

## JSC/EC5 Spacesuit Knowledge Capture (KC) Series Synopsis

All KC events will be approved using NASA Form 1676.

*This synopsis provides information about the Knowledge Capture event below.*

**Topic:** NASA Mars Science Laboratory Rover

**Date:** March 21, 2017   **Time:** 1:00 p.m. – 2:00 p.m.   **Location:** JSC/B29/CR118

**DAA 1676 Form #: 38689**

This is a link to all lecture material <\\js-ea-fs-03\pd01\EC\Knowledge-Capture\FY17 Knowledge Capture\20170321 SIPI Olson MSL Rover Mission\1676 Slides & Videos for Slides>

### **Assessment of Export Control Applicability:**

This presentation has been reviewed by the EC5 Spacesuit Knowledge Capture Manager in collaboration with the author and is assessed to not contain any technical content that is export controlled. It is requested to be publicly released to the NASA Engineering and Safety Center (NESC), JSC Engineering Academy, as well as to STI for distribution through NTRS or NA&SD (public or non-public) and YouTube viewing.

\* This file is also attached to this 1676 and will be used for distribution.

*For 1676 review Synopsis Olson MSL Rover 3-21-2017.docx*

**Presenter:** Dr. Tim Olson

**Synopsis:** Since August 2012, the NASA Mars Science Laboratory (MSL) rover Curiosity has been operating on the Martian surface. The primary goal of the MSL mission is to assess whether Mars ever had an environment suitable for life. MSL Science Team member Dr. Tim Olson will provide an overview of the rover's capabilities and the major findings from the mission so far. He will also share some of his experiences of what it is like to operate Curiosity's science cameras and explore Mars as part of a large team of scientists and engineers.

**Biography:** Dr. Tim Olson has been a faculty member at Salish Kootenai College in Pablo, Montana since 1995, where he teaches physics, astronomy, engineering, mathematics, and information technology. He earned a bachelor's and master's degree in physics from the University of Minnesota, and a Ph.D. in physics from Montana State University. His research interests include planetary science, relativistic astrophysics, and scientific instrumentation development. He is a member of the NASA Mars Science Laboratory Science Team, a co-investigator for the Mast Camera (Mastcam), Mars Hand Lens Imager, and Mars Descent Imager cameras on the Mars Science Laboratory rover, and a Payload Uplink Lead for Mars surface operations of the Mastcams. He is the principal investigator for BisonSat, a small satellite that has operated in Earth orbit since August 2015, and was designed and built by Salish Kootenai College students and faculty.

### **EC5 Spacesuit Knowledge Capture POCs:**

Cinda Chullen, Manager

[cinda.chullen-1@nasa.gov](mailto:cinda.chullen-1@nasa.gov)

(281) 483-8384

Vladenka Oliva, Technical Editor (Jacobs)

[vladenka.r.oliva@nasa.gov](mailto:vladenka.r.oliva@nasa.gov)

(281) 461-5681