

Welcome to the Crafoord Academy Lecture 2019

## Climate, CO2, and Sea Level: What's Past is Prologue

Maureen E. Raymo, Lamont-Doherty Observatory, Columbia University, USA

Tuesday 3 December 2019 at Lund University Main Auditorium, Universitetshuset, Paradisgatan 2, Lund

The Earth is warming up. The on-going pollution of our atmosphere with an invisible odourless gas called carbon dioxide, is trapping heat at the Earth's surface and causing temperatures to rise on land and in the ocean. The polar regions are warming fastest of all as reflective snow and ice is replaced by more heat-absorbing land and sea. The melting ice sheets are causing sea levels to rise around the globe. In this talk I will review the evidence for climate change, natural and anthropogenic, and explore how ice sheets and sea level changed in the past. How fast climate changes in the future will depend on our collective actions as individuals, families, communities, and governments.



Maureen E. Raymo is a renowned scientist who has been a pioneer in the study of ice ages and sea level in Earth's history. Her work has shaped our understanding of Earth's natural climate variability and her landmark papers have influenced a generation of scientists. In 2014, Professor Raymo, a fellow of the National Academy of Sciences, The Explorers Club, and the American Geophysical Union, became the first woman to be awarded the Wollaston Medal, the Geological Society of London's most senior medal and highest accolade.





## **Programme**

12.15	Lunch for registered schools and participants
13.15	Welcome remarks and presentation of the Crafoord Foundation
	Martin Jakobsson, chairperson Crafoord Committee for Geosciences
	Earth sciences and climate research
	Martin Jakobsson, chairperson Crafoord Committee for Geosciences
13.30	Crafoord Academy Lecture 2019: Climate Change, CO2, and Sea
	Level: Past is Prologue
	Maureen E. Raymo, Lamont-Doherty Observatory, Columbia University,
	USA
14.10	The role of the sun in the climate
	Raimund Muscheler, Lund University
14.25	Panel discussion
	Maureen E. Raymo, Lamont-Doherty Observatory, Columbia University, Emma Kritzberg,
	Lund University, Raimund Muscheler, Lund University and students.
	Moderator: Mats Eriksson, Lund University
14.55	Presentation of the Crafoord Academy Lecture diploma
15.00	Closing
	Martin Jakobsson, chairperson Crafoord Committee for Geosciences
15.00	

More information: www.kva.se/CrafoordAcademyLecture2019

Organisers: The Royal Swedish Academy of Sciences and the Crafoord Foundation.

