



Professor Benjamin McDonald **Brown University**

Friday, April 14, 2023

12:30AM-2:30PM—Panel Session w/ Students
On-site—CCB 1203

4:00—5:30PM—Speaker Seminar Presentations
On-site—CCB 1303
Virtual—Zoom*

Host: Professor Kate Waldie

“Designing Biomimetic Organochemical Systems: A Journey from Small to Megamolecules”

Efforts to mimic the interactions and reactions of organic molecules in biological systems has played a central role in inspiring chemical research and has had broad technological impacts in key areas such as chemical synthesis, biomedical research, and materials science. We'll examine how this paradigm can inspire and drive the career of a single scientist, beginning from their graduate studies to developing their own independent research program. While each career step has corresponded in a substantial increase in molecular length scale, the theme of bioinspired molecular design has remained constant. We'll discuss the development of new organic reactions, the design of polymeric materials for chemical-warfare agent responsive systems, and the de novo construction of polymeric nanoparticles designed to mimic the behavior of nature's structural materials.

**For Zoom information, please contact Loretta Lupo @ lal275@chem.rutgers.edu*