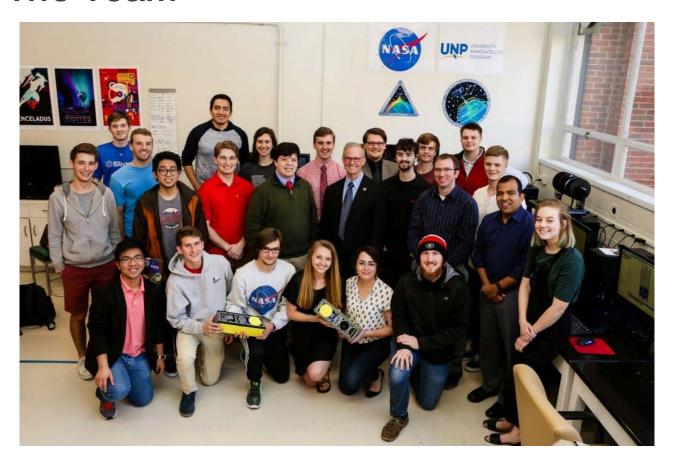
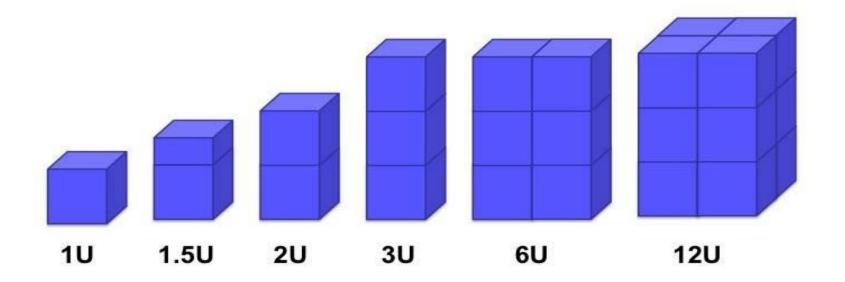
UGA's Leap to Space: Small Satellite Research Lab Testing By Niklas Endler

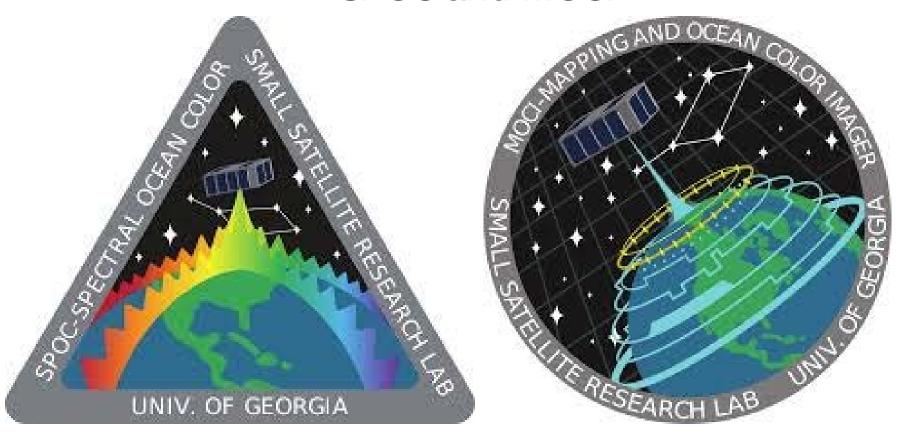
The Team



Small Satellites



SPOC and MOCI

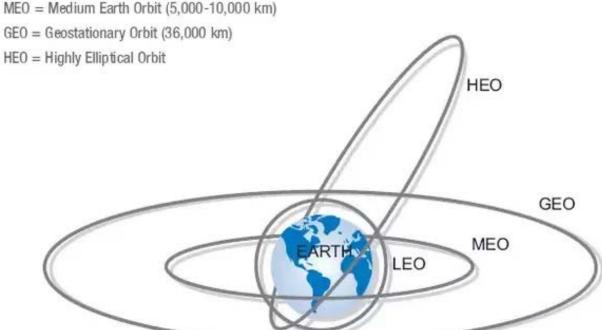


^(Multiview Onboard Computational Imager)

Low Earth Orbit - LEO



MEO = Medium Earth Orbit (5,000-10,000 km)

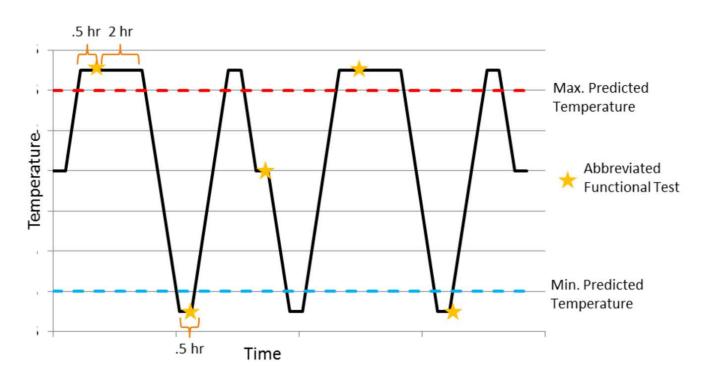


Environmental Factors

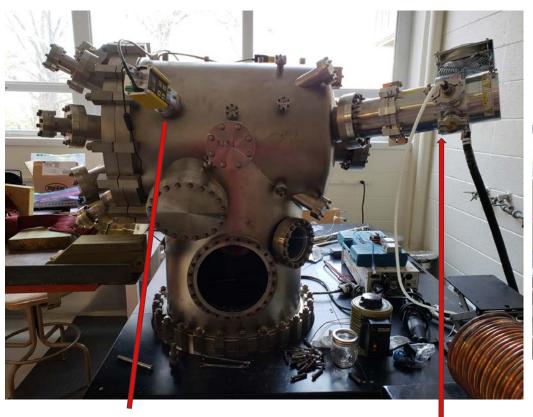
- vacuum
- radiation
- intense and rapid temperature change
- etc



