



Contribution ID: 201

Type: **Poster**

## Evaluating Misconceptions About the Greenhouse Effect in Textbooks

*Monday 30 June 2025 16:30 (1 hour)*

This study analyses 26 middle and high school Italian textbooks on physics, science, geography, and technology to investigate how the greenhouse effect is presented and identify potential misconceptions. Through a content analysis approach, we aim to evaluate the accuracy and clarity of the information provided to students. This research contributes to the ongoing efforts in the field of climate change education and sustainability, building on our group's long-standing commitment to improving instructional practices. The findings will highlight common misunderstandings and suggest strategies for enhancing the representation of the greenhouse effect in educational materials.

### Education level

Age 15-18 (Secondary education)

### Physics topic

Climate physics

### Research focus

Other

### Research method

Other

### Organizing preference criteria

Track

**Authors:** SALMOIRAGHI, Alessandro; ONORATO, Pasquale (University of Trento)

**Presenter:** SALMOIRAGHI, Alessandro

**Session Classification:** Poster session

**Track Classification:** Climate physics (CLIM)