

## **Seminar**

### **Lessons from the Earth's deadliest extinctions for today's climate crisis**

**Hamsa Padmanabhan**

**The Green Concept, Pune**

During its 4.5 billion-year-old history, our planet has been witness to at least five major extinctions. Of these, the most destructive one was called the Permian Triassic Mass Extinction (PTME), which took place around 252 million years ago and destroyed about 96% of all marine and 70% of all terrestrial species. But how did such a large-scale wipeout take place? Careful investigations of fossil records have revealed a sharp rise in carbon dioxide levels in the millennia leading up to the extinction, possibly triggering a global warming runaway and making conditions hostile for life. This talk will take us through how we analyse the evidence supporting this conclusion, and its takeaways for our current greenhouse gas emissions and climate change.

***Wednesday, Sep 24<sup>th</sup> 2025***

***16:00 Hrs (Tea / Coffee 15:45 Hrs)***

***Seminar Hall, TIFRH***