

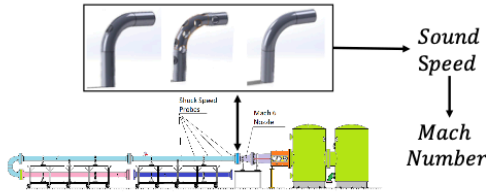
# 2023 INTERDISCIPLINARY REU/RET IN SUSTAINABLE ENERGY AND BIOENGINEERING



REU/RET Site # 2050901

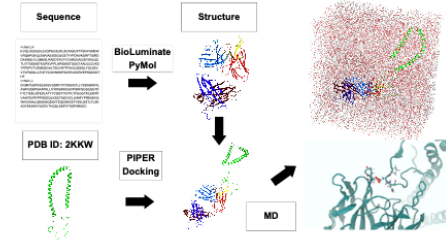
## Sound Speed Determination Using a Helmholtz Resonator in The Stevens Shock Tunnel

Jason G. Cakert & Dr. Nicholas Parziale

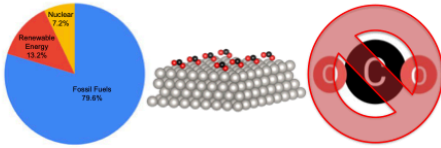


## You've Got the Power! EmPowering Students to Address our Energy Needs by Designing Batteries.

Gary DiFilippo

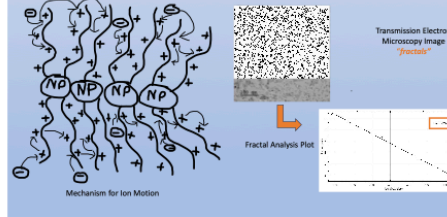


## Conquering Climate Change and Carbon Crimes: Classroom Catalysts By Celine Mileham

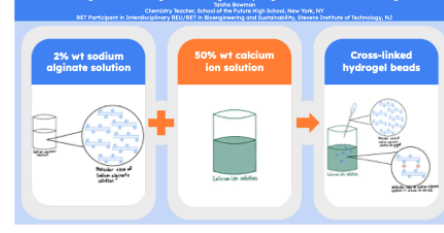


## Investigating Poly(Ionic Liquid)-Grafted Nanoparticles in Organic Solvents and Ionic Liquids

Deniz Bulucu, Ruhao Li and Pinar Akcor

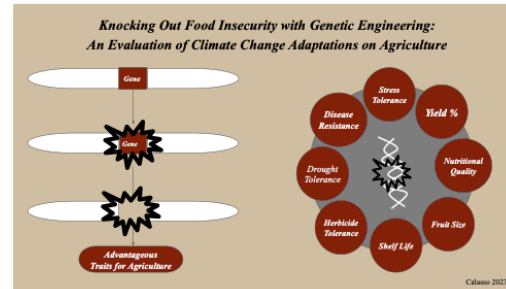
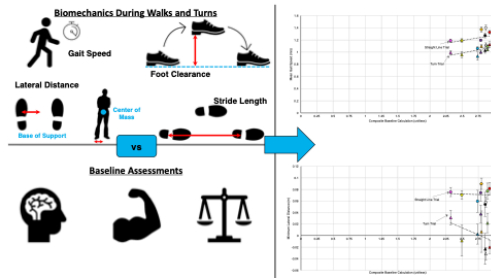
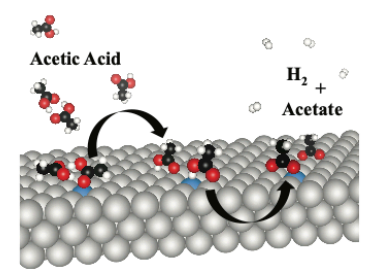


## Ionic Investigation: Using the cross-linking of sodium alginate hydrogels to introduce ionic bonding



## Design of Pt-based Bimetallic Catalysts for the Conversion of Biowaste to Green Hydrogen

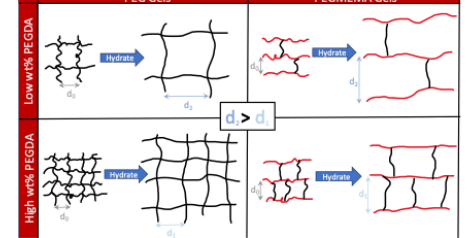
Emily Whitley and Prof. Alyssa Hensley



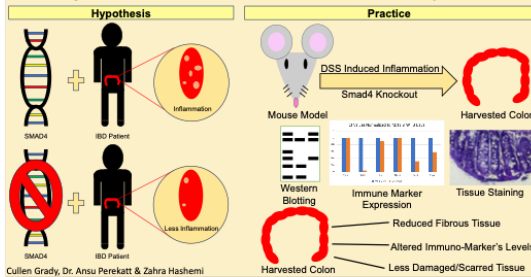
## The Effect of Crosslinker Concentration on the Swelling of Poly(ethylene glycol) (PEG)-based Hydrogels

Cassy Dolan and Matthew Libera

Department of Chemical Engineering and Materials Science, Stevens Institute of Technology, Hoboken, NJ, USA

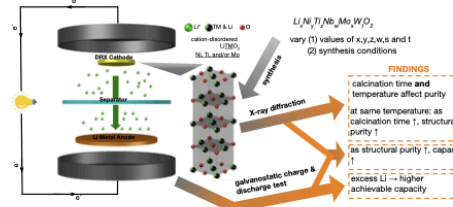


## Anti-Tumorigenesis Effects of Smad4 Knockout on Colons Within Mice Artificially Inflamed via DSS



## Designing cation-disordered rock salt materials for electrochemical lithium storage

Eden Chen, Diana Yeh, Dr. Jae Chul Kim



## Polycaprolactone Scaffolds Decorated with Poly(acrylic acid) Microgels for Tissue Engineering

Revikka Agababaeva, Reem Ulay

