



Capturing an Opportunity at Apophis: KISS Symposium

July 31 - August 1, 2024
Overview Schedule

Wednesday July 31, 2024 Keck Center Think Tank, Room 155 - Caltech

Time	Event	Speaker
8:30 - 9:00	Coffee and Refreshments	
9:00 - 9:15	Workshop Logistics and Introduction to KISS	Harriet Brettle
9:15 - 9:45	Participant Introductions	Harriet Brettle
9:45 - 10:15	Vision and goals for this Symposium	Carol Raymond Jose Andrade
10:15 - 10:45	Break	
10:45 - 11:20	Keynote #1 - Introduction to the Caltech Apophis mission plan	Carol Raymond Jose Andrade
11:20 - 12:00	Keynote #2 - The Importance of Apophis' Interior	Erik Asphaug
12:00 - 1:00	Lunch	
1:00 - 1:45	Keynote #3 - SBAG Specific Action Team report and science outcomes	Jessie Dotson
1:45 - 2:30	Keynote #4 - Predictions of Apophis's internal structure in response to its 2029 flyby	Toshi Hirabayashi
2:30 - 3:30	Breakout discussion sessions: - Feedback on the Caltech mission concept and how it fits with other missions to Apophis - How an Apophis mission will be used to further planetary science and planetary defense objectives - Data to modelling - mutual benefits and identification of potential gaps	Groups
3:30 - 4:00	Break	
4:00 - 5:00	Report outs from breakout groups and Plenary discussion	Team Leads
5:00 - 5:30	Solicitation of Lightning Talks and Breakout Group topics for day 2	Team Leads
5:30 - 6:00	Pack up and walk to the Athenaeum	All
6:00	Dinner at the Athenaeum	

Thursday, August 1, 2024 - Keck Center - Think Tank, Room 155

Time	Event	Speaker
8:00 - 8:30	Institute Opens - FREE THINK TIME	
8:30 - 9:00	Coffee and Refreshments at Keck Center	
9:00 - 9:15	Logistics and Team Lead Goals for the Day	Harriet Brettle and Team Leads
9:15 - 09:45	Keynote Talk # 5 - What can be learned from low-frequency radar observations of Apophis?	Mark Haynes
9:45 - 10:30	Lightning Talks - Resurfacing Modeling and Estimates - COSYMO Modeling of Apophis - Transponder on Surface for RT Rotational State Measurements - Radar Opportunities	Joe DeMartini + Yaeji Kim Adriana Daca Martin Laabs Lance Benner
10:30 - 11:00	Break	
11:00 - 12:00	Breakout discussion sessions - Communications - what are the key factoids/talking points for Apophis - Mechanical Properties of Apophis - how do we measure strength? - All the flavors of radar	Groups
12:00 - 12:30	Report outs from breakout groups and Plenary discussion	Groups
12:30 - 2:00	Group Picture and Lunch	
2:00 - 3:00	Group Pulse Open Discussion of Breakout Group Recommendations and Path Forward	All
3:00 - 3:30	Informal Small Group Collaboration Time	All
3:30 - 4:00	Break	
4:00 - 5:00	Final Session drafting Symposium outputs: - Set of recommendations to the mission team - A plan for follow-on activities	Groups
5:00	Institute Closes	