

National Science Priorities

For questions, email:

Surendra Sharma
Space Exploration IC

CONTRIBUTORS

- » **Amir Gohardani**
International Rectifier
- » **David Dress**
NASA Langley
- » **Tucker Hamilton**
USAF
- » **Chris Moore**
NASA Headquarters
- » **Scott Palo**
Univ. of Colorado
Boulder
- » **Elaine Petro**
MIT
- » **Brian Pomeroy**
Sierra Nevada Corp.
- » **Virendra Sarohia**
NASA JPL
- » **Surendra Sharma**
NASA Ames

Throughout human history, we have pondered the great mysteries, such as the formation of the universe and our solar system, the existence of life on other planets, and how we can better understand the complex systems of the Earth. Within the past century, however, advances in space technology have allowed us to make great leaps in our understanding of these and other scientific frontiers.

As we seek to further accelerate the growth of the space economy and make strides toward our off-world future, it is imperative that we leverage the resultant new technologies and capabilities to continue to address the most crucial scientific questions that remain unanswered. This topic seeks to focus attention on these questions, as prioritized by the scientific community in publications such as the U.S. decadal surveys, and to identify opportunities and challenges that can be addressed through increased activities and human presence in space.

Topics of interest include, but are not limited to:

- » Addressing Global Climate Change
- » Decadal Survey Mission Concepts
- » Exoplanets and Astrobiology
- » Hosted Payloads
- » Instrument Design and Development
- » Mission to Planet Earth
- » Planetary Protection
- » Science Enabled by Human Exploration
- » Sensor Design/Development
- » Space Weather
- » Technology Gaps for Planned Science Missions
- » Remote Sensing
- » Weather Observation and Prediction