UNIVERSITY OF RHODE ISLAND
Department of Chemistry
VIRTUAL SEMINAR

3:00 PM, Monday, February 8, 2021
Please email Jason_dwyer@uri.edu or blucht@uri.edu for link

Prof. Leila Deravi

Barnett Institute for Chemical & Biological Analysis;
Chemistry and Chemical Biology
Northeastern University

"Protein-integrated Electronics: From Molecules to Machines"

HOST
Jason Dwyer
Department of Chemistry
401-874-4648

Prof. Leila Deravi
Barnett Institute for Chemical & Biological Analysis; Chemistry and Chemical Biology; Northeastern University

Protein-integrated Electronics: From Molecules to Machines

Abstract: We are developing chemo-mechatronic systems, structures, and machines that can transduce signals between the chemical, mechanical, and electrical domains in natural systems to produce intelligent behaviors in response to external stimuli. Inspired by systems spanning from how tissues build themselves to how animals camouflage, I will discuss our molecular-level approach to building new materials that can produce controllable transformations in response to specific chemical inputs for applications ranging from colorimetric sensors to implantable electronics.