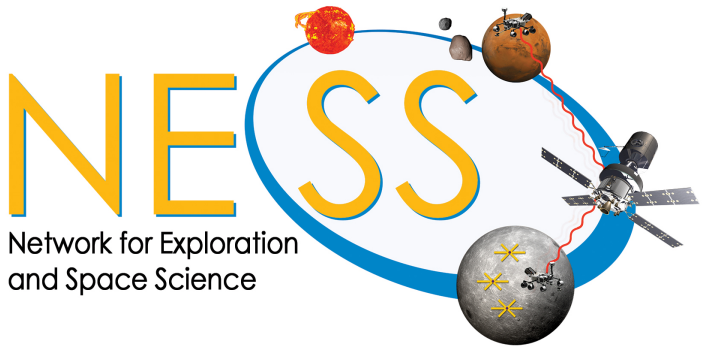
SSERVI NESS Site Visit and Steering Committee Meeting Agenda

(November 30, 2020)



9:00-9:15am **Introductions & Welcome** (NESS PI: Jack Burns, U. Colorado)

9:15-10:00am **Heliophysics** (Moderator: Justin Kasper, U. Michigan)
- 9:15-09:20am Overview
- 9:20-09:30am SunRISE *(Alex Hegedus, U. Michigan)*
- 9:30-09:40am ROLSES *(Bob MacDowall, NASA GSFC)*
- 9:40-09:50am Simulations of Type II solar bursts with FARSIDE *(Alex Hegedus)*
- 9:50-10:00am Discussion

10:00-10:45am **Exoplanet Magnetospheres** (Moderator: Gregg Hallinan, Caltech)
- 10:00-10:05am Overview
- 10:05-10:20am Preparing for FARSIDE: OVRO-LWA *(Marin Anderson, JPL)*
- 10:20-10:35am Exoplanetary System Observations with FARSIDE *(Gregg Hallinan)*
- 10:35-10:50am FARSIDE Polarization Configuration *(Nivedita Mahesh, ASU)*
- 10:50-11:00am Discussion

11:00-11:45am **Global 21-cm Signal I** (Moderator: Steve Furlanetto, UCLA)
- 11:00-11:05am Overview
- 11:05-11:35am Theory
  - 11:05-11:20am First stars and galaxies with FARSIDE *(Jordan Mirocha, McGill U.)*
  - 11:20-11:35am What Can Future Lunar Observatories Teach Us About Population III Star Formation? *(Rick Mebane, UCLA)*
- 11:35-11:45am Discussion

11:45-12:15pm **Lunch Break**

12:15-01:15pm **Global 21-cm Signal II** (Moderator: Rich Bradley, NRAO*)*

12:15-12:20pm Overview

12:20-01:05pm Global Signal Experiments

12:20-12:35pm Preparing for the Moon with EDGES *(Judd Bowman, ASU)*

12:35-12:50pm Cosmic Twilight Polarimeter (CTP) *(David Bordenave, NRAO)*

12:50-01:05pm Status Report on DAPPER *(Keith Tauscher, U. Colorado)*

01:05-01:15pm Discussion

1:15-1:45pm **Outreach Programs** (Moderator: Jack Burns)

1:15-1:25am Cosmic Dark to Cosmic Dawn Website *(Steven Furlanetto)*

1:25-1:35pm Forward! To the Moon Planetarium Show *(John Keller, U. Colorado)*

1:35-1:45pm Discussion

1:45-2:00pm **Coffee Break**

2:00-3:00pm **Global 21-cm Signal III** (Moderator: David Rapetti, NASA ARC/USRA/U. Colorado)

2:00-2:05pm Overview

2:05-2:50pm Analysis of Observational Data

2:05-2:20pm A Pattern Recognition Pipeline for DAPPER Spectra *(Neil Bassett, U. Colorado)*

2:20-2:35pm Sky & Beam Models at Low Radio Frequencies *(Joshua Hibbard, U. Colorado)*

2:35-2:50pm Global Bayesian Models for Global 21-cm Experiments *(Steven Murray, ASU)*

2:50-3:00pm Discussion

3:00-4:00pm **Telerobotics** (Moderator: Terrence Fong, NASA ARC)

3:00-3:05pm Overview

3:05-3:20 pm Mixed Reality Interfaces for Lunar Robot Supervision & Teleoperation *(Michael Walker, U. Colorado)*

3:20-3:35pm Telerobotic Deployment Strategies for Lunar Radio Arrays *(Mason Bell & Phaedra Curlin, U. Colorado)*

3:35-3:50pm Deployable Optical Receiver Aperture for Lunar Communications and Navigation (DORA) *(Daniel Jacobs, ASU)*

3:50-4:00 pm Discussion

4:00-4:15 pm **Final Remarks/Questions/Conclusions** (Jack Burns)