Fabrication of Functional Hierarchical Materials with Graphene Oxide

Krishanu Nandy¹, Karl Putz², SonBinh T. Nguyen³ and L. Catherine Brinson¹,²

¹Mechanical Engineering, ²Material Science and Engineering and ³Chemistry
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- **Motivation:** To develop a new class of materials with the ability to fine tune properties from the nanometer to the tens of micrometer scale.

- **Approach:** Demonstrate a toolbox of techniques to tailor graphene oxide paper properties as building blocks for the design of multifunctional hierarchical materials.

- **Results:** A synthetic material, mimicking the structure of fish scale armor was fabricated by means of the toolbox of methods, namely cofiltration, fusion and infiltration.