



NASA LM on the Moon

**AIAA/IISE/ASME/ISA/IEEE(AESS)
Joint Zoom
Section Meeting
Co-sponsored by
the Cradle of Aviation Museum**

Thursday, May 18, 2023

**Mr. John Connolly
Human Landing System (HLS) Program
NASA Artemis Team**



SpaceX Starship Human Landing System as it will look on the Moon

“Landing on the Moon: From the LM to HLS”

Location: Cradle of Aviation Museum
Charles Lindbergh Boulevard
Garden City, New York
+ Zoom for those who cannot attend

RESERVATIONS REQUIRED
RSVP BY May 17, 2023
to davidsparis@twc.com
or **(516) 458-8593**

Time: 6:30 PM Social Time
7:00 PM Presentation

Cost: Free for Everyone

In the 50+ years since the final Long Island-built Lunar Module landed on the Moon, NASA has continued to mature lander designs for humans to return to the lunar surface. With the lessons of Apollo, and over 100 lunar lander studies in hand, NASA is now embarking on the successor to the Apollo program – Artemis – with a Human Landing System (HLS) that seems to bear little resemblance to the venerable LM. But beneath the surface, the functions that the HLS must perform are almost identical to the Apollo LM, with technology advances shaping the state of the art in 21st century human landers.

John Connolly is a member of NASA’s Artemis team and Human Landing System Program, executing the return of astronaut explorers to the moon. His 36 years of NASA expertise includes lunar lander design, lunar surface systems, and human Mars mission planning. Connolly has held positions as NASA’s Lunar Surface Systems lead, Human Mars Study Team lead, HQ Chief Exploration Scientist, Special Assistant to Johnson Space Center’s Astronaut Office, and Deputy Project Manager and Vehicle Engineering Manager for the Altair Lunar Lander Project (during which time he met frequently with Grumman’s Bethpage LM veterans). He holds engineering degrees from Penn State and the University of Colorado. Mr. Connolly’s NASA career has been devoted to defining future systems that will send human crews beyond Low Earth Orbit, return them to the moon, and lead them to Mars and beyond.

Directions for in-person attendance: Meadowbrook Parkway to exit M4, follow signs to Museum Row which will put you on Charles Lindbergh Blvd. Stay on Lindbergh Blvd. to the second traffic light and turn right into the Cradle’s parking lot.

Directions for Zoom: Click on the link in the meeting invitation you will receive after signing up for the meeting.