## CLEAN TECHNOLOGIES RESEARCH INSTITUTE RESEARCH DAY AND ANNUAL GENERAL MEETING

## Thursday, August 11, 2022 Theatre B, Tupper Link Dalhousie University, Halifax

8:30 – 9:00 am	Registration
9:00 – 9:15 am	Welcome and Opening Remarks
	Chair: Nur Zincir-Heywood
9:15 – 9:45 am	Andrew Medeiros School for Resource and Environmental Studies
	Monitoring Stressors to Freshwater Ecosystems; the New Paradigm of Deep Learning and Computer Vision Approaches to Bioassessment
9:45 – 10:15 am	Tushar Sharma Faculty of Computer Science
	Looking at Deep Learning Frameworks Through Sustainability Lens
10:15 – 10:45 am	Evangelos Milios Faculty of Computer Science
	Machine Learning for Materials Science Research: Text mining, Structure-Property mapping, and Physical-ML model integration
10:45 – 11:00 am	Break
	Chair: Michelle Adams
11:00 – 11:30 am	Fadi Oudah Civil and Resource Engineering
	Structural Design and Safety Using Biochar Concrete
11:30 am – 12:00 pm	Alison Scott Process Engineering and Applied Science
	Prescriptions to Inform the Design of Polymeric Materials
12:00 – 12:45 pm	Lunch
12:45 – 1:15 pm	CTRI Annual General Meeting
1:15 – 1:30 pm	Break

**Chair: Mary Anne White** 

1:30 – 3:00 pm Keynote talk

Jeff Dahn

Physics and Atmospheric Science

The Role of Energy Storage in the War on Climate Change

3:00 - 3:15 pm Break

**Chair: Chongyin Yang** 

3:15 – 3:45 pm Penghao Xiao

Physics and Atmospheric Science

Li Transport in Defected Layered Oxides from First Principles:

**Diffusion and Nucleation** 

3:45 – 4:15 pm Shayne Gracious

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the Years

4:15 – 4:30 pm Closing remarks

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