



# Flight Opportunities Program

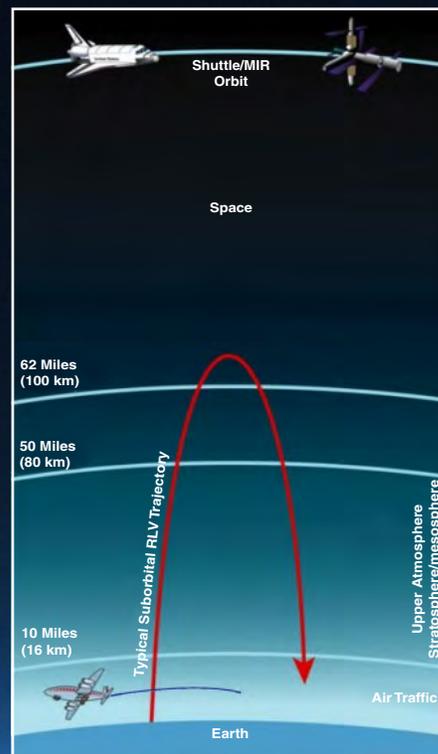
Office of the Chief Technologist



**“To develop and provide flight opportunities for space technologies to be demonstrated and validated in relevant environments”**

The NASA Flight Opportunities Program was initiated by The Office of the Chief Technologist (OCT) as an integral element in an overall strategy to make a connection between early conceptual studies and their introduction as new technology in the critical path of science and space exploration. The program combines the Facilitated Access to the Space Environment for Technology (FAST) and the Commercial Reusable Suborbital Research (CRuSR) efforts, previously managed by the Innovative Partnership Program Office. In FY 2012, the program plans to expand to include other platforms and test environments.

The program intends to mature to flight readiness status a number of technologies that are of benefit to multiple customers. In addition, the program will also fly science payloads provided by the Aeronautics Research Mission Directorate (ARMD), Exploration Systems Mission Directorate (ESMD), and Science Mission Directorate (SMD).



**LEARN HOW TO FLY HERE AT NSRC 2011**  
or see the Announcement of Opportunity at <http://flightopportunities.nasa.gov>



## FLIGHT OPPORTUNITIES PROGRAM WORKSHOP

Tuesday, March 1, 2011

Time	Title
7:00 – 7:15 p.m.	<i>NASA's Flight Opportunities Program—An Overview for Researchers</i>
7:15 – 7:30 p.m.	<i>Recap of Announcement of Opportunity</i>
7:30 – 7:45 p.m.	<i>Flight Opportunities Program - CRuSR, What We Have Learned So Far</i>
7:45 – 8:00 p.m.	<i>NASA's Flight Opportunities Program: An Evolving Design &amp; Development Strategy for CRuSR Payloads</i>
8:00 – 8:15 p.m.	<i>Tour of Flight Opportunities Program Website</i>
8:15 – 8:30 p.m.	<i>NASA Sounding Rocket Program – An Overview</i>
8:30 – 8:45 p.m.	<i>Break</i>
8:45 – 9:55 p.m.	<i>Flight Opportunities Program/CRuSR Payload Interfaces</i>
9:55 – 10:00 p.m.	<i>Final Thoughts and Wrap-Up</i>

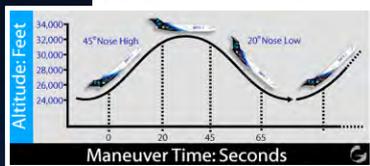
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## Upcoming Flights

The program currently features the following flights to take place in the coming months. The proposal window for these flights has now closed. New flight opportunities will be announced on the Flight Opportunities website and incorporated in the evolving Announcement of Flight Opportunities (open through 31 December, 2014) as they become available.



**Parabolic Flight Week  
18 July, 2011**



**Suborbital RLV  
Developmental Flights  
FY 2011**



## Current sRLV Activities

Two payloads are currently being finalized to fly as part of developmental test flights of the Xaero platform by Masten Space Systems and Super Mod by Armadillo Aerospace. Both payloads will be mounted in a specially designed payload rack that can fit the payload envelope of both vehicles. These flights are currently scheduled to go up to 30 km and 40 km altitude respectively and will take place before the end of FY 2011.

### Payload Development



ADS-B (FAA Payload) & Suborbital Flight Environment Monitor (SFEM)

### Payload Rack Development



ADS-B and SFEM integrated on mounting shelf in Payload Rack

### Payload Rack Integration Tests



Payload Rack integration on Masten's Xaero vehicle (January 2011)

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