










Alaska Space Grant and NASA EPSCoR Education and Research Symposium

Virtual

Friday, April 2, 2021

- 9:00-9:10 A.M. **Welcome from Alaska Space Grant/NASA EPSCoR Director, Denise Thorsen**
- 9:10-9:30 A.M. **Kyle Alvarado, UAF**  **HEOMD**
Electron-fed microbes as nutrition in uncultivated domains
- 9:30-9:50 A.M. **Dr. Robert Herrick, UAF GI**  **SMD**
Mitigating Challenges Associated with Placing a Long-Term Seismometer on Venus
- 9:50-10:10 A.M. **Dr. Amani Reddy, UAF INE**  **SMD**
A study of change in near-Earth space weather using whistler mode radio sounding (3-30 kHz) from the IMAGE satellite
- 10:10-10:30 A.M. **Dr. Mohammad Heidari Kapourchali, UAA CoE**  **STMD**
Adaptive PV Array Reconfiguration for Optimal Power Extraction during Partial Shading Conditions
- 10:30-10:50 A.M. **Dr. Kelly Drew and Dr. Bernard Laughlin, UAF IAB**  **HEOMD**
Hibernation-like Stasis for Space Emergency Medicine
- 11:00 A.M. -12:00 P.M. **Morning Undergraduate Poster Session**
- 12:00-1:00 P.M. **Lunch**
- 1:00-1:10 P.M. **Welcome back from break, preview afternoon session**
- 1:10-1:30 P.M. **Dr. David Denkenberger, UAF ACEP**  **HEOMD**
Food from non-biological synthesis on the Earth and in space
- 1:30-1:50 P.M. **Megan Brauner, UAA**  **SMD**
Microbial Adaptive Mechanisms to Iron Limitations Provide Clues to Early Life
- 1:50 – 2:10 P.M. **Mitchel McCloskey, APU**  **SMD**
Devovement of STEM Students at the APU Aquarium Lab

2:10-2:30 P.M.

Dr. Shishay Kidanu, UAF CEM  **SMD**

InSAR -based mapping and geophysical investigation of landslides along the Alaska Highway Corridor, Tetlin Junction to Northway Junction, Alaska

2:30-2:50 P.M.

Christopher Smith, UAF  **SMD**

Improving remote sensing based boreal wildfire burn severity and risk assessment, interior Alaska

2:50 – 3:20 P.M.

Andrew Vu, UAF  **SMD**

Magnetospheric Multiscale Observations of the Evolution of Foreshock Transients and their Substructures

3:30 – 4:30 P.M.

Afternoon Undergraduate Poster Session



Alaska Space Grant Program supported project



Alaska NASA ESPCoR supported project

SMD – Science Mission Directorate

STMD – Space Technology Mission Directorate

HEOMD – Human Exploration and Operations Mission Directorate

AERO – Aeronautics Mission Directorate