



# 9<sup>th</sup> JOINT MEETING

**SPACE RESOURCES  
ROUNDTABLE**

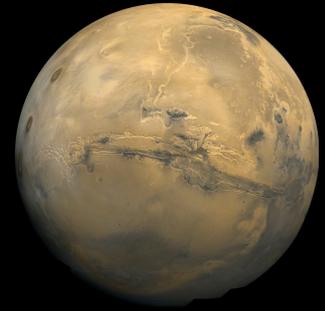
**PTMSS**

Planetary & Terrestrial Mining Sciences Symposium

Colorado School of Mines  
June 12-15, 2018



**Mike Duke**



**“A recoverable resource,  
technology to recover it,  
and a customer.”**

**SRR I, 1999**



# SRR-PTMSS Technical Committee



**Leslie Gertsch (MST)**



**George Sowers (CSM)**



**Dale Boucher (Deltion)**



**Angel Abbud-Madrid (CSM)**



**Stephen Mackwell (USRA)**



**Sherry Schmidt (Deltion)**



## New policy directive implements commercial space regulatory reforms



spoke about improving technology and returning to the moon to harvest resources, among other topics on the future of space travel for the U.S.

## That Moon Colony Will Be a Reality Sooner Than You Think

**By Wilbur Ross**

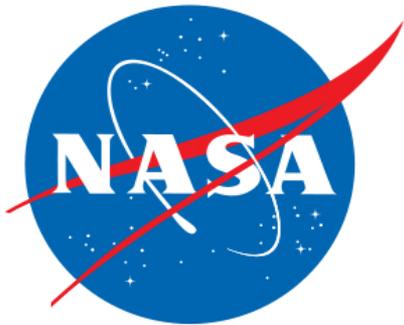
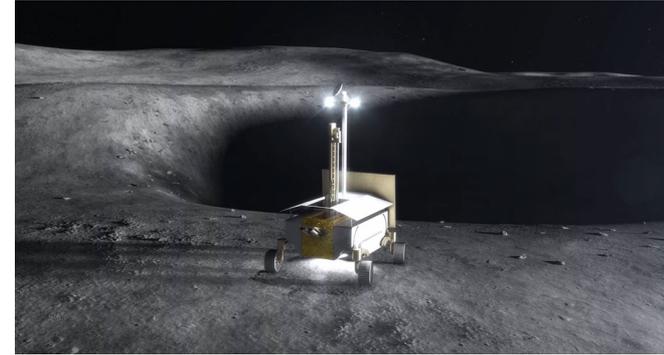
Mr. Ross is the secretary of commerce.





## Mars 2020

### Resource Prospector (Cancelled)

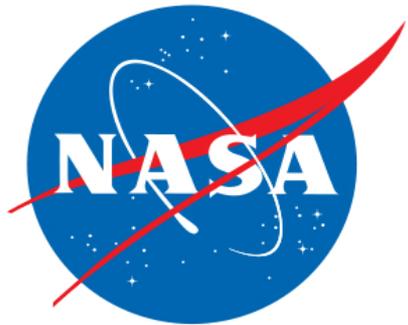




OSIRIS-REx



Lucy



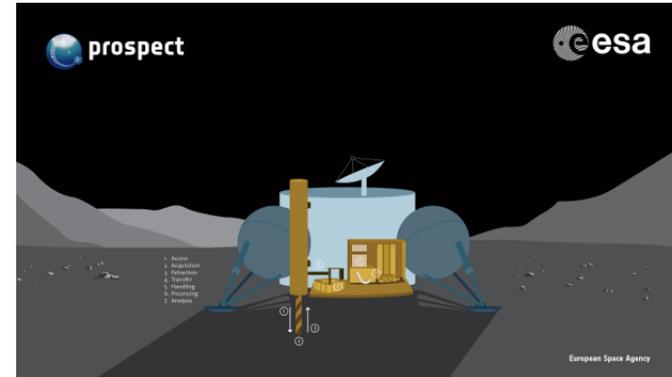
Psyche



United Arab Emirates

وكالة الإمارات للفضاء  
UAE SPACE AGENCY

## LUXEMBOURG AND THE UNITED ARAB EMIRATES SIGN MOU ON SPACE RESOURCES

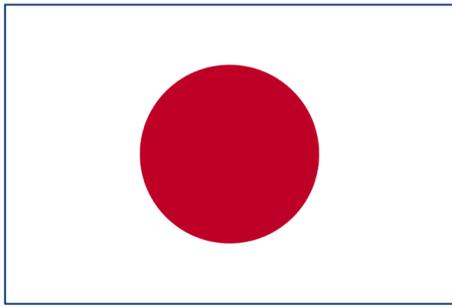


### WORKSHOP: TOWARDS THE USE OF LUNAR RESOURCES

3-5 July 2018

European Space Research Technology Centre (ESTEC)

Noordwijk, the Netherlands



With Sights Set Firmly On The Moon,  
Japan Announces Nearly \$1 Billion For  
Startups In Space Exploration

## India Is Sending a Rover to the Moon in 2018

Time to prep for colonization.

