Jay S. Meldrum has served as the Executive Director of Michigan Technological University’s (MTU) Keweenaw Research Center (KRC), in Houghton, Michigan, since July 1997. KRC is an applied research center at MTU and employs approximately 30 scientists and engineers to provide a wide range of applied research services to clients in government and industry. He is also an active member of SAE International and has served on the Board of Directors (2014-2016). Meldrum is the lead organizer for the annual SAE Clean Snowmobile Challenge, a Collegiate Design Series Competition, since 2003 that promotes the redesign of snowmobiles for lower emissions, lower noise output, and better fuel economy. Meldrum has advised an Alternative Energy Student Enterprise project at MTU since 2006, which has engaged student teams on projects including fuel cells, micro-hydro, solar panels, geothermal heating using water from abandoned mine shafts, battery storage, bio-fuels from woody biomass, and natural gas fired generators. Efforts from this student enterprise are implemented and studied at the Center’s buildings for their efficiency and cost savings potential. Recent efforts involve reducing the high cost of energy at the Center through implementing a mine water geothermal heating/cooling system, a large solar panel installation, investing in energy efficiency, and exploring other opportunities for energy generation.