

# UConn

## UNIVERSITY OF CONNECTICUT

Department of Marine Sciences  
Presents a Seminar by

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Georgia Tech

### **Carbon Dioxide and Climate: Tales from the Last Ice Age**

During full glacial periods, such as the last ice age, atmospheric carbon dioxide was substantially lower than during inter-glacial periods, including the pre-industrial past. In this talk I will first explore why glacial carbon dioxide concentrations were lower, focusing on the role of nutrient utilization in deep water formation regions. I will also show how reconstructions of pre-formed phosphate concentrations in deep water during the last ice age support this idea. The lower glacial carbon dioxide concentrations led to lower global temperatures and other changes in climate. I will show how tropical temperature reconstructions can help to constrain the sensitivity of the climate system to changes in radiative forcing provided by greenhouse gases.

**Host:** David Lund

**Time & Date:** 11:00 am, Friday, February 9, 2018

**Place:** Marine Sciences Building, Seminar Room 103

For cancelations and additional seminar information, please see <https://marinesciences.uconn.edu/seminar/seminar1183/>, email [marinesciencesseminars@uconn.edu](mailto:marinesciencesseminars@uconn.edu), or call 860-405-9152 or 860-405-9151