

# LUVOIR / HabEx STDTs Meeting #5 Agenda

July 31 – Aug 4, 2017

<b>LUVOIR-only: Monday July 31</b>	
Keck Think Tank, Room 151, Caltech, 345 S Michigan, Pasadena, CA 91101 Audio and video through <a href="https://ac.arc.nasa.gov/luvoir">https://ac.arc.nasa.gov/luvoir</a>	
1:00 PM to 1:15 PM	Chairs Welcome and Meeting Overview ( <i>Debra Fischer / Brad Peterson</i> )
1:15 PM to 2:15 PM	Update on Architecture A Design Progress ( <i>Matt Bolcar</i> )
2:15 PM to 2:45 PM	Coffee Break
2:45 PM to 4:00 PM	Updates on Interim Report Progress <ul style="list-style-type: none"> <li>A. Overview (<i>Aki Roberge</i>)</li> <li>B. Cosmic Origins (<i>John O'Meara</i>)</li> <li>C. Exoplanets &amp; Solar System (<i>Mark Marley</i>)</li> <li>D. Design &amp; Technology (<i>Matt Bolcar</i>)</li> </ul>
4:00 PM to 5:00 PM	Communications Discussion ( <i>Shawn D-G / Debra Fischer</i> )
6:30 PM	Group Dinner

<b>LUVOIR-only: Tuesday August 1</b>	
Keck Think Tank, Room 151, Caltech, 345 S Michigan, Pasadena, CA 91101 Audio and video through <a href="https://ac.arc.nasa.gov/luvoir">https://ac.arc.nasa.gov/luvoir</a>	
8:30 AM to 9:00 AM	Coffee / Refreshments
9:00 AM to 10:00 AM	Assessing the Science Return: DRM Discussion ( <i>Aki Roberge</i> )
10:00 AM to 10:30 AM	Coffee Break
10:30 AM to 12:00 PM	Breakout Sessions: Start Designing DRMs <ul style="list-style-type: none"> <li>A. Cosmic Origins &amp; Physics of the Cosmos (<i>John O'Meara</i>)</li> <li>B. Exoplanets &amp; Solar System (<i>Mark Marley</i>)</li> </ul>
12:00 PM to 1:00 PM	Lunch
1:00 PM to 3:00 PM	Breakout Sessions: Interim Report Writing <ul style="list-style-type: none"> <li>A. Cosmic Origins &amp; Physics of the Cosmos (<i>John O'Meara</i>)</li> <li>B. Exoplanets &amp; Solar System (<i>Mark Marley</i>)</li> <li>C. Design &amp; Technology (<i>Matt Bolcar</i>)</li> </ul>
3:00 PM to 3:30 PM	Coffee Break
3:30 PM to 4:15 PM	Preparing for Architecture B ( <i>Matt Bolcar</i> )
4:15 PM to 5:00 PM	Architecture B Discussion
6:30 PM	Group Dinner

<b>LUVOIR &amp; HabEx: Wednesday August 2</b>	
Caltech Beckman Institute Auditorium, 400 S Wilson Ave, Pasadena 91106 Audio and video through <a href="https://ac.arc.nasa.gov/luvoir">https://ac.arc.nasa.gov/luvoir</a>	
8:30 AM to 9:00 AM	Coffee / Refreshments
9:00 AM to 9:15 AM	Introduction and Goals for the Meeting ( <i>Scott Gaudi / Brad Peterson</i> )
9:15 AM to 10:00 AM	LUVOIR Status: Science & Architecture ( <i>Debra Fischer / Aki Roberge</i> )
10:00 AM to 10:30 AM	Coffee Break
10:30 AM to 11:15 AM	HabEx Status: Science and Architecture ( <i>Scott Gaudi / Keith Warfield</i> )
11:15 AM to 12:00 PM	Common Technologies ( <i>Matt Bolcar / Rhonda Morgan</i> )
12:00 PM to 1:00 PM	Lunch
1:00 PM to 3:00 PM	Splinter Sessions <ul style="list-style-type: none"> <li>A. Exoplanet observational strategy (<i>Shawn D-G</i>)</li> <li>B. General astrophysics (<i>Paul Scowen / John O'Meara</i>)</li> <li>C. Solar System remote sensing (<i>Walt Harris / John Clarke</i>)</li> <li>D. Technology deep dive (<i>Keith Warfield / David Redding</i>)</li> </ul>
3:00 PM to 3:30 PM	Coffee Break
3:00 PM to 4:00 PM	Splinter Session Reports
4:00 PM to 5:00 PM	General Discussion and Wrap-Up ( <i>Scott Gaudi / Aki Roberge</i> )

