

## Theodore Stern Bio

Mr. Stern has 30 years of experience in the research and development of aerospace power and structural systems. His expertise in the areas of advanced photovoltaic systems includes solar concentrators, electromagnetically clean solar arrays, and solar panel interactions with harsh space environments, transitioning these technologies to flight. Concentrator technologies were demonstrated on the Survivable Power Subsystem (SUPER) and FAST concentrator arrays, and the electromagnetically clean solar array technology was implemented as a key enabler for NASA's THEMIS and MMS missions.

Ted's expertise in composite structures includes the development of the highly accurate and dimensionally stable composite implementation of the submillimeter reflector for the Microwave Limb Sounder instrument on NASA's Aura mission. He was also instrumental in the development of advanced solar array structures, including those which flew on the SCARLET solar concentrator array on Deep Space 1 mission, and the deployable Stardust solar arrays which supported massive Whipple shields to protect them from cometary dust and debris.

Mr. Stern received his B.S.E. from Princeton University in Electrical Engineering and Computer Science, and his Masters of Engineering from the University of California in Electrical Engineering. His credits include 15 patents and numerous published papers, and he has served as an Instructor for the AIAA Space Power Systems Design course, and on the Aerospace Power Systems Technical Committee. He was the recipient of the AIAA Aerospace Power Systems Award for 2016.

