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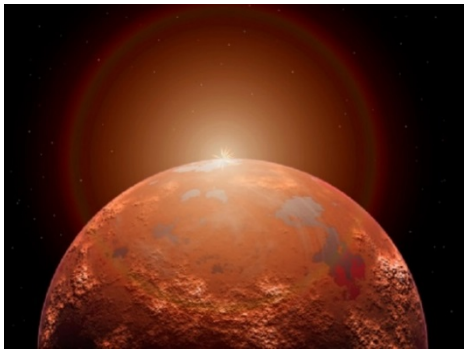
NEW Lecture ● *NEW* Topic

(Not included in our Fall 2016 Class Schedule!)



Space Resources and the Trip to Mars

Instructor: Dr. Peter Swan
1 session: Tuesday, Dec. 13, 2016
10:00 – 11:30 a.m.
ASU West campus, Sands Bldg. Classroom 131
4701 W. Thunderbird Rd., Phoenix, AZ 85069

Lecture:
Who will go to Mars, and how many will undertake the colonization project that ambitious space programs want to start in 2022? Currently, there are four competing ideas of how to begin the Mars colonization process: Elon Musk colonizing up to a million people by the turn of the century, Lockheed Martin and their MARS Basecamp, Boeing and their large rocket boosters, and MARS ONE human settlement with one-way trips. A description of each vision with proposals about how to make it a reality will be outlined, along with what is needed to accomplish the series of missions, including the experience and skillsets necessary for leveraging space mineral resources. Several questions need to be asked and answered, and additional concepts must be considered before making a colonizing voyage to Mars.

Instructor:
Peter Swan, PhD
Dr. Swan is the International Space Elevator Consortium's President and one of the lead editors/authors for the International Academy of Astronautics studies. A member of the National Space Society and a fellow of the British Interplanetary Society, Dr. Swan has over 45 years of space systems engineering expertise, has built space systems – such as the IRIDIUM constellation –, and has taught space systems engineering as an industry professor around the world. Many of the classes he taught are required for certification with NASA and the NRO. Dr. Swan is a co-author of over ten books and published over five times, to include "Space Elevator Systems Architecture." His doctoral studies focused on space tethers and their dynamics during the early years of excitement about asymmetric spacecraft.

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