

2012-2013 SYNTHESIS UNIT

SPACE: WHERE ARE WE GOING?

MONDAY, JANUARY 28, 2013

- 8:00 a.m. Levi Maaia, Anacapa School Teacher and Synthesis Unit Coordinator
Space: Where Have We Been?
- 9:00 a.m. Matteo Cantiello, Ph.D., Research Fellow, Kavli Institute for Theoretical Physics, UCSB
Stars: Life, Death, and the Origin of Elements
- 10:00 a.m. Danica Marsden, Ph.D., Postdoctoral Researcher, Department of Physics and Astronomy, UCSB /
Keck Institute for Space Studies, California Institute of Technology and Jet Propulsion Laboratory
Telescopes and the Universe
- 11:00 a.m. Philip Lubin, Ph.D., Professor, Department of Physics, UCSB
Origin, Evolution, and Fate of our Universe - Current Status
- 1:00 p.m. **FILM:** When We Left Earth
Episode 5: The Shuttle
- 2:00 p.m. Richard Linnehan, D.V.M., Astronaut, NASA
Life as an Astronaut
- 7:00 p.m. **PUBLIC PRESENTATION, Faulkner Gallery, Santa Barbara Public Library**
Richard Linnehan, D.V.M., Astronaut, NASA
The Future of Human Spaceflight

TUESDAY, JANUARY 29, 2013

- 8:00 a.m. Kristy Johnson, Astronomy Instructor, Department of Earth and Planetary Sciences, SBCC
Ancient Astronomy: The Intersection of Heaven and Earth
- 9:00 a.m. Michael Johnson, Graduate Student, Department of Physics, UCSB
Pulsars and the Search for Little Green Men
- 10:00 a.m. Nathan Walker, Design Engineer, ATK Space
How to Power Your Spaceship
- 11:00 a.m. **FIELD TRIP:** Vandenberg Air Force Base
Larry Hill, Chief, Community Relations, 30th Space Wing, Vandenberg Air Force Base

WEDNESDAY, JANUARY 30, 2013

- 8:00 a.m. Jack Stuster, Ph.D., Principal Scientist, Anacapa Sciences
Getting Along in Space: Results of the Journals Flight Experiment
- 9:00 a.m. Members of the Anacapa Near Space Exploration Club (ANSEC)
Contacting the International Space Station (ISS) with Ham Radio
- 10:00 a.m. Michael McGee, Surveying Engineer and Consultant, McGee Surveying Consulting
Mapping the Earth from Space
- 11:00 a.m. Derek Dunn-Rankin, Ph.D., Professor and Chair, Department of Mechanical and Aerospace
Engineering, University of California, Irvine
Flames in Space: Microgravity Combustion Science
- 1:00 p.m. Warren Rogers, Ph.D., Professor, Physics Department, Westmont College
Creation of the Elements in Stars
- 2:00 p.m. Eric Belle, Systems Engineer, Raytheon Company / International Council on Systems Engineering
Space-Based Remote Sensing Systems

7:00 p.m. **STARGAZING PARTY! on Anacapa School Campus**

Chuck McPartlin, Outreach Officer, Santa Barbara Astronomical Unit