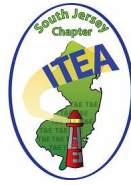


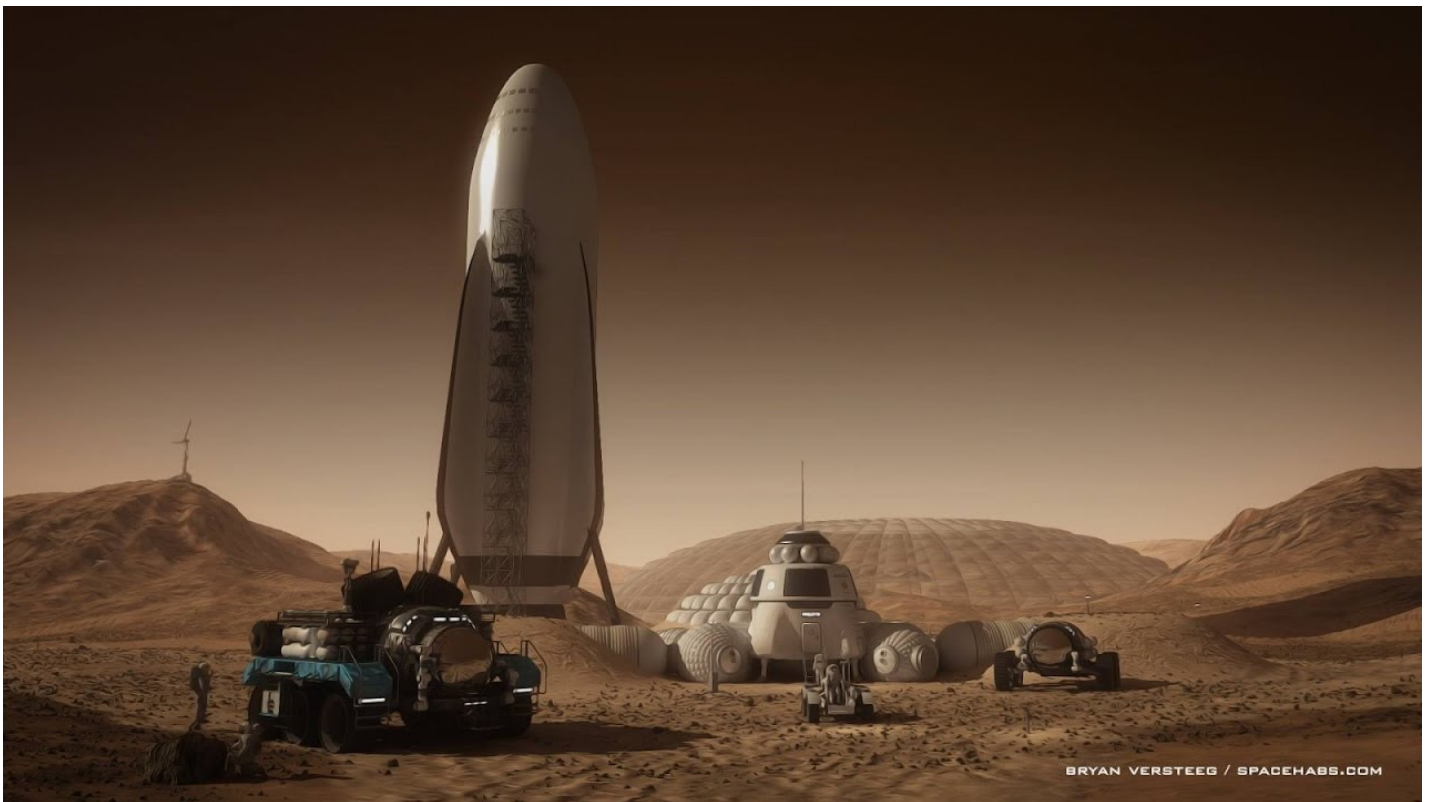
The Southern New Jersey Professional Societies



