

AAE520 Tentative Course Projects for 2020

Mostly Revised to Literature Reviews, to Adapt to the COVID-19 Pandemic

Groups 1-6 report on Monday at 1630 U.S. EDT, Groups 7-14 on Wednesday at 1630.

Groups 16-18 report at 0800 EDT Wed., which works for their time zone.

1. Chris Yam and Mark Noftz, Wake Transition at Mach 6
2. Derek Mamrol and Lauren Wagner, Transverse Jet at Mach 6
3. Syed Shoiab, lit review, Supersonic Cavity Flows – Stallings and Wilcox
4. Antriksha Vishwakarma, lit review, Supersonic Cavity Flows
5. Zachary McDaniel, lit review, Shock/Boundary-Layer Interactions with Plasmas
6. Henry Tingle, lit review, Control of Separation using Plasma Perturbers
7. Cole Erny, lit review, Viscous Effects on a Delta Wing at Transonic Speeds
8. Kartik Maheshwari, lit review, Low-Speed Flexible Transport Wing
9. Sharan Rai, lit review, Roughness Effects on Boundary-Layer Transition
10. Prajwal Balasubramani, lit review, Roughness Effects on Turbulent Flat Plate Boundary Layers
11. Jack Molnar, lit review, VTOL experiment
12. Andrew Haines, lit review, Tests of Wings Designed for Minimum Drag
13. Jared Braden, lit review, TBD
14. Brian Reilly, lit review, Formation Flight using F/A-18's
15. ----- the following report at 0800 Wednesdays due to their distant time zone -----
16. Beverly Yeo, lit review + possible expts in Singapore, Vortex Rings Interacting with a Free Surface.
17. Haryl Ngoh, lit review, shock/boundary-layer interaction.
18. Kuzey Isil, lit review, Transonic Airfoil Measurements with FLEET