



Wolfson Department of Chemical Engineering Seminar

Lecture Hall 6, Wolfson Department of Chemical Engineering,

Wednesday May 3rd at 1:30pm

Dr. Matthew Suss

Assistant Professor, Mechanical Engineering

Technion

Flow electrochemical systems for grid-scale energy storage and water desalination

Flow electrochemical systems, such as flow batteries and capacitive deionization cells, are emerging as promising technological solutions for the challenges of providing clean energy and water. I will describe our lab's work towards developing next-generation zinc-bromine flow batteries for large scale energy storage and capacitive deionization cells for brackish water desalination. In particular, I will describe our work in innovating high performance multi-phase flow electrodes, such as fluidized bed electrodes, and their performance in energy storage and water desalination cells.

Refreshments will be served at 13:15