

# Institute Lecture



## Prof. Frederic Lefevre

INSA-Lyon, Villeurbanne, France

## The Energy-Climate Challenge: IPCC's Contributions



**@ 6.15 pm | Tuesday, March 03, 2020**  
**Venue: L17, LHC**

### About the talk

The objective of this presentation is to synthesize the main lessons of the report on “the impacts of global warming of 1.5°C above pre-industrial levels and related global greenhouse gas emission pathways” issued by the International Panel on Climate Change (IPCC) in October 2018. This report was a response to the invitation contained in the Decision of the 21st Conference of Parties of the United Nations Framework Convention on Climate Change to adopt the Paris Agreement.

In this presentation, some historical perspectives on the earth past climate are presented, as well as the current state of global warming and its consequences at +1°C, +1.5°C and beyond. An analysis of the remaining carbon budget not to exceed the 1.5°C limit is also presented, as well as the techno-economic scenarios that make it possible to achieve this objective and their impact on the 17 sustainable development objectives proposed by the United Nations.

### About the speaker

Frédéric LEFEVRE was appointed as Assistant Professor at INSA Lyon in Oct. 2002 and promoted to Full Professor in 2010. He is an expert in phase change heat transfer, with applications in the field of heat pipe science and technology. He is also an expert in inverse methods for the analysis of conduction heat transfer, which was the core of his PhD obtained in 2001 at the University of Provence, Marseille. Since 2014 he is the head of the Department of Energy and Environmental Engineering at INSA Lyon.

All are invited to attend

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