

Aerospace Engineering Department

Location: Higgins Labs 218

8:30am

Fixed Wing Micro-Drone Design for the SAE Aero Design Competition

Ladd Breinholt, Brendan Fainer, Rhick Falcon,
Thomas Joyner, Samuel Neves, Eren Ozcingir, Kelly
Pritchard

Advisor: Prof. Olinger, Prof. Jagtap

8:50am

Design and Analysis of an Actuating Converging Diverging Nozzle for Subscale Testing

Cameron Best, Sophie Brochu, Kate Dobson, Tobias
Enoch, Joshua Garcia, Allison Granger, Daniel Jarvis

Advisor: Prof. Jayachandran

9:10am

Performance Analysis of a Nuclear Reactor Heated Turbine

Cameron Boucher, Hunter Daris, Ana Dykeman, Ellie
Ramirez-Richer, Rashad Stepney, Matthew Urrea,
Elijah Witsenhouse

Advisor: Prof. Blandino

9:30am

Design and Testing of Streams Wing Prototype

Adrian Asante, Miah Bilal, Ian Cody, Eli Landry, Evan
Mandel, and Celeste Vargas

Advisor: Prof. Olinger

BREAK 10 minutes

10:00am

Design and Analysis of a Constellation of CubeSat Radio Telescopes for the Imaging of Saturn's Rings

Mary Laurens, Zevulun Lieberman, Sjoerd Huitema,
Mark Russo, Aquil-Í Rodríguez Plassa

Advisor: Prof. Taillefer, Prof. Demetriou

10:20am

Design and Analysis of a Low-Cost Anti-Missile Missile in Combination with a High-Powered Rocket

Olivia Art, Rachel Campbell, Anthony DeMarco,
Jackie Edwards, Nora Griffiths, Melina Iannacchione,
Reagan Kayhart, Reya Truher, Jonathan Wessler
Daniel Pearson, Domenico Straccia, Beck Carrier
Advisor: Prof. Demetriou, Prof. Taillefer, Prof.
McCarthy (PH)

BREAK 10 minutes

11:00am

Development of an Ionic Wind Propelled Aircraft

Ella Agran, Ryan Correa, Declan D'Aleo, Chris Davis,
Lyle Edwards, Jenner Johnson, Zachary Stahl, Justin
Shen, Luca Scotto

Advisor: Prof. Taillefer, Prof. Cowlagi, Prof. Kafle
(PH)

11:20am

Micro Rover for Mars Ice Core Sample Extraction

Charles Kennedy, Lily Guiliano, Carolina Hernandez,
Skyler Cole

Advisor: Prof. Karanjaokar

11:40am

Tensile SHPB for High-Rate Testing of Aerospace Materials

David Buitrago, Fernanda Calix, John Lambert

Advisor: Prof. Karanjaokar

12:00 pm

Conceptual Mission Design for Titan Sample Return

Matthew Crane, Maxwell Jacobson, Trevor Mohlman,
James Nicoll, Kaitlyn Saidy, Isabela Sugden, Samuel
Wing

Advisor: Prof. Lu

12:20 pm

Design of Morph Wings with Tunable Properties for Ultralight Aircrafts

Serena Dalo, Emre Danabasoglu, Demi Davis,
Benjamin France, Fiona Leitner, Maxwell Maria,
James Watson

Advisor: Prof. Yuan