



# AIAA Houston section presents



## dinner meeting featuring Dan Adamo

Why would it make sense to send humans more than 99% of the way to an off-Earth exploration destination like Mars without putting "boots on the ground"? How can average speeds achieved by robotic Mars rovers, typically a leisurely 0.4 meters per hour, be dramatically increased? This 1.5-hour lecture will answer these questions by suggesting humans operate in synergy with nearby robotic systems as a game-changing space exploration strategy. When command/feedback delays between human explorers and their robotic proxies are reduced sufficiently, today's user interface technology can impart multi-sensory impressions of "being there", a state of cognizance called low-latency telepresence (LLT). Using LLT-based strategies, impressive exploration productivity gains are realizable, together with reduced programmatic cost and risk, when compared to more conventional exploration strategies based on the Apollo Program circa 1970. These benefits accrue regardless of whether humans orbit above or loiter on/beneath a nearby exploration region.

