

JSC/EC5 U.S. Spacesuit Knowledge Capture (KC) Series Synopsis

All KC events will be approved for public using NASA Form 1676.

This synopsis provides information about the Knowledge Capture event below.

Topic: Near-Earth Asteroids: Threats and Opportunities

Date: July 31, 2013 **Time:** 11:30-1:00 pm **Location:** JSC/B5S/R3102

DAA 1676 Form #: 30750

A PDF of the presentation is also attached to the DAA 1676 and this is a link to all lecture material and video: <\\js-ea-fs-01\pd01\EC\Knowledge-Capture\FY13 Knowledge Capture\20130731 Love Near-Earth Asteroids\For 1676 Review and Public Release>.

*A copy of the video will be provided to NASA Center for AeroSpace Information (CASI) via the Agency's Large File Transfer (LFT), or by DVD using the USPS when the DAA 1676 review is complete.

Assessment of Export Control Applicability:

This Knowledge Capture event 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 JSC Engineering Academy, as well as to CASI for distribution through NTRS or NA&SD (public or non-public) and with video through DVD request or YouTube viewing with download of any presentation material.

Presenter: Dr. Stan Love

Synopsis: Dr. Stan Love's presentation reviewed the basics of NEAs: how many there are, how likely they are to hit the Earth, ways to prevent a threatening asteroid from hitting us, and some thoughts on human exploration of these interesting objects.

Biography: Dr. Stan Love is a NASA astronaut at the Johnson Space Center. He served as a crew member and spacewalker on space shuttle flight STS-122 in 2008 and worked as a Capcom for many shuttle and International Space Station missions. He has participated in numerous terrestrial spaceflight analog expeditions, including two Antarctic field seasons with ANSMET. He previously worked as a spacecraft engineer at Jet Propulsion Laboratory and as a postdoctoral researcher in planetary science at Caltech and at the University of Hawaii. He holds a bachelor's degree in physics from Harvey Mudd College, and a master's and doctorate in astronomy from the University of Washington.

EC5 Spacesuit Knowledge Capture POCs:

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