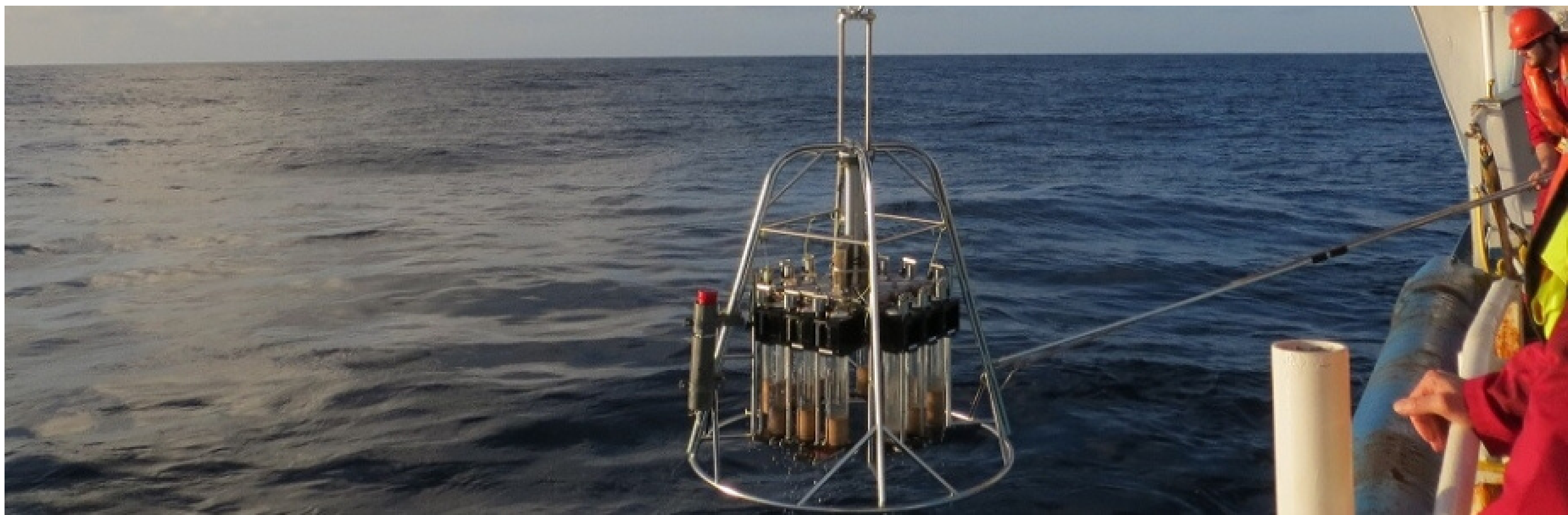




Prof. Nagissa Mahmoudi

**Department of Earth and Planetary Sciences
McGill University**

What's on the menu? Investigating the selective diet of microbes using novel isotopic tools



Marine sediments cover almost ~75% of the Earth's surface and are one of the largest global reservoirs of organic carbon. Microorganisms play a primary role in the decomposition of organic matter in marine sediments. Consequently, the activity of these microorganisms can have profound impacts on both local and global biogeochemical cycles. In this presentation, I will focus on new insights into the dynamics of microbial carbon cycling in marine sediments using novel isotopic approaches and explore how microbial metabolic potential can influence the fate of carbon in the ocean.