

Extravehicular Activity Technology Workshop Agenda

September 13-15, 2016

JSC Gilruth/Alamo Ballroom

Day 1 NASA: September 13, 2016

Breakout Rooms: Rio Grande and Discovery

8:00-8:45 am	Registration and Networking
9:00 am	Welcome and Opening Remarks- <i>Chris Hansen, Manager of the EVA Office</i>
9:15 am	EVA Technology Development Efforts Overview/Status- <i>Brian Johnson, EVA Exploration Office Manager</i>
10:15-10:30 am	Networking Break/ Sign up for 1:1's
EVA Operations	
10:30-10:45 am	<ul style="list-style-type: none"> EVA Operations Concept-<i>Jesse Buffington, EVA Strategic Planning and Architecture Lead</i>
10:45-11:15 am	<ul style="list-style-type: none"> EVA Mission Drivers and Metrics-<i>Natalie Mary, EVA Systems Engineer</i>
11:15-11:45 am	<ul style="list-style-type: none"> EVA Planetary Science-<i>Kelsey Young, Research Scientist</i>
12:00- 1:00 pm Lunch	Space Suit Art Project- Nicole Stott
EVA Hardware	
1:00-1:15 pm	<ul style="list-style-type: none"> EMU System-<i>Brian Johnson, EVA Exploration Office Manager</i>
1:15-2:30 pm	<ul style="list-style-type: none"> EVA Suit Technology Development-<i>Liana Rodriggs, Advanced EVA Development Project Manager</i>
2:30-2:45 pm	<ul style="list-style-type: none"> EVA Vehicle Interfaces-<i>Natalie Mary, EVA Systems Engineer</i>
2:45- 3:00 pm	Networking Break/ Sign up for 1:1's
EVA Hardware	
3:00-3:20 pm	<ul style="list-style-type: none"> EVA Tools-<i>A. Drew Hood, EVA Tools Project Manager</i>
3:20-3:40 pm	<ul style="list-style-type: none"> SBIR/STTR Project Statuses-<i>Cinda Chullen, EVA Technology Development and Small Business Innovation Research (SBIR)/Small Business Technology Transfer (STTR)</i>
Human System	
3:40-4:05 pm	<ul style="list-style-type: none"> Integrated EVA Human Research Plan-<i>Andrew Abercromby, Ph.D., EVA Scientist for the Biomedical Research and Environmental Sciences Division</i>
4:05-4:20 pm	<ul style="list-style-type: none"> EVA Human Health and Performance Benchmarking Study-<i>Jason Norcross, Human Research Program EVA Discipline Lead Scientist</i>
4:20-4:30 pm	<ul style="list-style-type: none"> Spaceflight Decompression Sickness Risk and Prebreathe Overview-<i>Jason Norcross, Human Research Program EVA Discipline Lead Scientist</i>
4:30- 4:40 pm	<ul style="list-style-type: none"> NASA Standard 3001 v2- Updates-<i>Andrew Abercromby, Ph.D., EVA Scientist for the Biomedical Research and Environmental Sciences Division</i>
Testing/Training	
4:45-5:00 pm	<ul style="list-style-type: none"> Training Facilities-<i>Scott Cupples, EVA Hardware Development Engineer</i>
5-7:00pm	Join us for a Networking Social

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Day 2 External Affiliates: September 14, 2016

Breakout Rooms: Rio Grande and Discovery

8:30-8:45 am	Registration and Networking
8:45 am	Welcome and Opening Remarks-TBD
Testing/Training 9:00-9:30am	<ul style="list-style-type: none"> Operational Field Testing for Human Exploration-<i>Dave Coan, EVA Exploration Systems Engineer</i>
EVA Operations 9:35-9:50 am	<ul style="list-style-type: none"> Operations Support System Development for Future EVA-<i>Matthew Miller, Georgia Institute of Technology</i>
9:50-10:00 am	Networking Break/ Sign up for 1:1's
EVA Hardware 10:00-10:15 am	<ul style="list-style-type: none"> Method for Evaluating Spacesuit PLSS Center of Gravity Influence on Mobility, Exertion and Efficiency-<i>Grant Schaffner, Stress Engineering Services, Inc.</i>
10:20-10:35 am	<ul style="list-style-type: none"> Controls, Displays and for Bioinstrumentation for EVA Operations-<i>David Akin and Kathryn McBryan, University of Maryland</i>
10:40-10:55 am	<ul style="list-style-type: none"> EMU as an Exploration Test Bed-<i>Mike Hembree, UTC Aerospace Systems</i>
11:00-11:15 am	<ul style="list-style-type: none"> Spacesuit Evaporator Absorber Radiator (SEAR) for Thermal Control and Water Conservation-<i>Michael Izenson, Creare LLC</i>
11:20-11:35 am	<ul style="list-style-type: none"> EVA Hardware Development at David Clark Company-<i>Shane Jacobs, David Clark Company</i>
11:40-11:55 am	<ul style="list-style-type: none"> Honeybee Robotics: Enabling Technologies for Human Exploration of Space-<i>Fredrik Rehnmark, Honeybee Robotics</i>
12:00-12:15pm	<ul style="list-style-type: none"> Advanced Liquid Cooling Garment Development-<i>Dennis Gilliam, Orbital Outfitters</i>
12:15- 1:00pm Lunch	Overview of NASA EVA Virtual Reality Training, Present and Future-<i>Eddie Paddock, Engineering Virtual Reality Technical Discipline Lead</i>
Human System 1:00-1:15 pm	<ul style="list-style-type: none"> SOUL(Satellite on Umbilical Line)the EVA Assistant-<i>Dan Williams, Busek Co. Inc.</i>
1:20-1:35 pm	<ul style="list-style-type: none"> Functional Apparel Design and Soft, Wearable Electronic Systems-<i>Lucy Dunn, University of Minnesota</i>
1:40-1:55 pm	<ul style="list-style-type: none"> Designing Integrated Wearable Technology Systems Through Biomechanics Modeling and Signal Mapping-<i>Leia Stirling, MIT</i>
2:00-2:15 pm	<ul style="list-style-type: none"> Suit-induced Injury: Protective Garment and Injury Monitoring-<i>Allison Anderson, CU Boulder</i>
2:20-2:35 pm	<ul style="list-style-type: none"> Remotely-controllable compression for EVA Suits and Space Medicine-<i>Brad Holschuh, University of Minnesota</i>
2:45-3:00 pm	Networking Break/ Sign up for 1:1's
Science and Research 3:05-3:20 pm	<ul style="list-style-type: none"> Advanced EVA Space Suit Enclosure Concept Analyses-<i>Nikolay Moiseev, Final Frontier</i>
3:25-3:40 pm	<ul style="list-style-type: none"> Small Business Collaboration and Research-<i>Gregory Quinn, UTC Aerospace Systems</i>