Constraints on past CO₂ change on glacial to Cenozoic timescales

**Bio:** Dr. James Rae is a Reader in Earth and Environmental Sciences at the University of St Andrews. His research uses the chemistry of sediments, ice, and shells to reconstruct past climate change, aided by insights from Earth system models. Much of his work has focused on the development and application of the boron isotope proxy for past ocean pH and atmospheric CO₂. Current areas of research by his group include the drivers of the ice ages, the climates of the Cenozoic, changes in ocean circulation and acidity, and reconstructing CO₂ over geological time. He is a current ERC grant awardee and a Fellow of the Young Academy of Scotland.

Global Climate Change Driven by Marine Methane Hydrate Dissociation: Reality or Fiction?

**Bio:** Dr. Yige Zhang is an assistant professor at Texas A&M University. He studies the Earth’s past climate and biogeochemical cycle changes. His primary research tools are organic/isotope geochemistry, aided by geochemical and climate models. He is an Associate Editor of *Paleoceanography & Paleoclimatology*, a member of the US Advisory Committee for Scientific Ocean Drilling, and the 2022 F.W. Clarke Medalist of the Geochemical Society.

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