



UAA Professional Development Seminar Series

Photoreactivity of Petrogenic Dissolved Organic Matter

Presented by Phoebe Zito, Assistant Professor, University of New Orleans

The two largest contributors of oil entering the marine environment are from natural oil seeps (47%) and anthropogenic sources (53%). Once petroleum enters the environment, i can undergo many chemical and physical changes. Due to its dark coloptically active (contains many chromophores) and can undergo photodegradation, which is an important weathering process in the environment. These photodegradation processes result in the formation of oxyhydrocarbons, petroleum compounds formed upon weating. Some oxyhydrocarbons are polar enough to dissolve into the water, becoming highly mobile and bioavailable to the ecosyster Methodologies and techniques of waterthat are affected by organic contaminants.

Phoebe Zitcis an Assistant Professor in the Chemistry Department at the University of New Orleans. She specializes in studying the photochemical formation and fate of petroleum derived dissolved organic matter. Phoebe has a B.S. **therb** niversity of South Florida (2007), and worked as an Associate Chemist in the pharmaceutical industry **2(200)**? She earned her P.D. from the University of New Orleans (2014), was a **potest** oral associate at the National High Magnetic Field Laboratory (**20203** 7), and has been working in the environmental analytical field since 2017.

Friday, Septembe6, 2019 11:45 am- 12:45 pm UAACollege of Engineering, EIB 211