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Department of Marine Sciences
Presents a Seminar By

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Uncovering the mechanisms of phytoplankton response to rising CO₂

Phytoplankton are responsible for about half of primary production on the planet. As CO₂ levels rise, phytoplankton are facing an unprecedented shift in ocean chemistry. How they acclimate and adapt to this changing chemistry will be crucial for determining the future ecology and carbon cycle of the oceans. By measuring changes in physiology of phytoplankton cultures we find that nutrient limitation and microbial interactions play important roles in determining the response of phytoplankton to elevated CO₂. Gene expression data reveal how phytoplankton sense and acclimate to rising CO₂ as well as providing us with important clues about the mechanisms of carbon concentration. These results are important for forecasting changes to the marine ecosystem and biogeochemical cycles over the coming century.

Host: Hans Dam

Time & Date: 11:00 am, Friday, January 27, 2017

Place: Marine Sciences Building, Seminar Room 103

Please see this [page](#) for cancelations and additional seminar information,
email marinescienceseminars@uconn.edu, or call 860-405-9152 or 860-405-9151