



Systems Engineering in Aerospace and Oil & Gas “A Renewal of Exploration”

**Thursday, May 3, 2018 – DoubleTree Hotel
4 Greenway Plaza, Houston, TX 77046**

*07:30 a.m. – Vendors/Exhibitors and Registration Opens: DoubleTree Hotel
Greenway Ballroom I/II*

08:00 – 08:30 a.m. – Light Breakfast

08:15 – 8:45 a.m. – Opening: Welcome and Introduction, Matt Johnson, Conference Chair

8:45 – 9:15 a.m. – Morning Keynote: Brian Hebert – VP Global Well Operations, BP

09:30 – 11:45 a.m. – Technical Presentations

	C-100 <i>Chair: Kevin Orr, Barrios Technology</i>	Shops Conference Room <i>Chair: Paul Schwartz, Barrios Technology</i>
9:30-10:00 a.m.	Tech Session 1: Digital Thread	Tech Session 2: Success Stories
	The Oil and Gas Digital Thread <i>Matthew Hause, MBSE Specialist, PTC</i>	Requirements Development and Management <i>Michael E. (Mike) Pafford, INCOSE; JHU</i>
10:05-10:35 a.m.	Systems Engineering – A Platform of Discipline and Digitization <i>Dr. Ben Amaba, IBM Watson & Cloud Platform</i>	SE Requirements Management: A Success Story for the Nuclear World <i>Blanca Montoya, Baker Hughes a GE Company</i>
10:40-11:10 a.m.	Drilling a Deepwater well is extremely complex... Does the process to design one have to be? <i>Ben Randell, Chevron Deepwater Gulf of Mexico</i>	Systems Engineering in the Development of the Orion Spacecraft <i>Mel Friant, NASA, Orion Program</i>
11:15- 11:45 a.m.	Multi-Objective Stochastic Optimization for Preventive Maintenance Planning <i>Christopher Gordon, Texas A&M University</i>	Accidental Systems Engineer <i>Ben Edwards, Jacobs Engineering</i>

12:00 – 1:15 p.m. – Luncheon, DoubleTree Hotel Greenway Ballroom I/II

12:30 – 1:00 p.m. – Lunch Keynote: Todd May, NASA Center Director of the Marshall Space Flight Center





1:30 – 3:45 p.m. – Technical Presentations

	C-100 <i>Chair: Abe Hudson, Barrios Technology</i>	Shops Conference Room <i>Chair: Jason Baker, Transocean</i>
1:30-2:00 p.m.	Tech Session 3: Modeling	Tech Session 4: Standards and Data Sharing
	Failure Mode Effects Analysis in MBSE <i>Ron Kratzke, Vitech Corporation</i>	Requirements Management - Expanding the Gate of the Gateway <i>Kevin Orr, Barrios Technology</i>
2:05-2:35 p.m.	Integrating MBSE into Ongoing Projects: Requirements, Validation, and Test Planning for the ISS SAFER <i>Antony Williams, Jacobs Engineering, Clear Lake Group</i>	Using Systems Engineering to Drive Innovation: A Case Study <i>Matt Johnson, SE Logix</i>
2:40-3:10 p.m.	Tech Session 5: Technical Risk	Tech Session 6: Test and Verification
	Bridging the Technical Safety Risk Gap from Aerospace to Oil & Gas <i>Tim Thornton, TFTConsulting</i>	Identification of Weak Signals to Prevent Emergent System Failures in Process Industries <i>Mengxi Yu, Texas A&M University</i>
3:15-3:45 p.m.	Systems Engineering Approach for Incident Analysis <i>Prerna Jain, PhD candidate, Texas A&M Univ., et al.</i>	What do the Terms Verification and Validation Really Mean? <i>Lou Wheatcraft, Requirements Experts, Seilevel</i>

3:45 – 4:15 p.m. – Afternoon Coffee/Snack break (DoubleTree Hotel Greenway Ballroom I/II)

4:15 – 4:30 p.m. – Closing Remarks: Jason Baker, President-elect, INCOSE Texas Gulf Coast Chapter (DoubleTree Hotel Greenway Ballroom I/II)

Dismissal: Matt Johnson, Conference Chair

4:30 – 5:00 p.m. – Networking: (DoubleTree Hotel Greenway Ballroom I/II)

5:00 p.m. Social – Sam Rayburn room (next to Ballroom), DoubleTree Hotel

Fri, 5/4/18: 9:30 – 11:30am – INCOSE CSEP Beta Paper Exam (C-20)

Photo Release

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