

## SPACE CHALLENGE SCHEDULE

Time	Activity	Person	Location
<b>Sunday March 24th</b>			
1000-1230	<b>Orbital Mechanics for Beginners</b>	Nathan Strange (NASA-JPL)	Thomas (306)
1230-1300	Boxed lunch	Dimity Nelson (Caltech)	Guggenheim Lobby & Quad
1300-1600	<b>Interplanetary Orbital Mechanics</b>	Nathan Strange (NASA-JPL)	Thomas (306)
1700	Registration for Participants	Dimity Nelson (Caltech)	Dabney Lounge
<b>1800</b>	<b>Opening Ceremony Sponsored By JPL!</b> (Business Casual)	Dimity Nelson (Caltech)	Dabney Lounge
1845	<b>Space Mission Architecture Approach by Team X</b>	Kelley Case (JPL)	Dabney Lounge

<b>Monday March 25th</b>			
0730-0800	Breakfast	Dimity Nelson (Caltech)	Guggenheim Lobby
0800-0900	<b>Mars Science: Past, Present &amp; Future</b>	Richard Zurek (NASA-JPL)	Guggenheim (101)
0900-0930	<b>Team Explorer - Team Building Presentation</b>	Nigel Angold (Consultant)	Guggenheim (202)
0900-0930	Team Voyager Session		Thomas (306)
0930-1000	<b>Team Voyager - Team Building Presentation</b>	Nigel Angold (Consultant)	Thomas (306)
0930-1200	Team Explorer Session		Guggenheim (202)
1000-1200	Team Voyager Session		Thomas (306)
1200-1300	Boxed Lunch/Travel to JPL via Bus - <b>bring passports</b>	Dimity Nelson (Caltech)	Guggenheim Lobby
1300-1530	Tour of the Jet Propulsion Laboratory		
1530-1630	<b>INSPIRE, the Worlds First Deep Space CubeSat</b>	John Baker (NASA-JPL)	JPL (Auditorium 321)
1630-1700	Travel to Caltech via Bus	Dimity Nelson (Caltech)	
1700-1830	Team Explorer Session		Guggenheim (202)
1700-1830	Team Voyager Session		Thomas (306)
1830	Dinner	Dimity Nelson (Caltech)	Rathskeller - The Athenaeum

<b>Tuesday March 26th</b>			
0730-0800	Breakfast	Dimity Nelson (Caltech)	Guggenheim Lobby
0800-0900	<b>Trajectory Design Techniques for Human Missions to Mars</b>	Damon Landau and Nathan Strange (NASA-JPL)	Guggenheim (101)
0900-1100	Team Explorer Session		Guggenheim (202)
0900-1100	Team Voyager Session		Thomas (306)
1100-1200	<b>Radiation Risk Management</b>	Ron Turner (Analytic Services Inc.)	Guggenheim (101)
1200-1300	Participant Lunch	Dimity Nelson (Caltech)	Guggenheim, Thomas
1300-1400	<b>Considerations for Designing a Human Mission to the Martian Moons</b>	Daniel Mazanek (NASA-Langley)	Guggenheim (101)
1400-1630	Team Explorer Session		Guggenheim (202)
1400-1630	Team Voyager Session		Thomas (306)
1630-1730	<b>Comparison of Phobos and Deimos for Human Missions</b>	Josh Hopkins (Lockheed Martin)	Guggenheim (101)
1730-1830	Team Explorer Session		Guggenheim (202)
1730-1830	Team Voyager Session		Thomas (306)
1830	Dinner		Rathskeller - The Athenaeum

## SPACE CHALLENGE SCHEDULE

Time	Activity	Person	Location
<b>Wednesday March 27th</b>			
0800-0830	Breakfast	Dimity Nelson (Caltech)	Guggenheim Lobby
0830-0930	<b>Robotic Precursor Missions: Enabling Exploration and Science</b>	Paul Abell (NASA-JSC)	Guggenheim (101)
0900-1100	Team Explorer Session		Guggenheim (202)
0900-1100	Team Voyager Session		Thomas (306)
1100-1200	<b>Phobos and Deimos: State of Knowledge and Drivers for Future Exploration by Robotic and Human Missions</b>	Julie Castillo-Rogez (NASA-JPL)	Guggenheim (101)
1200-1300	Participant Lunch	Dimity Nelson (Caltech)	Guggenheim, Thomas Courtyard
1300-1700	Team Explorer Session		Guggenheim (202)
1300-1700	Team Voyager Session		Thomas (306)
1700-1745	Preliminary Design Review for Team Voyager		Thomas (306)
1700-1745	Team Explorer Session		Guggenheim (202)
1745-1830	Preliminary Design Review for Team Explorer		Guggenheim (202)
1745-1830	Team Voyager Session		Thomas (306)
1830	Team Dinner		Rathskeller - The Athenaeum

### Thursday March 28th

0830-0900	Breakfast	Dimity Nelson (Caltech)	Guggenheim Lobby
0900-1200	Team Explorer Session		Guggenheim (202)
0900-1200	Team Voyager Session		Thomas (306)
1200-1300	Participant Lunch	Dimity Nelson (Caltech)	Guggenheim, Thomas Courtyard
1300-1830	Team Explorer Session		Guggenheim (202)
1300-1830	Team Voyager Session		Thomas (306)
1830	Team Dinner		Rathskeller - The Athenaeum

### Friday March 29th

0730-0800	Breakfast	Dimity Nelson (Caltech)	Guggenheim Lobby
0900-1200	Team Explorer Session		Guggenheim (202)
0900-1200	Team Voyager Session		Thomas (306)
1200-1300	Participant Boxed Lunch	Dimity Nelson (Caltech)	Guggenheim Lobby
1230-1400	Jury Lunch		The Athenaeum
1400-1500	Team Presentation 1!		Guggenheim (101)
1500-1600	Team Presentation 2!		Guggenheim (101)
1600	Jury Deliberation		Karman Conference Room
1730	Cocktail Hour		The Athenaeum
1800	<b>Closing Banquet Sponsored By the Keck Institute for Space Studies!</b> (Business Dressy)		The Athenaeum