Maryland Space Grant Consortium: Student Experience Highlights

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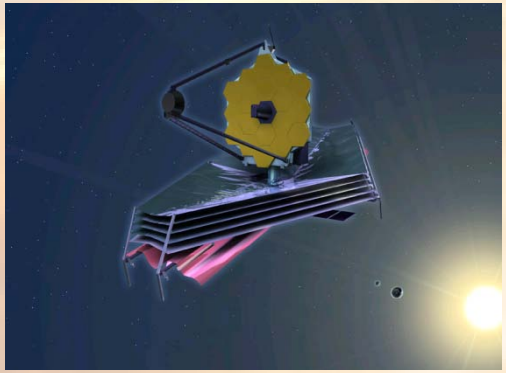
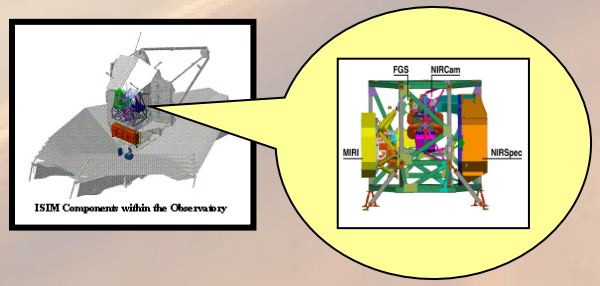
NASA Academy Internship

Interns for JWST ISIM

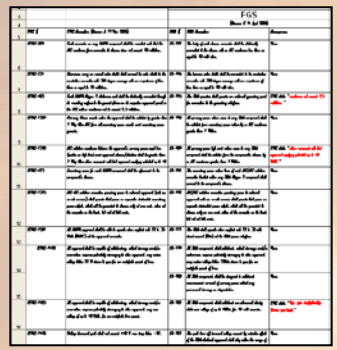
Instrument Wiring Mock-up



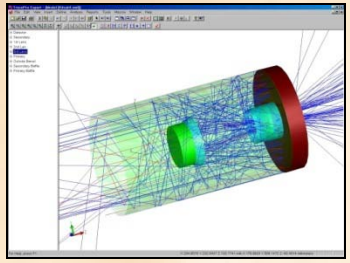
James Webb Space Telescope (JWST)

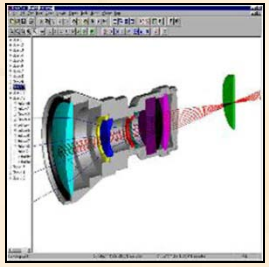


Kinematic Analysis



System Requirements





Optical Modeling

NASA Academy Internship

Work Experience

Team Project: Venus Mission

- Venus sample return mission
- 17 students
- Co-authored 66-page report
- Presentation to NASA representatives

Professional Site Visits

- Johnson Space Center
- Kennedy Space Center
- United Launch Alliance
- Orbital Sciences Corp.

Guest Lecturers

- Dr. John Mather
- Mr. Orlando Figueroa
- Mr. Jim Garvin
- Mr. Peter Hughes

NASA Co-op: Thermal Engineering

Thermal Vacuum Chambers

SDO Mockup

Installing MLI in Clean Room (Space Blankets)

Preparing Flight Hardware (Thermal Gasket)

Mars Desert Research Station

Two-Story Habitat
Hanksville, Utah

Students Sponsored by
Maryland Space Grant

EVA Operations

Sample Collection

Sample Analysis

Terrain of Mars Analog Site

Prototype Astronaut Hand Tool

Sample Excavation (Digging)

