ATSC5880
Aircraft Instrumentation and Atmospheric Measurements

Final Semester Project, Spring 2020

April 27: 3 presentations
May 4: 4 presentations
May 6: 4 presentations

Student	*Date of Presentation*	*Topic/Notes*
Mohammad Astaneh	May 6, #2	**Flux Measurements**
Dalton Behringer	May 6, #3	**Particle Size Distributions from OAPs**
Hunter Brown	May 6, #1	**AMS (Aerosol Mass Spectrometer)**
Martin Espitalie	May 4, #2	**Dual Polarization Polar Nephelometer (https://hal.uca.fr/hal-00329052/)**
Shelby Fuller	May 4, #1	**PCASP (Passive Cavity Aerosol Spectrometer Probe)**
Coltin Grasmick	April 27, #3	**Rosemount Icing Detector** • Super-cooled liquid water and its consequences for aircraft and instrument icing (2 min) • Rosemount Icing Probe basics - Who uses it and why is it useful? (2 min) • Theory of operation - natural oscillating frequency, accretion cycles, response time (5 min) • LWC estimation considering assumptions and expected instrument behavior (3 min) • Examples from wind tunnels, real flights, and maybe a SNOWIE example if I have time left (5 min) • Summary of Strengths and Weaknesses (1 min)
Yazhe Hu	May 4, #3	**(WCL) Wyoming Cloud Lidar**
Adam Majewski	May 4, #4	**HOLODEC (Holographic Detector for Clouds)**
Thomas Mazzetti	May 6, #4	**Single-Particle Multiple Scattering Probe**
Kevin Shaffer	April 27, #2	**SPEC 2DS Optical Array Probe**
Yingjie (Alice) Shen	April 27, #1	**PAS (Photoacoustic Absorption Spectrometer)**