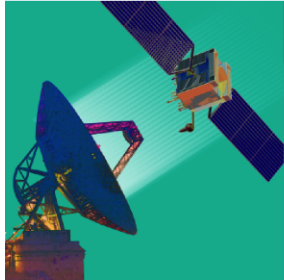


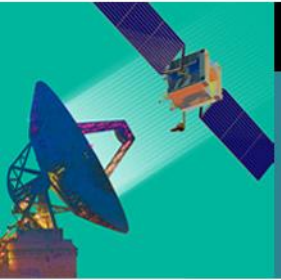
# Ground System Architectures Workshop



Session 11E

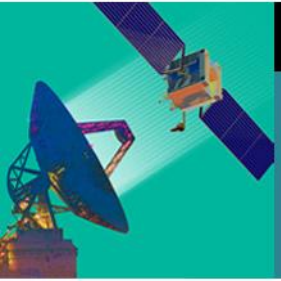
Resilient Future SATOPS Planning and Architecture –  
Science and Technology Innovation and System Archi-  
tecting driving Efficiencies across the Space Enterprise

*Roberta Ewart, Air Force Space and Missile Systems Center*  
*Joseph Betser, The Aerospace Corporation*



## Session Goals

- Maintain and enhance the positive momentum for the Future SATOPS Working Group Session
- Introduce new ideas supporting resiliency, STEM, open standards development, enterprise architecting
- Present S and T enabling innovation ideas and projects
- Identify stakeholders
- Status ongoing SATOPS plans/prototypes, projects



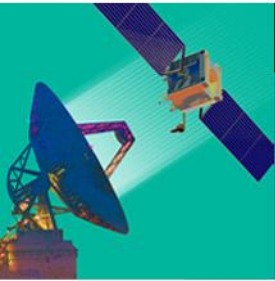
## Presenters/Panelists

- Joe Betser—Workforce Resiliency--STEM Talent Cultivation
- Capt Sarah Mashburn—SMC Enterprise Ground Architecture
- Capt George Sondecker—SENSE Overview and SATOPS Lessons
- Roberta Ewart—MONA: Framework for Leading Change
- Lt Garrett Ellis—Standard Network Adapter for Payloads (SNAP):  
MONA's Foundation at SMC
- Karen Basany—Agile Space Radio



## Key Points

- Discussion of interfaces and standards development
- STEM engagement on key enablers of future SATOPS capability
- Business cases for modular open approaches
- Stakeholder's engagement of GUI versus command line SATOPS (soft stuff is hard stuff)
- Industry participation and buy-in
- Cross pollination of stakeholder communities



## Conclusions

- Actions to be taken:
  - Develop Interfaces and standards
    - Professional bodies/societies
    - Industry and academia inputs
  - Continue industry, academia and government STEM efforts
    - Experiential learning to deliver capability
    - Expertise requirements for SATOPS
  - Develop business cases further
  - Extending the development to include cubesats and other form factors