Particle Characterization: Module 6, Lecture 15

- 1. What is general dependence of particle adhesion force on diameter, and % RH?
- 2. List some typical particle adhesion forces. Identify ones that are process-specific.
- 3. What parameters do system Hamaker constant and F_{vdw} depend on?
- 4. For a spherical particle interacting with a planar surface, how does F_{vdw} depend on d_p and Z_0 ?
- 5. For a cylindrical particle interacting with a planar surface, how does F_{vdw} depend on d_p and Z_0 ?
- 6. For a one planar surface interacting with another, how does F_{vdw} depend on d_p and Z_0 ?
- 7. How is F_{vdw} affected by intervening fluid?
- 8. How is F_{vdw} affected material type?
- 9. How is F_{vdw} affected by surface roughness?
- 10. How is F_{vdw} affected by time?