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## Department of Marine Sciences
## Presents a Seminar by


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# From biogeography to functional genomics: harnessing Next Generation Sequencing in the key planktonic copepod genus *Calanus*


*Calanus* species dominate the zooplankton biomass in the North Atlantic and Arctic Oceans where they play a key role as grazers and as prey for many species. Because of their ecological importance, *Calanus spp*. are the most studied planktonic species. Nonetheless many large knowledge gaps have remained. Using emerging Next Generation Sequencing technologies, we have developed new molecular tools to redefine some of our basic knowledge of the genus. From biography, speciation, population structure to functional genomics, our work highlights the importance to integrate molecular tools into classical biological oceanography. However, the key questions remains: “what makes the genus so successful in the North Atlantic?” and the key most likely lies in there large, complex genomes.


**Host**: Ann Bucklin
**Time & Date**: 11:00 am, Friday, March 2, 2018
**Place**: Marine Sciences Building, Seminar Room 103

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