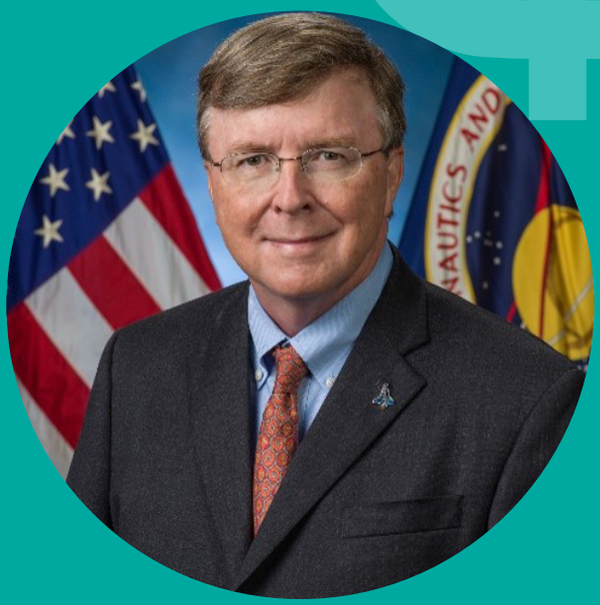

JOHN H. SCOTT

Friday, 8 December 2023
14.00

Belfort, UFR-STGI Louis Néel Salle 302*

John Scott currently serves as the Principal Technologist for Power and Energy Storage in the Space Technology Mission Directorate at NASA Headquarters. After beginning his aerospace career in propulsion at TRW Space & Technology (now a division of Northrup Grumman), Mr. Scott has served at NASA's Johnson Space Center for over thirty years in engineering, project management, and supervisory positions in support of the Space Shuttle, International Space Station, Orion, and various Human Exploration study programs. Immediately prior to his current posting, he served as Chief of the Energy Conversion Branch and as Chief Technologist in the Propulsion and Power Division at NASA-Johnson.

As Principal Technologist and a senior leader, John leads a nationwide team in advancing the power and energy storage technologies needed to accomplish NASA's goals for space exploration and to accelerate the growth of the commercial space industry.

Mr. Scott is a published author on spacecraft fuel cell and nuclear power systems. He holds a BS in Mechanical Engineering from Rice University and an MS in Mechanical Engineering and an MBA from UCLA.

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NASA

Toward an Electric Power Utility on the Lunar Surface

A **sustainable human presence** on the Lunar surface is one of the key objectives of **NASA's Moon2Mars program**, and the **provision of electric power on the Lunar surface** is required to reach this objective.

NASA envisions a **Lunar surface power system** growing through essentially three phases:

a **NASA-led system** supporting the Artemis campaign elements **near the Lunar South Pole,**

an **industry-led grid supporting industrial-scale production of propellant** near the Pole,

and **a very large scale, industry-led system** supporting a range of **industrial and scientific activities across the Lunar surface.**

NASA has identified the **"building-block" technologies** which must be advanced to practice in order to enable this phased development. Success in **technology advancement** and in **the marshaling of private capital** will enable the **power utility needed to develop the Moon** "….pour le bien de l'Humanité."

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