



Overview

- Mars Mission and Space Radiation Risks
- Health Standards Decision Framework

Steve Davison, NASA-HQ, 30 min

David Liskowsky, NASA-HQ, 10 min

Space Radiation Environment

- Introduction
- Solar Energetic Particles
- Comparison and Validation of GCR Models
- GCR Radiation Environment Predictions
- Emerging GCR Data from AMS-2

Chris St. Cyr, NASA-GSFC, 5 min

Allan Tylka, NASA-GSFC, 30 min

Tony Slaba, NASA-LaRC, 30 min

Nathan Schwadron, Univ. of NH, 30 min

Veronica Bindi, Univ. of Hawaii, 30 min

Radiation Health Risk Projections

- NCRP Recommendations, Permissible Exposure Limits, Space Radiation Cancer Risk Model, Operations and In-Flight Solar Particle Event Mitigations

Eddie Semones, NASA-JSC, 45 min

Space Radiation R&T for Risk Mitigation

- Radiobiology Research Portfolio (Cancer, CNS, Cardio) and Spacecraft Shielding Design, Analysis, and Optimization

Lisa Simonsen, NASA-LaRC, 45 min