Sagan Summer Workshop

Group Mission Projects

Outline

1. Science goals, mission name (bonus for acronym and logo!!)
2. Define telescope and instrument
3. Choose orbit
4. Calculate data volume, rate and downlink
5. Calculate pointing requirements
6. Select spacecraft bus
7. Determine launch mass
8. Select launch vehicle
9. Describe major risks
10. Estimate total mission cost

Mission Types

- **What type of mission are you interested in?**

  - Combined Light
    - Science Proponent: Mark Swain (swain@s383.jpl.nasa.gov)
  - Coronography
    - Science Proponent: John Trauger (john.trauger@jpl.nasa.gov)
  - Interferometry
    - Science Proponent: Rachel Akeson (rla@ipac.caltech.edu)
  - Ground-based
    - Science Proponent: Sara Seager (seager@mit.edu)
  - Transits
    - Science Proponent: Chas Beichman (chas@ipac.caltech.edu)

  - Technical Proponent for all mission types:
    - Keith Warfield (keith.r.warfield@jpl.nasa.gov)
      - Lead Concurrent Engineer – JPL's Team X

Group Meeting Schedules

- **Sign up for your preferred group during lunch today!**

- **Meet up with your group and science proponent tomorrow (Tuesday) at the lunch break**
  - Discuss science goals while eating lunch as a group
- **Attend Keith Warfield's talk immediately following lunch on Tuesday**
  - Keith will be available for questions during the workshop
- **Meet up with your group and science proponent Thursday at the lunch break**
  - Answer last minute questions and go over presentation while eating lunch as a group
- **Give final presentations (based on provided template slides) Friday afternoon**
  - Prizes will be awarded in various categories!
- ***HAVE FUN!!***