

## **Particle Characterization: Module 9, Lecture 25**

1. What does thermophoretic velocity depend on?
2. Define Peclet number for thermophoresis in diffusion & convection-dominated cases.
3. Define correction factor for thermophoresis.
4. What is the magnitude of this factor for submicron and supermicron particles?
5. Why isn't it possible to apply a correction factor for inertial effects?
6. What is the magnitude of capture efficiency for submicron and supermicron particles?
7. How can ash fouling in power plants be reduced?
8. Sketch dependence of capture efficiency on surface energy.
9. How does erosion differ from fouling?
10. How does slagging differ from fouling?