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Dr. Shelby is the author of two books: *Introduction to Glass Science and Technology*, which is widely used as a text, and *Handbook of Gas Diffusion in Solids and Melts*, which is the primary reference for gas diffusion and permeability data in materials. He is also the editor and primary author of "Rare Elements in Glasses" and approximately 300 journal and proceeding articles. His primary research has been in gas and water diffusion and solubility in glasses and melts, properties, phase separation and crystallization of glasses, radiation effects, colloid formation in glasses, and the development of new and unusual glass compositions.