

## **Particle Characterization: Module 9, Lecture 23**

1. What are the two types of drag?
2. How does drag force depend on particle size in creep flow?
3. How does drag force depend on particle size in  $Re > 1$  flow?
4. Plot drag coef vs  $Re$ .
5. Derive an expression for terminal velocity in low & high  $Re$  ranges.
6. How does terminal velocity depend on particle size in nano-range?
7. Identify & define dimensionless parameter that dictates inertial transport of particles.
8. How does this parameter influence particle deposition on surfaces?
9. Define reference particle mass flux in quiescent flow.
10. Define reference particle mass flux in convective flow.