Particle Characterization: Module 10, Lecture 27

1. Describe a method for bulk chemical characterization of particles.
2. What are some drawbacks in single-particle analysis?
3. Name 3 types of filters for particle collection from liquids. Which is most suited to microscopic analysis?
4. How can particles in gases be sampled?
5. Sketch a “logical path” for particulate analysis.
6. Identify types of optical microscopic techniques & their applications.
7. What are the lightest elements that can be detected with EDS, with WDS?
8. How can chemical compounds be identified?
9. Contrast SEM & TEM.
10. Contrast SIMS & TOF-SIMS.
11. Contrast FTIR and Raman microcrobe.
12. How can depth profiling of particles be done?