HASP2012
UNF Payload
Monthly Status Report for April 2012

UNF Team

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UNF team did the following work during April 2012:

(1) The following parts were ordered for payload body. We are waiting for the delivery from supplier www.onlinemetals.com.

Name	Size	Purpose
Aluminum Extruded Square Tube	height 11” w x d: 6” x6” wall thickness: 0.125”	Payload body
Aluminum Sheet	6” X 6”	Top lid
Aluminum Perforated Sheet	1’ x 1’sheet	Windows for sensor arrays
Aluminum Finished Rectangles	18 nos.	Internal support of payload with base plate and lid

The main features of our newly designed payload body will be easy to open and close payload, easy access of PCB and sensor boxes, low rate of outgassing under low pressure, better stability with thermal and impact, and reusable.

(2) Orders for sensor array box, fan, and Kapton Polyimide heater were also placed and waiting for delivery.

(3) Design of new circuit board for 8 sensor array and additional tracks for temperature sensor, heater and light sensor is going on. New sensor PCB will be ordered soon.

(4) Students were busy with their final examination during last ten days and will be back from the next week.
(5) New experimental setup for simultaneous testing of 24 sensors with different concentration of ozone array in a test chamber was established. Variation of pressure and temperature in a test chamber is going on.

UND Team

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The UND team has conducted our weekly High Altitude Ballooning meetings every Wednesday at 9am (central). We have been in contact with Dr. Patel's UNF team this month and providing assistance when necessary.