

WESLEYAN UNIVERSITY
CHEMISTRY COLLOQUIA SERIES

DR. ADRIAN FIGG

VIRGINIA TECH

Acrylic Copolymer Structures from
Photoredox-Mediated RAFT
Polymerizations

Friday, September 13th
3:30 p.m. to 4:30 p.m.
ESC 058



*Refreshments served outside
ESC 058 before and after the
seminar*



Acrylic Copolymer Structures from Photoredox-Mediated RAFT Polymerizations

Controlled polymerization techniques (e.g., reversible addition-fragmentation chain transfer (RAFT) polymerization) provide access to defined copolymer structures where block sequence, monomer composition, and architecture can be readily tuned. Herein, syntheses approaches will be discussed that take advantage of photoinduced electron/energy transfer (PET) catalysis to control mechanisms of radical introduction. For example, defined structures with more precise control over monomer placement and sequence will be discussed. Additionally, inherently photoactive enzymes will be introduced that can mediate RAFT polymerizations. Overall, new synthetic design considerations for acrylic polymers using RAFT polymerization will be discussed.

