

# Colloqui della Classe di Scienze

Anno Accademico 2023/2024

**Sala Stemmi**  
Palazzo della Carovana  
Scuola Normale Superiore  
Piazza dei Cavalieri, 7 - PISA

**7 FEBRUARY 2024**  
h 3.00 p.m.

**CARLO BARBANTE**  
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Ca' Foscari University of Venice

*Climate Changes: the Poles Matter*

#### ABSTRACT:

This seminar delves into the pivotal role of Earth's polar regions within the landscape of climate sciences. It examines the poles as hot spots of anthropogenic change, where human-induced alterations to the environment are starkly evident. Not only crucial for understanding global climate patterns, the poles represent a niche of biodiversity, harboring unique ecosystems vulnerable to rapid transformations. As these regions teeter close to climate tipping points, the urgency to comprehend and mitigate their impact intensifies. The discussion also explores new scientific challenges, often referred to as the 'grail'—such as the deep ice core drilling program BeyondEPICA. Furthermore, the talk highlights the significance of science diplomacy in fostering collaboration among nations, emphasizing the need for international cooperation to address these critical climate challenges.

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in presence and also available on [Zoom](#)

