



HASP 2018 Monthly Status Report

Report Month: January, 2018
Submitted by: Conner Shaver
Submit Date: 02 /1/ 2018
Institution: CU-Boulder
Payload Number: 2018-10
Payload Name: Miura II

I) Activities During Previous Month:

- Hiring of the Project Manager for the 2018 Flight
 - Begin hiring process of the remaining team members for the 2018 Flight
- Brainstorming ways to implement Proposal feedback

II) Issues Encountered:

- Scheduling an adequate number of interviews in the given time before the Monthly Status Report

III) Milestones Achieved:

- Hired a Project Manager as of Monday, January 29th
- Halfway through the interviewing process, Will be done by Friday, February 2nd and the team will be hired by Monday, February 5th

IV) Plans for Coming Month:

- Get team acclimated to Space Grant environment
- Get team familiar with Space Grant resources and their role on the Miura II team
- Implement Proposal Feedback by Friday, February 9th
 - Add in testing to over-pressurization of 15% for all tests
 - Add in testing structural cage for a failure of the Pressure vessel
 - Test the entire payload to destruction of the Pressure vessel
 - Add in destructive testing after 20 cycles, then do it again after 100
 - Explore materials other than Kevlar
 - Explore compacting techniques other than folding the Kevlar (stuffing)
 - Explore only pressurizing to a fraction of atmospheric pressure for flight
 - Reach out to Lockheed Martin Co.'s NextStep program for possible insight

- Create a more in-depth schedule which includes an extra 1 to 2 months to properly test the pressure vessel and the entire system
- During all destructive testing measure the surface tension at rupture and compare the results for different amounts of cycles.
- Add in a Failure Effects Analysis for all testing procedures

V) Other Comments:

We would like to thank you for your feedback on our proposal and for giving us the opportunity to improve upon our proposal and still fly.

VI) Team Composition and Organization:

Fill in text as necessary plus update table below.

Name	Start Date	End Date	Role	Student Status	Race	Ethnicity	Gender	Disabled
Conner Shaver	1/29/18	Current	Project Manager	Undergrad	White		Male	No