**ATSC5880 – Airborne Measurements and Instrumentation**

**Spring 2020 – DUE MAY 12 @ 5 PM**

*End Semester Short-Answer Questions*

1. In three or four sentences, briefly describe how the forward scattering technique is used to determine particle sizes for single-particle scattering probes.
2. Briefly describe one type of artifact and its cause that can be present in measurements from Optical Array Probes (OAPs). {Note—there are several artifact types (an image that is not a real particle), here I only ask for one, any one).
3. When referring to single scattering probes (or OAPs, for that matter), what is ‘coincidence’? And how might it impact your measurement?
4. Describe what may be considered a good or a bad location for placing an aerosol inlet on an aircraft, and describe why. Pick any location on the aircraft and describe why you think it might be ‘good’ or ‘bad’.