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Prof. Sheldon teaches undergraduate and graduate courses in Materials Science. His research focuses on processing and mechanical behaviour of ceramic thin films, coatings, and nanocomposites. This work has been reported in more 100 research publications in international journals, and more than 50 invited lectures and presentations at international and national conferences. He has supervised or co-advised 23 doctoral students and 15 post-doctoral associates. Twelve of these individuals currently hold faculty positions. His research has been supported by the National Science Foundation (continuous funding for more than 20 years), the U.S. Department of Energy, NASA, the Air Force Office of Scientific Research, the Army Research Office, DARPA, the Korea Institute of Machinery & Materials, and several major corporations.