Particle Characterization: Module 3, Lecture 7

1. How has the size range of an optical microscope (OM) changed over the years?

2. What are the advantages of OM over SEM?

3. Contrast bright-field & dark-field microscopy.

4. Contrast imaging & scanning modes of surface analysis for particle size distribution.

5. Why is visibility poor in foggy conditions?

6. State the Beer-Lambert law.

7. Can you infer particle size distributions from suspension turbidity alone?

8. What is the relevance of various "X-mean diameters"?

9. As sizes shrink, why do light-scattering based methods lose their utility?

10. How can above problem be addressed, without resorting to microscopy?