



EVA Technology Workshop

October 17-19, 2017

hosted by the NASA Johnson Space Center
sponsored by UTC Aerospace Systems

Are you developing EVA technologies?

Are you looking for opportunities to collaborate on new EVA technology development?

The Technology Collaboration Center is holding a 3 day EVA Technology Workshop, hosted by NASA Johnson Space Center, on October 17 to 19. At this NASA workshop, attendees will learn about NASA's latest plans for deep space exploration and next generation EVA (extravehicular activity/spacesuit) technologies.

On Day 1, presentations will provide an overview of NASA's deep space exploration plans and their needs for next generation EVA technologies.



On Day 2, in parallel technical track sessions on key technology areas, attendees will participate in interactive sessions to explore each of the technology areas.

On Day 3, the Day 2 technical session discussions will be summarized, with NASA presentations on the opportunities for collaboration with NASA on new EVA technology developments and projects. During the afternoon, attendees will be able to pre-schedule one-on-one meetings with NASA to explore potential collaborations and partnerships related to EVA technology.

Any organization with an interest in EVA or EVA-related technologies is encouraged to participate in this event and learn about NASA's next generation EVA needs and opportunities to work with NASA.

Registration for this event is through the TCC's EVA Technology Workshop registration page. Event tickets are \$100. TCC Members and members of the JSC Community (with an active NASA e-mail account) are eligible for \$50 member tickets. NASA civil servants are eligible for NASA pre-paid tickets.

This event will likely sell out, so please register early.

Please contact the TCC at 281-969-7801 for more information on event sponsorship opportunities.

Current event sponsors:

- Diamond: UTC Aerospace Systems
- Platinum: SGT, Inc.
- Silver: The Aerospace Corporation

PRELIMINARY AGENDA

Tuesday, October 17:

- 8:30 - Welcome
- 8:45 - EVA Architecture & Con Ops Overview with Respect to Latest NASA Human Exploration Strategies
- 9:20 - Deep Space Gateway (DSG) Mission & Stack Architecture
- 9:55 - Deep Space Transport & Mars Mission Architecture
- 10:30 - Networking Break
- 10:45 - Overview Generic Airlock Requirements & Government DSG Habitat Reference
- 11:20 - Overview FY18 Habitat Testing
- 11:55 - Lunch
- 1:00 - Overview Exploration Suit (xEMU) Lite Plan & Status
- 2:05 - Overview of EVA Human Health & Performance
- 3:10 - Overview Science & Exploration Analogs (NEEMO, HMP, ISRU)
- 4:15 - Day 1 Closing Remarks
- 4:30 - Networking Event
- 7:00 - Day 1 Adjourn

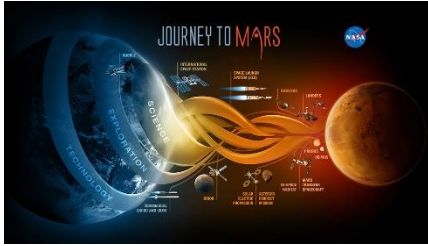
Wednesday, October 18:

- 8:30 - Welcome
- 8:40 - Guest Speaker
- 9:15 - Morning Parallel Technical Track Sessions:
 - > Suit Hardware
 - > Operations
 - > Human Health & Performance
- 12:25 - Lunch
- 1:15 - Afternoon Parallel Technical Track Sessions:
 - > Suit Hardware
 - > Operations
 - > Splinter Collaborations
- 3:55 - Intellectual Property Rights & Data Rights
- 4:35 - Day 2 Closing Remarks
- 4:45 - Day 2 Adjourn

Thursday, October 19:

- 8:30 - Welcome
- 8:45 - Summary of Technical Track Discussions
- 9:50 - Identifying NASA Technical Needs & Opportunities:
 - TA Roadmap Links to SBIR/STTR
- 10:40 - Accessing & Sharing EVA Human Research & Medical Data
- 11:30 - Beyond the Technical Team
- 12:20 - Closing Remarks
- 12:30 - Lunch
- 1:30 - Pre-Scheduled One-on-One Meetings with NASA
- 5:00 - Adjourn

About the Technology Collaboration Center



The TCC helps organizations solve difficult technology problems by encouraging innovation and formation of technology development partnerships, utilizing diverse expertise from industry, academic and government organizations, across technology sectors.

The TCC has two programs to support this mission:

TCC Events: A series of events assembling organizations from diverse fields to explore opportunities for solving difficult problems through new joint development partnerships, with a focus on strategic technology areas. Any organization can attend TCC events or request to make a presentation related to the event's topic area. The TCC also partners with other organizations on events related to potential collaborations for solving technology challenges.

- 2017: April 11 – Omics Workshop, hosted by NASA at the Johnson Space Center
- June 14 – Additive Manufacturing & Advanced Materials Workshop, hosted by NASA JSC
- August 24 – Automation & Robotics Workshop, hosted by Rice University
- October 3 – Data Analytics Workshop, hosted by Rice University
- October 17-19 – EVA Technology Workshop, hosted by the NASA Johnson Space Center
- 2016: April 26 – Wearable Technologies, at the NASA Johnson Space Center
- September 21 – Radiation Technologies, at the NASA JSC
- October 12 – Remote Sensing Technologies, at the NASA JSC
- 2015: Air Quality, Knowledge Management
- 2014: Water Quality, Robotics, Telemedicine, RFID, Batteries
- JSC Connect Events (prior to launch of the TCC)

Collaboration Concierge Service: The TCC provides assistance to organizations with unmet technology challenges, helping to find new innovations and establish joint technology partnerships, solving these difficult challenges and bringing the solutions to market. Any organization can submit a Collaboration Request or Response to the TCC.

The TCC offers several types of [membership](#) with an annual cash or in-kind contribution (starting with Individual Memberships for \$100 per year), providing preferred access to the TCC's programs and an opportunity to help determine the future direction for the TCC. Depending upon membership level, event tickets & program fees are waived or discounted, and members have an opportunity to have representatives serve of the TCC's Board of Directors, Advisory Council or on the Collaboration Concierge Service's Review & Solutions Panels.