SMCAS General Meeting and Presentation on Friday December 2, 2016

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Mars Trek: Powerful Online Tools for Exploring Mars

Friday, December 2, 2016 , College of San Mateo, Building 36
SMCAS General meeting at 7:00 p.m. ISC Room, room 110
Presentation at 8:00 p.m. Planetarium
Free and open to the public, free parking.

NASA's Mars Trek web portal provides a powerful new way to visualize and analyze data returned from Mars by a range of instruments aboard a number of spacecraft. Mars Trek's wealth of data, advanced capabilities, and easy to use interface make it useful for the general public and students, as well as for mission planners and planetary scientists. In this presentation, we will focus on how to use Mars Trek to explore the spectacular landforms of Mars, examine current and past sites of robotic exploration, and look ahead to proposed sites for human missions to Mars now being planned. The audience will learn to use Mars Trek's tools, including generating custom 3D prints of the Martian surface.

Brian Day works at NASA's **Solar System Exploration Research Virtual Institute** where he serves in lead positions for lunar and planetary mapping and modeling, citizen science, and outreach. He is a member of the site selection & analysis teams for the Resource Prospector and Lunar Mission One missions to the Moon, and is supporting analysis of potential human landing sites on Mars. Brian was the EPO Lead for NASA's LCROSS and LADEE lunar missions. Brian has participated in a number of NASA Mars Analog Field Studies working in extreme environments here on Earth that share some characteristics with Mars. In 2007, he flew on the Aurigid-MAC mission to record fragments of comet Kiess entering Earth's upper atmosphere.