CNM Workshop 2: Current Trends and Opportunities in Nanobiointerface Materials

Wednesday, May 4

- 9:00 9:20 Introduction
- 9:20 10:00 Darrin Pochan (University of Delaware) Biomolecules for Non-biological Things: Polymer Construction through Peptide 'Bundlemer' Design and Solution Assembly
- 10:00 10:40 Rohit Batra (Center for Nanoscale Materials, Argonne National Laboratory) Artificial Intelligence-guided Discovery of Self-assembly Peptide Sequences Using Monte Carlo Tree Search and Coarse-grained Simulations
- 10:40 11:20 Byeongdu Lee (Advanced Photon Source, Argonne National Laboratory) Use of X-ray Scattering for Assemblies of DNA Functionalized Nanoparticles
- 11:20 12:00 Murali Ghantasala (Western Michigan) 3D Printed PLA and ABS Lab-on-chip Structures for Cell Growth Studies
- 12:00 1:00 Break
- 1:00 1:40 Adam Gormley (Rutgers University) Machine Learning-guided Robotics for the Data-driven Design of Soft Materials
- 1:40 2:20 Jie Xu (Center for Nanoscale Materials, Argonne National Laboratory) Autonomous Robotic Platform (PolyBot) for Controlled Conjugated Polymer Processing
- 2:20 3:00 Julia Ortony (Massachusetts Institute of Technology) *Reactive Supramolecular Nanostructures*
- 3:00 3:40 Peter Maurer (University of Chicago) Quantum Sensing: Probing Biological Systems in a New Light
- 3:40 Closing Statements