

In-Space Assembled Telescope (iSAT) Study Workshop June 5-7, 2018
Caltech, Pasadena, CA

Date: Tuesday, June 5

Meeting time: 8:30 am-6:00 pm (PT)
 Webex: [Link to day 1 screen share](#) Meeting Number: 903 849 332
 Dial-In: 844-575-9329 Passcode: 903 849 332
 Website: https://exoplanets.nasa.gov/exep/technology/in-space-assembly/iSAT_study/
 Conference Room: Keck Think Tank 151
 Wifi: Username: isat Password: robotics

	Topic	Presenter	Start	Duration	Intended Result
1	Sign in and Refreshments		8:00	0:30	
2	Welcome and Logistics, Workshop Goals	Siegler, Hertz	8:30	0:45	WG understands the rationale, methodology, and the intended result of the next 2.5 days
3	Science Benefits, Study Initial Conditions, and Assumptions	Peterson, Siegler	9:15	0:45	WG understands the intended science mysteries to be answered, the Study's Initial Conditions, and Assumptions
4	What's so Hard About Modularizing a Telescope	Mukherjee	10:00	0:30	WG understands the expected challenges of iSA (tall tent poles)
5	Break		10:30	0:15	
6	Telescope Topology and Rationale	Redding	10:45	0:45	WG understands the nominal architecture of the reference telescope(s) to be modularized and the rationale behind it along with some potential specifications.
7	Instrument Requirements and Bounding Volumes/Constraints	Bolcar	11:30	0:30	WG understands the implications of instruments on iSA, kinds of instruments that may be hosted and any topological or other constraints imposed by the instruments for assembly
8	No-Host Lunch (catered in room)		12:00	0:45	Vegetarian and meat entrees available.
9	Selection Criteria	Siegler	12:45	1:00	Review the criteria working towards consensus
	Telescope Modularization Considerations	Mukherjee	13:45	0:30	WG understands questions to be addressed during the break-out sessions
11	Breakout I: Modularization of Primary Mirror and its Structure (including avionics, power, harness etc) <i>Location: Noyes room 153</i>		14:15	3:00	Initial concepts for modularization of the primary mirror structure and reflectors
12	Plenary Update- Team 1	Team 1	17:15	0:15	A quick update on the findings of the breakout session
13	Plenary Update- Team 2	Team 2	17:30	0:15	A quick update on the findings of the breakout session
14	Wrap up		17:45	0:15	Any end of day thoughts
	Adjourn		18:00	0:00	
	End		18:00		

No-Host Group Dinner- Athenaeum "Al Fresco" at Caltech

6:15-8:30pm

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Date: Wednesday, June 6

Meeting time: 8:30 am - 6:00 pm (PT)

Website: https://exoplanets.nasa.gov/exep/technology/in-space-assembly/iSAT_study/

Conference Room: Keck Think Tank 151

Wifi: Username: isat Password: robotics

	Topic	Presenter	Start	Duration	Intended Result
1	Sign in and Refreshments		8:00	0:30	
2	Recap and Initial Conditions	Siegler	8:30	0:30	WG communicates any challenges to be addressed moving forward.
3	Breakout II: Modularization of the Rest of the Observatory (including secondary, metrology, instruments, sunshade/thermal blanketing etc) <i>Location: Annenberg Room 107</i>		9:00	3:00	Initial concepts for modularizing the rest of the telescope
4	No-Host Lunch (catered)		12:00	1:00	Vegetarian and meat entrees available.
5	Breakout III: Integration and Test Paradigm <i>Location: Annenberg Room 106</i>		13:00	2:00	Initial concepts for testing and V&V of the telescope and its components. New paradigm: telescope is designed for operations, not for launch.
6	Plenary Update- Team 1 Design Outbrief		15:00	1:00	Team 1 summary update from the three breakout sessions
7	Plenary Update- Team 2 Design Outbrief		16:00	1:00	Team 2 summary update from the three breakout sessions
8	Mapping to and Gathering More Selection Criteria and Discussions	Siegler	17:00	0:30	Going back to criteria for evaluating the modularization and mapping how the designs performs against these criteria
	Wrap up		17:30	0:15	
	Adjourn		17:45	0:00	
	End		17:45		

In-Space Assembled Telescope Study Workshop June 5-7, 2018
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Date: Thursday, June 7

Meeting time: 8:30 am - 12:00 pm (PT)

Webex: [Link to Day 3 Screenshare](#)

Meeting Number: 900 103 592

Dial-In: 844-575-9329

Passcode: 900 103 592

Website: https://exoplanets.nasa.gov/exep/technology/in-space-assembly/iSAT_study/

Conference Room: Keck Think Tank 151

Wifi: Username: isat Password: robotics

	Topic	Presenter	Start	Duration	Intended Result
1	Sign in and Refreshments		8:00	0:30	
2	Generate Concept Options/Opportunities to Hybridize New Options	Siegler	8:30	1:30	Time slot to integrate the best findings from the two designs, if applicable. Allow time for "hybridization" of the concepts and/or any left over issues. Get consensus if needed
3	Document Designs, Capture Forward Actions		10:00	2:00	Document the findings formally for future presentations
4	Workshop Concludes		12:00	0:00	
5	Optional lunch at cafeteria		12:00	1:00	
6	FASST F2F core group (optional)		13:00	2:00	
	End		15:00		

Possible tour of Caltech's Multi-spacecraft Simulation Lab 1:00pm or 3:30pm