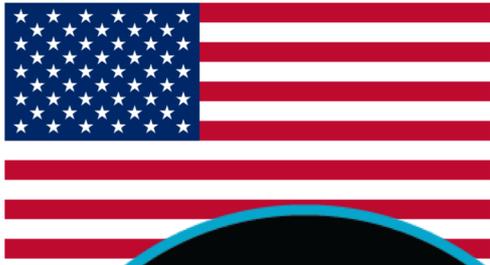


South Korea's first lunar mission planned  
for 2020



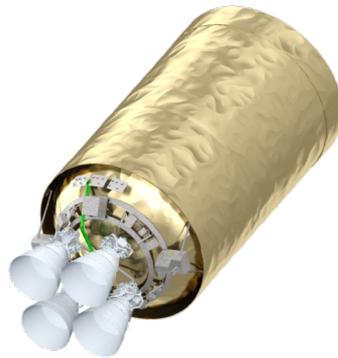
World

Russia Teaming Up With China For Moon And  
Deep Space Exploration



# The Hague International Space Resources Governance Working Group





## Elon Musk: In Seven Years, SpaceX Could Land Humans on Mars

The entrepreneur's updated plan calls for a giant rocket that could send humans to Mars—and possibly the moon—by 2024.



## Jeff Bezos details his moon colony ambitions

Devin Coldewey @techcrunch / May 27, 2018



**HONEYBEE** ROBOTICS  
Spacecraft Mechanisms Corporation

**DSI**  
DEEP SPACE INDUSTRIES

**PLANETARY**  
RESOURCES

**ASTROBOTIC**

moon express  
**me**  
the moon is me

**Deltion**  
Innovations Ltd

spaceapplications  
SERVICES

**CisLunar** Industries

**ATEN**  
ENGINEERING

TRANS  
**ASTRA**

**MADE  
IN SPACE**

**SHMZ**

**PARAGON**  
SPACE DEVELOPMENT CORPORATION

**BLUESHIFT**

**ATOMOS**  
NUCLEAR AND SPACE

**Lunar Outpost**

**i s p a c e**

**OFFWORLD**

**PIONEER**  
ASTRONAUTICS

**air**squared

**Advanced**  
SPACE

**THERMAL**  
SPACE



# SPACE RESOURCES PROGRAM

COLORADO SCHOOL OF MINES

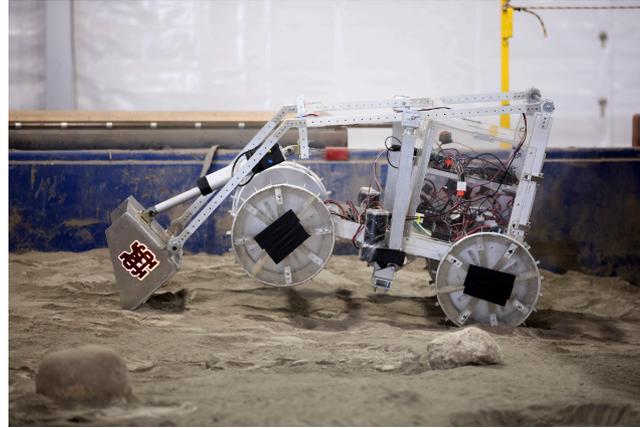


“... educating scientists, engineers, economists, entrepreneurs, and policy makers in the developing field of space resources.”

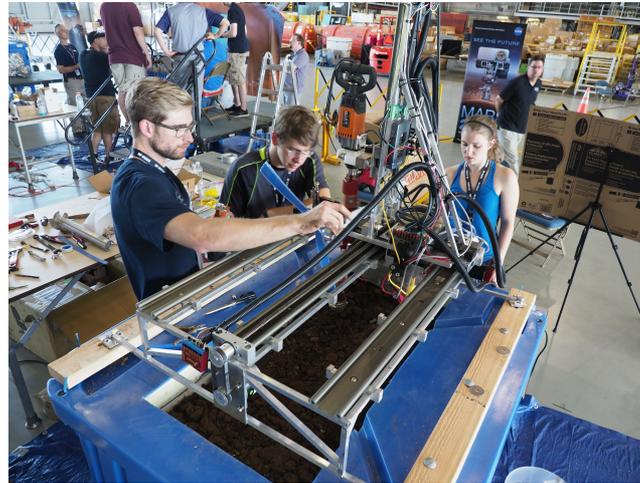
## DEGREE OFFERINGS

- Post-baccalaureate Certificates
- Master of Science Non-Thesis
- Ph.D.

# NASA Opportunities for Undergraduates



2018

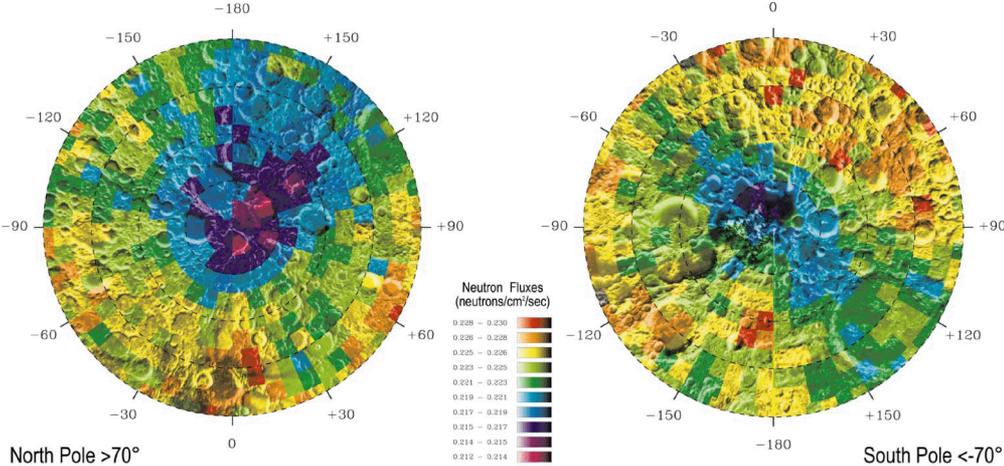


# SRR/PTMSS Sponsors



# LUNAR POLAR PROSPECTING WORKSHOP

Thursday 1:30 PM – Friday 12:30 PM





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