LSIC ISRU Focus Group Monthly
http://lsic.jhuapl.edu/
http://lsic-wiki.jhuapl.edu/ (Confluence sign-up required)

November 16, 2022
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• General updates and house-keeping
  - APL is happy to consult as appropriate with ISRU and related technologies. We can provide advice on how to build for launch and operate in extreme environments.
  - Upcoming Meetings
  - Funding Opportunities

• Phil Sadler (U Arizona): Utilizing McMurdo Station, Antarctica as a Lunar South Pole ISRU Analog Proving Ground

• Trevor Graff (Jacobs/NASA JSC): Terrestrial and Facility Analogs for Artemis Testing and Training

• Coffee and Donuts discussion: Thoughts from the LSIC Fall Meeting – what are our next steps for Lunar Proving Grounds?
Notable News

Artemis 1: Successful launch this morning! 🎉

CAPSTONE: Entered NRHO, testbed for Gateway orbit

MVA: Lunar Commerce Portfolio

Successful 2022 LSIC Fall Meeting!

Some upcoming IRSU-related meetings to be aware of:

- **CLPS: Survive the Night Technology Workshop, Dec. 6-8**
  - https://www.hou.usra.edu/meetings/clps2022/registration/
  - Registration closes Nov 22 (in person), Dec 8 (virtual)

- **Intertribal Space Conference, Nov. 15-17**
  - Bring the space industry and tribal leaders together, to form new mutually beneficial tribal-space partnerships.
  - Opportunity for participation by the space industry!
  - https://intertribalspaceconference.wpcomstaging.com/

- **Surface Power FG (Dec 1, 11am ET, see next slide)**

- **Technology Showcase for Future NASA Planetary Science Missions, Jan. 9-11**
  - Registration open! https://nasa-techshowcase.seti.org/
  - SMD, Planetary Decadal inspired
Surface Power Telecon: December 1st 11:00 ET

Speakers: Dr. Matt Clement, Dr. Sean Young, Dr. Joe Kozak, Samantha Andrade, Julie Peck (JHU/APL, Surface Power FG team members)

Topic: Surface Power Focus Group Year in Review and Feedback Forum

Agenda:
• Community Updates
• Review of 2022 Telecons and Workshops:
  -Anthony Calomino: FSP RFP (Jan)
  -MOSA subgroup (Feb)
  -Ian Jakupca: RFCs (Mar)
  -Ansel Barchowsky: Tethered Pwr (Mar)
  -LIVE RFI Breakouts (May)
  -Martin Naredorf: Stds Gov (Jun)
  -Low Temperature Workshop (Jul)
  -Popcorn Networking (Aug)
  -David Sadey: ISPSIS (Sep)
  -Annette Dolbow/Lee Mason/Jeff Csank: Integration and Testing (Oct)

• Survey and Community Feedback

Zoom Link for Dec 1st 11:00 ET:
https://jhuapl.zoomgov.com/j/1617206812?pwd=ZWhlaW5XRURsRmxJcWd4b1ZoeFFwUT09
Funding Opportunities

• Announcement for Partnership Proposals (AFPP) to Advance Tipping Point Technologies
  - Final proposals (invited) due Nov. 22 on NSPIRES

• 2023 NASA BIG Idea Challenge (grads/undergrads)
  - Lunar Forge: Producing Metal Products on the Moon
  - E.g., storage vessels for liquids and gases, extrusions, pipes, power cables, and supporting structures
  - Proposals due Jan. 24: https://bigidea.nianet.org/

• NASA Innovative Advanced Concepts (NIAC) Phase II
  - Proposal due Dec. 15

ROSES-22 Amendment 51: F.10 PRISM Final Text and Due Dates

Step 1: Oct. 22  |  Step 2: Dec. 20
Topical Discussion

Phil Sadler

*University of Arizona*

“McMurdo Station as a Proving Ground for ISRU”
Topical Discussion

Trevor Graff
Jacobs/NASA JSC

“Terrestrial and Facility Analogs for Artemis Testing and Training”
Coffee and Donuts

Thoughts from the LSIC Fall Meeting – what are our next steps for Lunar Proving Grounds?