

Seminar Series

Fall 2018

Civil and Environmental Engineering Seminars

The Civil and Environmental Engineering Seminar is an excellent opportunity to learn about exciting projects in the field. Seminars include research and practical topics and are given by alumni, professionals, and academics working in the fields of civil and environmental engineering.

Unless listed otherwise, all Civil and Environmental Engineering seminars are on Fridays from 12-1pm in Nelson Auditorium, 112 Anderson Hall, Tufts University, Medford campus. Each seminar is followed by a social hour with pizza.

NOTE: This is an archived list. Current faculty profiles can be viewed at <https://engineering.tufts.edu/cee/people/faculty>.

Current seminars can be viewed at <https://engineering.tufts.edu/cee/news-events/seminars>.

September 7, 2018	Title: Seminar Kick-off - Meeting with 291 Students Speaker: No speaker Time: 12:00 PM Location: Nelson Auditorium (Anderson 112)
September 14, 2018	Title: Conducting a Detailed Literature Review Speaker: Liz Settoducato (Library) Time: 12:00 PM Location: Nelson Auditorium (Anderson 112)
September 21, 2018	Title: A Thermomechanical Breakage Model for Shock-loaded Granular Media Speaker: Miles Rubin (Technion) Time: 12:00 PM Location: Nelson Auditorium (Anderson 112)
September 28, 2018	Title: Contextualizing Flint Disinfection Byproducts Speaker: Joe Goodwill (URI) Time: 12:00 PM Location: Nelson Auditorium (Anderson 112)
October 5, 2018	Title: A Computational Investigation of Electro-Mechanical Coupling in Neural Engineering Speaker: Ilaria Cinelli Time: 12:00 PM Location: Nelson Auditorium (Anderson 112) ABSTRACT: <i>Recent published experimental evidence has uncovered complex biophysical phenomena accompanying the electrical activity of nervous cells, where the Action Potential is shown to be an electro-mechanical phenomenon.</i> <i>This work aims at broadening the understanding of the electro-mechanical neural activity in relation to brain injuries. Focus is given to injuries that initiate Diffuse</i>

	<p><i>Axonal Injury (DAI), a progressive pathogenesis that induces damage at the cellular level.</i></p> <p><i>The research is based on a coupled 3D electro-mechanical modelling framework to investigate the interaction between neural electrical activity and neural structural mechanics, in the context of finite element analysis, with application to the simulation of DAI-induced electrical changes following brain injury.</i></p> <p><i>This work considers the electro-mechanical behaviour of nerve fibres and fibre bundles, both with and without the myelin layer. The results of the simulations indicate that the structure and the size of the nerve fibre is critically important in determining its electro-mechanical behaviour, particularly for clinical applications.</i></p>
October 12, 2018	<p>Title: Microbial Colonization and Sustenance in Fractured Shale Speaker: Paula Mouser (University of New Hampshire) Time: 12:00 PM Location: Nelson Auditorium (Anderson 112)</p>
October 19, 2018	<p>Title: How well are sediment remediation efforts working? Speaker: Loreta Fernandez (Northeastern) Time: 12:00 PM Location: Nelson Auditorium (Anderson 112)</p>
October 26, 2018	<p>Title: Enabling Next-Gen Water Treatment and Resource Recovery through Novel Online Sensing using Machine Learning Speaker: Amy Mueller (Northeastern) Time: 12:00 PM Location: Nelson Auditorium (Anderson 112)</p>
November 2, 2018	<p>Title: Flow and Transport in Porous Media: Applications in Environment and Energy Speaker: Christophe Darnault (Clemson) Time: 12:00 PM Location: Nelson Auditorium (Anderson 112)</p>
November 9, 2018	<p>Title: Seminar with Jim Moore (Acentech) Speaker: Jim Moore (Acentech) Time: 12:00 PM Location: Nelson Auditorium (Anderson 112)</p>
November 16, 2018	<p>Title: TBA Speaker: Desiree Plata (MIT) Time: 12:00 PM Location: Nelson Auditorium (Anderson 112)</p>
November 30, 2018	<p>Title: Learning and flexibility in water and food systems planning under uncertainty Speaker: Sarah Fletcher (MIT) Time: 12:00 PM Location: Nelson Auditorium (Anderson 112)</p>
December 7, 2018	<p>Title: Investigation of Building Settlement due to Adjacent Construction and Remediation Measures of st Francis Hospital and Medical Center, Hartford, CT</p>

	<p>Speaker: Giuliana Zelada (SGH) Time: 12:00 PM</p>
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