UNP - Testing Standards



The Chamber



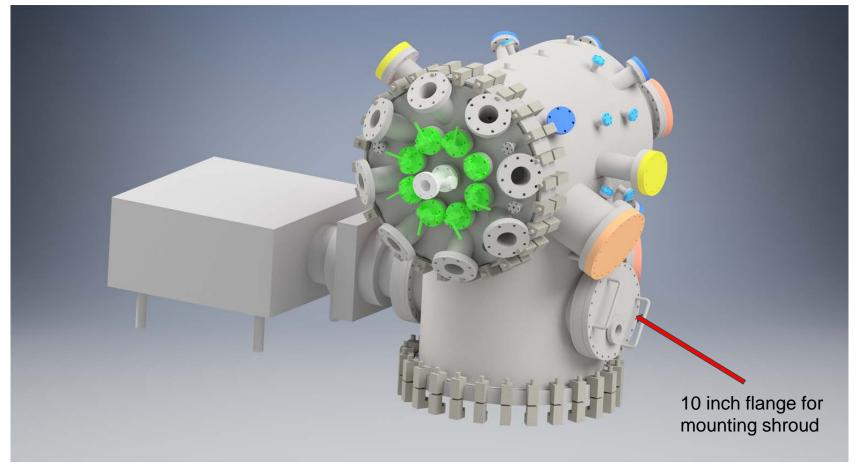
Pressure Gauge

Turbo Pump

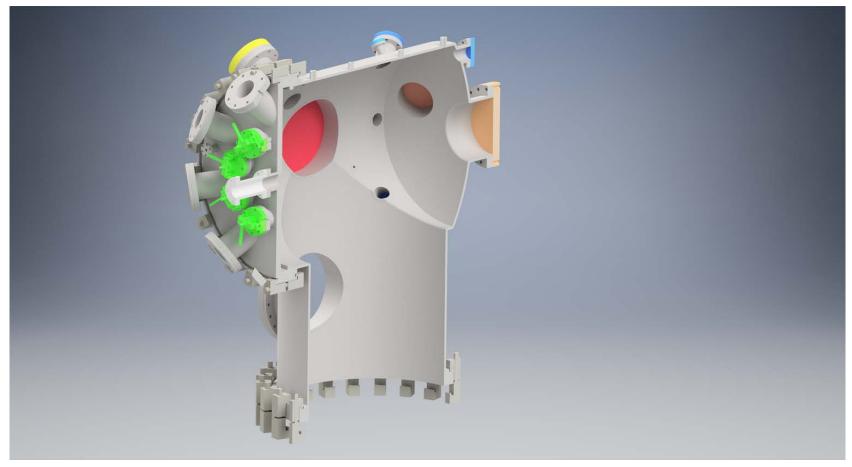


10 inch flange for mounting shroud

The Chamber CAD - Full



The Chamber CAD - Section



Old Concept Designs

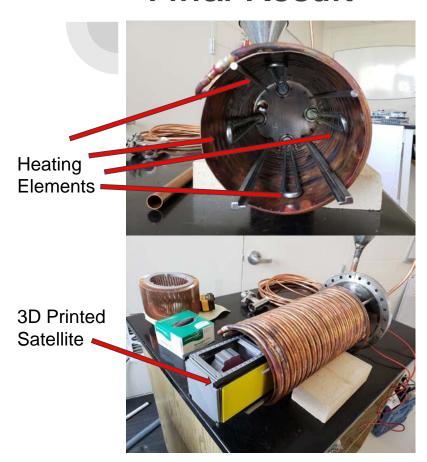


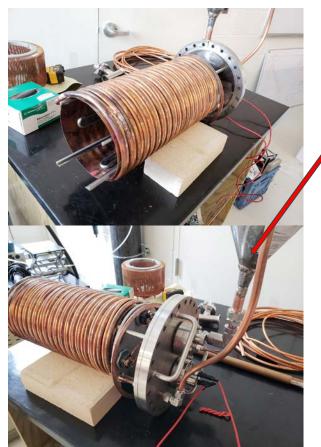


Final Shroud Design



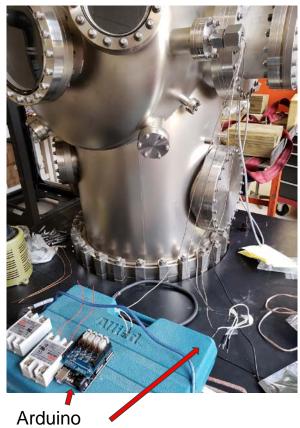
Final Result



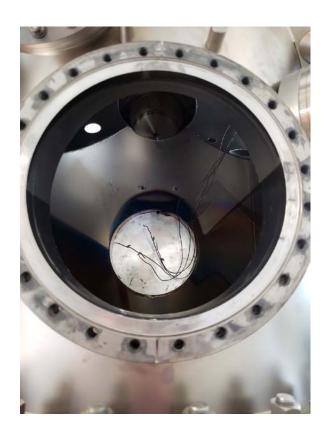


Funnel

Thermocouples



6 wires



Alooking through the 10 inch flange

Next Steps

- Pressure tight vacuum chamber
- Mounted thermocouples
- Run and test thermal shroud performance in nitrogen and vacuum
 - environments
- ^ with satellite



