

Aerospace Engineering Department

Location: HL 218

8:30am

Design and Testing of an Amphibious AUV

Ryan Chesanek, Graham Driscoll-Carignan,
Spencer Granlund, Matthew McMahon, Evan
Russell, Benjamin Twombly
Advisor: Prof. Demetriou

8:50am

RC Aircraft Design for AIAA Design, Build, Fly (DBF) Competition

Elias Monzayet, Bridget Muturi, Carson Murphy,
Troy Santopadre, Wesley Schulz, Richard Shaw,
Jack Robertson, Regina Valencia
Advisor: Prof. Yuan

9:10am

Novel Mobility Solutions for Extreme Lunar Terrain

Benjamin Cobb, Alexa Dahlquist, Michael Gouveia,
Finnian Hamblett, Roman Henry, Joseph
Kuchenmeister, Cristina Perez
Advisor: Prof. Karanjgaokar

9:30am

Aerodynamic and Structural Analysis of the Kaman K-16B

Andrew Carlton, Shannon Daly, Elizabeth Healy,
Naoki Heginbotham, Cyril Ogbebor, Viren Punjabi,
Douglas Shirakura, Akhilesh Yarlagadda
Advisor: Prof. Blandino

BREAK 10 minutes

10:00am

Design, Analysis and Testing of Ionic Wind Propulsion System for an Electric Aircraft

Cailin Borovicka, Colleen Henderson, Cole
Lederman, Ariel Velasquez
Advisor: Prof. Taillefer

10:20am

Design and Testing of a Tethered Underwater Wing

Laurence Clancy, Michael Daton, Holly Perry, John

Radzanowski, Charles Ritchie, Erika Varady,
Zachary Winston
Advisor: Prof. Olinger

10:40am

Design and Analysis of a High-Powered Model Rocket

Nathan Brumble, Robert Doyle, Abigail Duval,
Melissa Kelly, Cameron McAfee, Claire Matthews,
Bryan Silva
Advisor: Prof. Taillefer

11:00am

Design of Thermally Efficient Cryogenic Tanks for Spacecraft

Quentin Collins, Roman Gowie, Alice Kelly, Rayden
Morley, Sean Nuzio, Nathaniel Polus, Janelly
Torres
Advisor: Prof. Jayachandran

BREAK 10 minutes

11:30am

Design of a CubeSat for Identifying, Tracking and Mitigating Space Debris -Part 1

Jackson Neu, Ellie Sherman, Domonic St. Pierre
Advisor: Prof. Taillefer

11:46am

Design of a CubeSat for Identifying, Tracking and Mitigating Space Debris – Part 2

Liam Piper, Ethan Prigge
Advisor: Prof. Demetriou

12:10 am

Coupled Sensor Configuration and Planning with UAVs

Alexandra Ballentine, Joseph Calomo, Jarrett
Gulden, Peter Korfuzi, Jake Letourneau, Thomas
Lamar, Marina Nelson
Advisor: Prof. Cowlagi

12:30pm

Design and Analysis of a Small Sat as a Communication Relay for Venus Atmospheric Probes

William C. Baxter, Gregoire Brougher, Jacob Ewen,
Isaac Garry, George Love, Adam Osgood
Advisor: Prof. Lu