Systems Engineering Principles Applied to Basic Research and Development</p> <p>Anderson, Norman and Keel, Byron</p>	<p>GT-SSEC.D.6</p> <p>Use of Orthogonal Waveforms for Spacecraft Applications</p>	

Note: Paper GT-SSEC.D.2, "Demonstrations of a Medium Fidelity Simulation for Determining the Effects of Natural Backgrounds During Mid-Course Flight" was withdrawn

## Thursday, November 10 - Afternoon

12:30 - 1:00 PM	1:00 - 1:30 PM	1:30 - 2:00 PM	2:00 - 2:30 PM	2:30 - 3:00 PM	3:00 - 3:30 PM
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### SESSION B - SPACE TRANSPORTATION - Room 233

GT-SSEC.B.1	GT-SSEC.B.3	GT-SSEC.B.4	GT-SSEC.B.5	GT-SSEC.B.7	GT-SSEC.B.6
Automated Hypersonic Launch Vehicle Design Using ModelCenter	Comparison of Return to Launch Site Options for a Reuseable Booster Stage	Shuttle Derived Launch Vehicles: An Optimal Solution for Reaching the Moon and Mars	Simplifying Complex Problems with Systems Engineering Tools: A Lunar Architecture Analysis Case Study	National Security Space Enterprise Engineering	A Review of Technology Assessment Methods for Space Transportation Systems
Bradford, John and Eklund, Dean	Hellman, Barry	Furfaro, James and Johnson, Dennis	Percy, Tom	Hagemeier, Hal	Olds, John

Note: Paper GT-SSEC.B.2, "A Novel Halbach Array Maglev Numerical Dynamics Analysis and Control" was withdrawn.

### SESSION C - DEEP SPACE SYSTEMS - Room 235

GT-SSEC.C.1	GT-SSEC.C.2	GT-SSEC.C.3	GT-SSEC.C.4	GT-SSEC.C.5	GT-SSEC.C.6
Reconstruction of the Genesis Entry	Deep Impact Comet Encounter: Design, Development and Operations of the Big Event at Tempel 1	Impactor Spacecraft Encounter Sequence Design for the Deep Impact Mission	DIRE - Dactyl-Ida Rendezvous Experiment	SDO Ground System for Solar Dynamics Observatory Mission	Aerobraking Cost/Risk Decisions
Desai, Prasun	Rocca, Jennifer and Wissler, Steven	Kubitschek, Daniel	Pengelly, Stan; Adams, Brian; Platt, Don	Tann, Hun; Pages, Raymond; and Silva, Christopher	Spencer, David and Tolson, Robert