



# ANALYTICAL SEMINAR

Presented by  
**PROFESSOR TIM BERTRAM**

## *“Atmospheric Chemistry in Polluted Coastal Air: Unique Constraints from Field Measurements”*

Over half of Earth’s population lives within 200km of the ocean. As a result, coastal regions represent a critical environment where pollutants from urban centers interact with halide rich interfaces. Of specific interest is the coupling of the reactive nitrogen and chlorine cycles that can result in the activation of chloride to photolabile chlorine reservoirs at the air-ocean and air-particle interface. Application of chemical ionization mass spectrometry to the selective measurement of trace gases at sub parts per billion mixing ratios will be discussed. This talk will focus on unique ship and pier based observations of gas-phase reactive nitrogen and halogen reservoirs for constraining chlorine atom production rates in coastal regions.

Thursday

September 17

12:15 p.m.

1315 Chemistry



DEPARTMENT OF  
**Chemistry**  
UNIVERSITY OF WISCONSIN-MADISON