



**Organic Waste Management: from TREATMENT to
RESOURCE RECOVERY**

Dr. Ehssan Koupaie/Queen's University

Thursday, March 24, 2022, 2:30pm

Dupuis Hall, Room 215

We live in a world in which both energy systems and waste management practices are undergoing change. The threat of climate change due to the release of greenhouse gases, along with soaring energy demand and natural resource depletion, are major driving forces behind the creation of more sustainable waste management strategies. As a result, there has been a paradigm shift from “TREATMENT” to “RESOURCE RECOVERY” in the field of waste and wastewater management. In this seminar, Dr. Koupaie will share his experience over the last 15 years on the application of bioprocess engineering for organic waste treatment and energy and resource recovery. The talk will include examples of technologies such as attached-growth biofilm processes, pre-treatment technologies, anaerobic digestion, and dark fermentation.