



UMD Department of Chemistry & Biochemistry  
Fall 2021 Seminar Series  
Friday, October 8, 2021  
3:00 p.m. ~ Chem 200

## DR. SURYA BANKS

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THE COLLEGE OF ST. SCHOLASTICA  
HOST ~ DR. STEVEN BERRY

### *Applications of Synthetic Chemistry: From Biomaterials and Environmental Science to Molecular Electronics*

The extent of synthetic organic chemistry is pervasive in every aspect of our society today. However, this applied science is no longer exclusive to one laboratory and has evolved into an exciting multidisciplinary and collaborative quest of our material environment.

This talk touches upon some of the interdisciplinary collaborative research projects ranging from a viable proof of chemically modified alginate microcapsules as controlled drug delivery mediums, to search for structure activity relationships on rectification ratios of self-assembled monolayers of benzalkylsilanes on SiO<sub>2</sub> substrate.

Projects on use of chemically modified biopolymers for environmental chemistry and organometallic oligomers/polymers with potential optoelectronic applications will also be highlighted.

