

The Department of Chemistry and Biochemistry

Seminar Series

Presents a Seminar Titled:

“Adventures with Methionine”

Presented By



Dr. Michelle O. Fletcher Claville

Assistant Dean for the School of Science,

Associate Professor of Chemistry

Hampton University

As a fundamental physical organic chemist, Dr. Claville typically explored the reactivity of novel reactive intermediates that derived from organic molecules which may, or may not, have biological relevance. Her graduate research led her to the world of *distonic radical ions* (species that have separate charged and radical sites) which reportedly may derive from certain amino acids exposed to ionizing irradiation. Upon entering the professoriate, further curiosity led her to discover that these species may be implicated in the one electron oxidation of methionine and methionyl derivatives. The continued study of the oxidation of methionyl species have recently led to physical studies involving the behavior of certain methionyl substrates and other amino acids in the presence of various nanoparticles. In her seminar, Dr. Claville will give an overview of this journey, while highlighting some notable treasures found along the way.

Friday, March 21, 2014 at 3:00 p.m. in OCNPS 100