

HabEx STDT meeting
Jet Propulsion Laboratory, Pasadena, CA
August 3-4, 2016
180-703C Conference Room
Remote participation at <https://ac.arc.nasa.gov/HabEx>

Wednesday August 3, 2016

8:00AM – Doors open/refreshments
8:30AM – Welcome -- *Dave Gallagher/Dan Coulter*

Session #1: Study Overview

8:35AM – HabEx study schedule and plans -- *Keith Warfield*

Session #2: Study Strategy

9:15AM – Options for the “HabEx Story Line” -- *Maggie Turnbull*
10:00AM – Options for pre-screening targets (RV and astrometry)
-- *Scott Gaudi/Bertrand Mennesson*

10:30AM – Break

Session #3: Technology issues as they relate to the Mission Options Framework

10:45AM – Introduction -- *Sara Seager*
10:50AM – Monolithic mirror upper limits to aperture, including telescope f number vs. aperture -- *Lee Feinberg, Phil Stahl and Gary Matthews; panel discussion*
11:50AM – Update on ESA’s call for new science ideas -- *Andreas Quirrenbach*

12:00PM – Lunch

1:00PM – UV coating throughput and degradation -- *Bala Balasubramanian*
1:30PM – Low noise optical detectors: state of the art and future prospects
-- *Bijan Nemati*
2:00PM – Segmented mirror coronagraph study update --- *Dimitri Mawet*
2:30PM – Starshade tutorial and basic design considerations
-- *Stuart Shaklan/Doug Lisman/Steve Warwick*

3:45PM – HCIT and Starshade Lab Tours – *Nick Siegler*
5:00PM – Meeting ends

6:00PM – Team Dinner -- *Langham Hotel – The Terrace Restaurant*

Thursday August 4, 2016

8:00 am Doors open/refreshments

Session #4: General astrophysics

8:30AM – Ground-based capabilities for general astrophysics and exoplanets science
-- *Olivier Guyon*

9:00AM – General astrophysics: compelling science to fit in the framework
-- *Lead: Scott Gaudi, Paul Scowen, Rachel Somerville, Daniel Stern*

11:00AM – Break

11:15AM – Update on plans for planet yield calculations -- *Rhonda Morgan*

11:45AM – More on planet yield—Starshade and telescope aperture -- *Karl Stapelfeldt*

12:15PM – Lunch

1:15PM – General Trades Discussion (All): populating framework table

Session #5: Updates on key exoplanet science questions

3:00PM – Planet size and mass—what defines a rocky world -- *Leslie Rogers*

3:15PM – Habitability—what do we need to establish? -- *Ty Robinson*

3:30PM – Biosignatures—update and wavelength range -- *Shawn Domagal-Goldman*

3:45PM – Wrap up -- *Sara Seager/Scott Gaudi*

4:30PM – Meeting ends