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Maurice is a Professional Engineer and teaches Geological Engineering at the University of Waterloo. He carries out research in deep underground engineering issues including oil production, hydraulic fracturing, energy storage, geothermal energy, carbon sequestration, and deep injection disposal of granular solids and liquid wastes (including biosolids, oilfield wastes, and civil wastes). He holds over 90 international patents, has about 600 full-text papers published in journals and conferences and has taught Petroleum Geomechanics short courses in 28 countries. He is involved in energy technologies that can be downscaled to community levels to provide robust and reliable heat and power: geothermal, natural gas approaches, compressed air energy storage, and heat geo-storage. Many of the general energy processes he works on involve hydraulic fracture implementation to generate communication, or analysis to prevent hydraulic fracturing onset. He has served as the hydraulic fracturing expert on Panels in Nova Scotia, Newfoundland, Quebec, the Federal Government, and New Brunswick.

