

## **Reading Assignment for Sol-Gel Lectures (February 12 and 17, 2015)**

### **General Background:**

Arun K. Varshneya, Fundamentals of Inorganic Glasses, 1993  
Section 20.3.3. Glassmaking via the Sol-Gel Process, p. 521-529

James E. Shelby, Introduction to Glass: Science and Technology, 2005  
Section 3.7. p. 260

### **Attached Readings:**

[Chapter 7](#) from Nanomaterials: Synthesis, Properties and Applications, ed. A. S. Edelstein and R. C. Cammarata, IoP (UK), 1996, "Processing of nanostructured sol-gel materials," L. C. Klein, pp. 147-164.

[Chapter 1](#) from Sol-Gel Technology: For Thin Films, Fibers, Preforms, Electronics and Specialty Shapes, ed. L. C. Klein, Noyes Publications, Park Ridge, NJ, 1988, "Multicomponent Glasses from the Sol-Gel Process," Ian M. Thomas.

### **Comprehensive Reference:**

Sol-gel Science: The Physics and Chemistry of Sol-gel Processing, C. Jeffrey Brinker, George W. Scherer, Wiley, 1990, 908 pp.