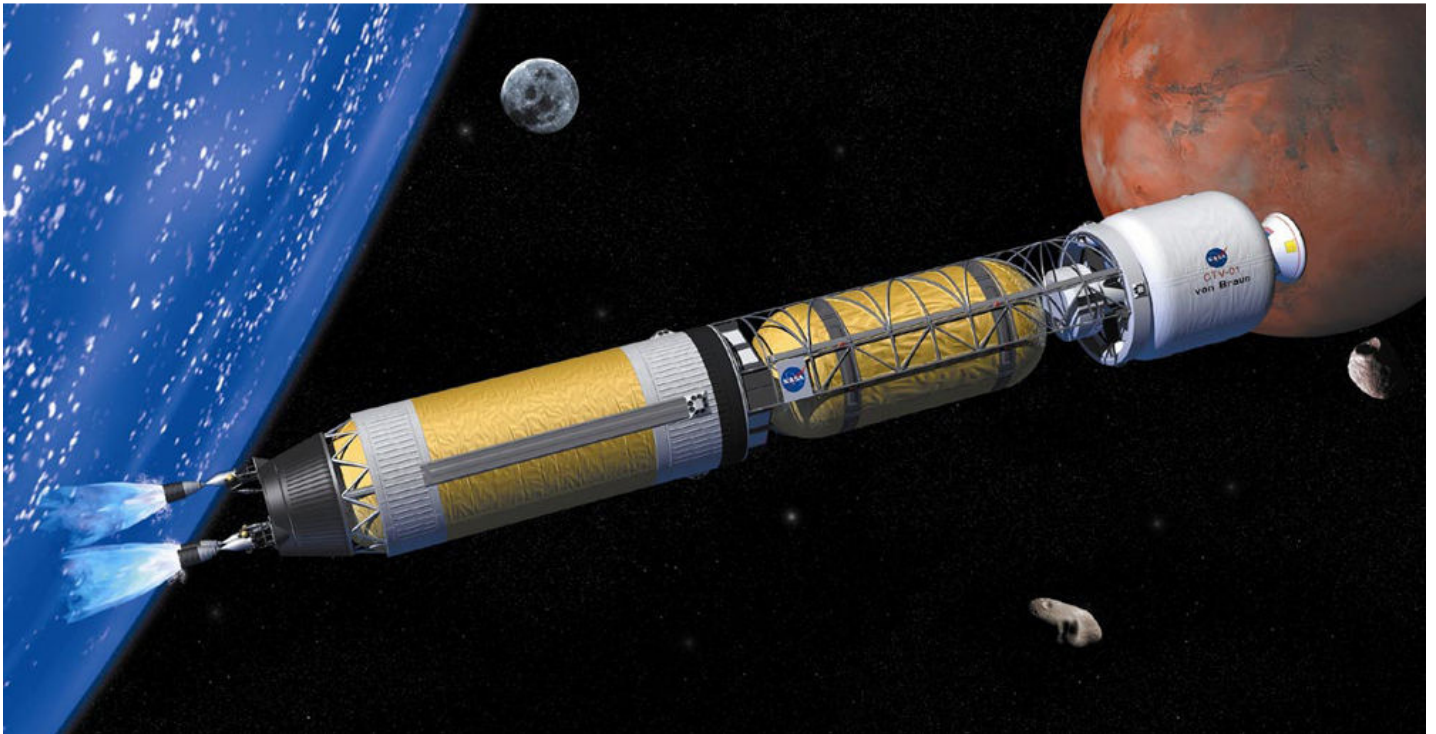
Presents:

"Sleep, Circadian Rhythms and Cognitive Performance on a Human Mission to Mars"

Dr. Mathias Basner, MD, PhD, MSc, Univ. of Pennsylvania



The timeframe of a manned mission to Mars is well beyond the duration astronauts and cosmonauts have remained confined in either a spacecraft or space analog environment. Long-duration exploration missions are characterized by high crew autonomy and prolonged periods of isolation and confinement. Behavioral health risks are among the most serious unmitigated risks of such missions, and there is a critical need to predict the time course, magnitude, and individual variability in behavioral and affective reactions of space explorers. The presentation will focus on sleep, circadian rhythms and cognitive performance in 24 astronauts during 6-month International Space Station (ISS) missions, and on individual differences in behavioral and psychological reactions of a multinational, culturally diverse, all-male crew of 6 who were participating in the first ground-based, high-fidelity simulated 520-day mission to Mars.



Wednesday January 18, 2017

Location: Blue Heron Pines Golf Club

550 Country Club Dr, Egg Harbor City, NJ 08215

(609) 965-1800 Check their website for directions: www.blueheronpines.com

TIME: Social Time: **6:00 PM** Dinner: **6:30 PM** Speaker Approx: **7:45 PM**

MENU: Buffet style dinner

COST: \$19 AIAA/IEEE/INCOSE Members, \$23 ITEA/NSBE/HFES/Guests, \$15 Students

Reservations due by noon Tuesday, Jan 17

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