

SCIENCE SEMINAR

FRIDAY, OCTOBER 29
KNOTT HALL 309
3PM

MIMICKING MOTHER NATURE IN THE LAB

JESSE D. MORE, PH.D.
ASSISTANT PROFESSOR OF CHEMISTRY
LOYOLA UNIVERSITY MARYLAND

CHEMICAL SYNTHESIS, THE SCIENCE OF PRODUCING MOLECULES IN THE LAB USING SEQUENCES OF CHEMICAL REACTIONS, ALLOWS THE CHEMIST TO MAKE ALMOST ANY MOLECULE THAT EXISTS OR THAT CAN BE IMAGINED. THIS FIELD HAS POSITIVELY IMPACTED HUMANKIND BY ENABLING THE PREPARATION OF MOLECULES USEFUL IN AREAS AS DIVERSE AS BIOLOGY, MEDICINE, NANOTECHNOLOGY, AND MATERIALS SCIENCE. IN THIS TALK I WILL GIVE AN INTRODUCTION TO THE EXCITING FIELD KNOWN AS NATURAL PRODUCTS SYNTHESIS, IN WHICH CHEMISTS ATTEMPT TO RE-CREATE NATURE'S MOLECULES IN THE LAB. I WILL ALSO PRESENT MY OWN RESEARCH WHICH HAS CULMINATED IN THE SYNTHESIS OF THE NATURAL PRODUCT DIOSPONGIN A.

REFRESHMENTS WILL BE SERVED