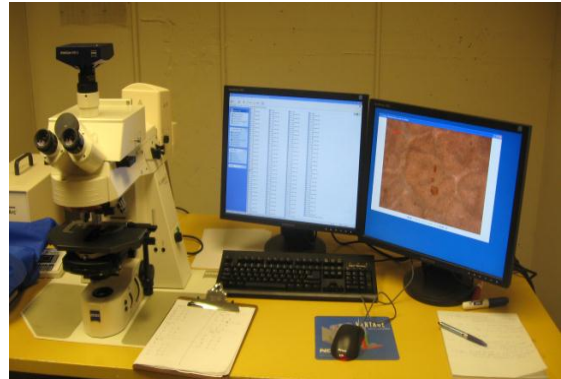


Martin Tango, PhD. P.Eng, Acadia University



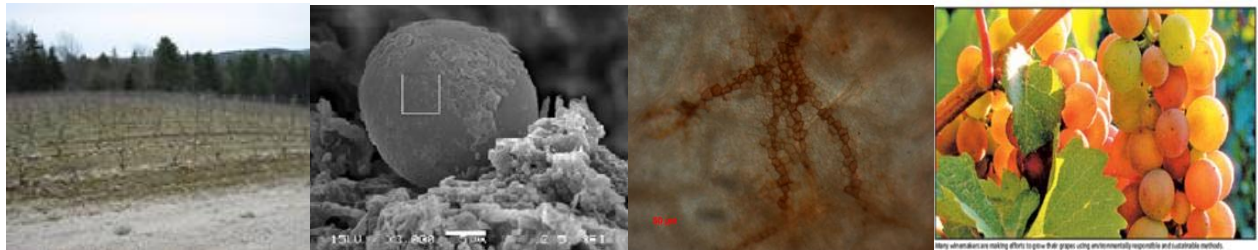
Dr. Martin Tango is an Assistant Professor at the School of Engineering, Acadia University. He is involved in teaching, applied research and community outreach programs. Dr. Tango utilizes emerging strategies to improve students' engagement, service learning and better knowledge delivery.

Earlier in his professional engineering career related to agricultural industry, Dr. Tango was engaged in design and development of small and medium scale machinery for post-harvest grain/seed processing and storage. This career path also provided an enormous knowledge-base and experience in plant agronomy and pathology, seed coating technology, as well as selection of effective fungicides, herbicides and insecticides chemicals for crop protection in tropical climate.



Website: <http://www.acadiau.ca/~mtango/index.htm>

Over the years, Dr. Tango has been actively engaged in research related to environmental applications of microbial polymer in soils sealing; heat and mass transfer in liquid and solid-state fermentations; application of advanced oxidation processes for improvement of process water quality in chemical and aquaculture systems; role of extremophiles in industrial biotechnology; management and treatment of produced water from petroleum extraction processes.



Most recent research initiatives include: exploring the dispersion and eco-toxicity of antifouling compounds from marine structures; assessing the toxicity of nanoparticles; applications of biosensors for eco-corrosion monitoring on offshore energy structures as well as bioindicators for monitoring toxic pollutants in salt marsh sediments; water/wastewater filtration processes using biomaterials; sustainable energy sources; characterization of materials using scanning electron microscopy; and embraces the use of environmental biotechnology for the production of biochemical.

Dr. Tango is currently involved in a collaborative research service with Petite Rivière Vineyard and Winery on enhancing soil buffering capacity and plant infection control strategies for vibrant viticulture growth. Some of the specific research activities include soil sampling and analyses, evaluation of optimum conditions for soil microbial consortium and microrhizae, formulate appropriate strategies to enhance soil nutrient transport to grape plants, establish plant pathogen control management protocols using non-toxic and environmentally compatible chemical formulations. In addition, he has keen interest in establishing the application biotechnology in handling by-products of winery production process and exploring the potential of biocontrol agents that are sustainable and compatible to organic viticulture.