Sample Collection

Additional Walking Stability

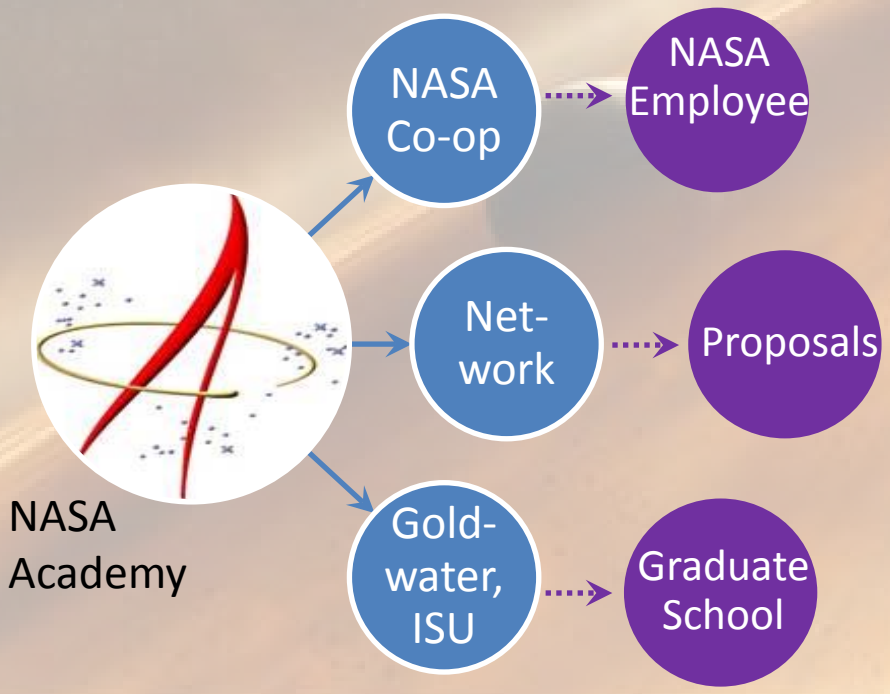
Self-Standing

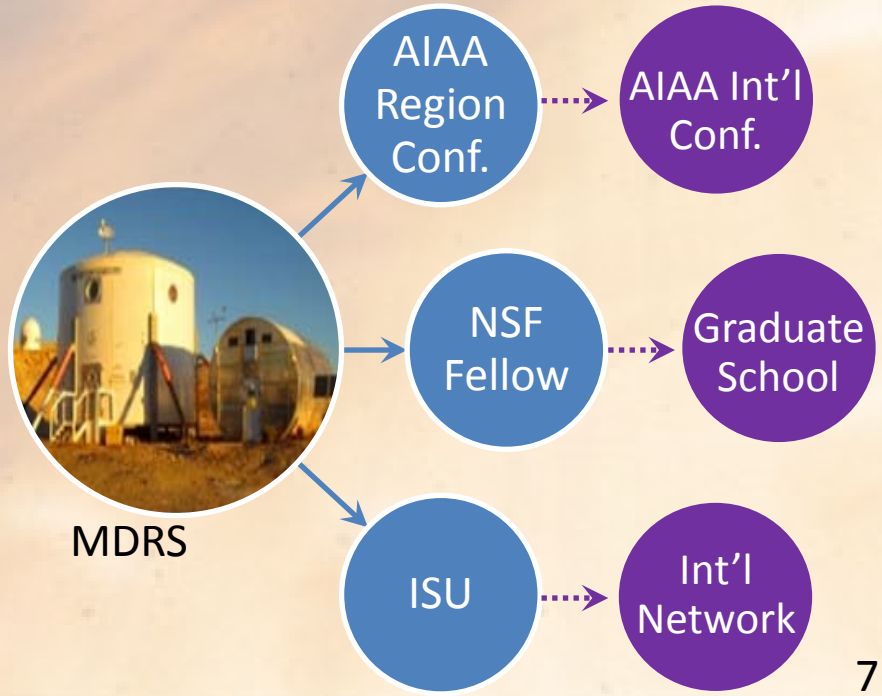
Imaging Microscope

Augmented-Reality Heads-Up Display

Impact on Career

- Interactions with Space Grant:
  - NASA Academy Internship
  - Mars Desert Research Station (MDRS), Crew 86
  - AIAA ASM and international student conference
- Ripple Effects:





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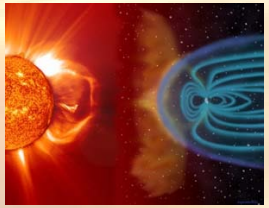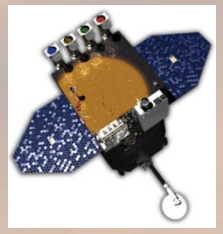
Questions?