



## Sustainable Energy Seminar Series

# Applications of Adsorption Processes for Sustainable Energy Sources

This talk will summarize the research carried out by Dr. Tezel and her group at University of Ottawa in the Department of Chemical and Biological Engineering. After a brief introduction to adsorption processes, their application in carbon capture and recycle, renewable fuels production, and thermal energy storage for solar and waste heat applications will be discussed. Examples will include removal of greenhouse gas carbon dioxide and its conversion to synthetic fuel, production of natural gas from landfill gas from garbage, production of bio-alcohols from agricultural waste (to be blended into gasoline) and using adsorption for thermal energy storage.



**Dr. F. Handan Tezel**  
Professor, Department of Chemical and  
Biological Engineering, University of Ottawa

October 10<sup>th</sup>  
5:45 - 7:30pm  
Dunton Tower 2017  
Carleton University

5:45-6:00 Meet the speaker  
6:00-6:45 Presentation  
6:45-7:30 Q&A

Jointly presented by the  
Carleton Sustainable Energy  
Research Centre and  
the Department of Mechanical  
and Aerospace Engineering.