<b>HabEx-only: Thursday, August 3</b>	
Keck Think Tank, Room 151, Caltech, 345 S Michigan, Pasadena, CA 91101 Audio and video through <a href="https://ac.arc.nasa.gov/HabEx">https://ac.arc.nasa.gov/HabEx</a>	
8:30 AM to 9:00 AM	Coffee/Light Refreshments
9:00 AM to 9:30 AM	Summary of Current Status of the Study and Report ( <i>Keith Warfield</i> )
9:30 AM to 10:00 AM	Introduction ( <i>Scott Gaudi</i> )
10:00 AM to 11:40 AM	Direct Imaging of Exoplanetary Systems ( <i>Sara Seager</i> ) <ul style="list-style-type: none"> <li>• Nearest Neighbors (<i>Sara Seager</i>)</li> <li>• Diversity of Exoplanets (<i>Ty Robinson</i>)</li> <li>• Habitable Planets (<i>Shawn Domagal-Goldman</i>)</li> <li>• Disks (<i>Karl Stapelfeldt</i>)</li> <li>• Auxiliary Information (<i>Leslie Rogers</i>)</li> </ul>
11:40 AM to 12:40 PM	Lunch

12:40 PM to 2:00 PM	General Astrophysics ( <i>Paul Scowen</i> ) <ul style="list-style-type: none"> <li>• Hubble Constant (<i>Dan Stern</i>)</li> <li>• Escape Fraction/Life Cycle/Massive Stars (<i>Paul Scowen</i>)</li> <li>• Star Formation Histories and Dark Matter (<i>Rachel Somerville</i>)</li> <li>• Solar System Applications (<i>John Clarke</i>)</li> </ul>
2:00 PM to 2:30 PM	Coffee Break
2:30 PM to 4:30 PM	The HabEx 4m Baseline Design ( <i>Gary Kuan</i> ) <ul style="list-style-type: none"> <li>• Overview (<i>Gary Kuan</i>)</li> <li>• Telescope (<i>Phil Stahl</i>)</li> <li>• Payload (<i>Stefan Martin</i>)</li> <li>• Stabilization (<i>Oscar Alvarez-Salazar</i>)</li> <li>• Starshade (<i>David Webb</i>)</li> </ul>
4:30 PM to 5:00 PM	Alternative 4m architectures ( <i>Keith Warfield</i> )
5:00 PM to 5:15 PM	6.5m Architecture Options ( <i>Keith Warfield</i> )
5:15 PM to 6:00 PM	Discussion
6:00 PM	Adjourn

<b>HabEx-only: Friday, August 4</b> Keck Think Tank, Room 151, Caltech, 345 S Michigan, Pasadena, CA 91101 Audio and video through <a href="https://ac.arc.nasa.gov/HabEx">https://ac.arc.nasa.gov/HabEx</a>	
8:30 AM to 9:00 AM	Coffee/Light Refreshments
9:00 AM to 9:30 AM	DRM and Yield ( <i>Bertrand Mennesson on behalf of Chris Stark</i> )
9:30 AM to 11:15 AM	Technical Challenges TRL <= 4 <ul style="list-style-type: none"> <li>• Starshade Petal Deployment Accuracy and Shape Stability (<i>Stuart Shaklan, 10 min</i>)</li> <li>• Coronagraph architecture (<i>Dimitri Mawet, 10 min</i>)</li> <li>• Large mirror coating (<i>Bala Balasubramanian, 5 min</i>)</li> </ul> TRL >= 5 <ul style="list-style-type: none"> <li>• Microthrusters (<i>John Zimmer, 10 min</i>)</li> <li>• DMs (<i>Stefan Martin, 5 min</i>)</li> <li>• UV/Vis/IR detectors (<i>Shouleh Nikzad, 15 min</i>)</li> <li>• Starshade performance modeling (<i>Stuart Shaklan, 5 min</i>)</li> <li>• Starshade edge scatter suppression (<i>Stuart Shaklan, 5 min</i>)</li> <li>• Formation flying (<i>Mike Bottom, Carl Seubert, Stefan Martin, or Dan Scharf, 5 min</i>)</li> <li>• Laser metrology (<i>Joel Niessen, 5 min</i>)</li> <li>• Large mirror fabrication (<i>Phil Stahl, 10 min</i>)</li> </ul>
11:15 AM to 12:00 PM	Conclusion, Wrap-Up, Next Steps ( <i>All</i> )
12:00 PM	Adjourn