

**MAKE OUR
PLANET
GREAT
AGAIN**



Seminar Series

The "**Make Our Planet Great Again**" program is a French – German initiative to foster climate change research and to support the implementation of the Paris Agreement. Within the "Make Our Planet Great Again" program, researchers from all over the world work together to improve **Earth system observations**, to detect impacts and suggest strategies to mitigate and adapt to **Climate change** and to find new solutions for the **Energy transition** from fossil fuels to renewable resources.

The **Make Our Planet Great Again seminar series** takes place on **Mondays from 16:00 to 17:00** Paris/Berlin time. The seminar series is an **open event** at which the Make Our Planet Great Again Laureates inform about the latest developments in their research area.

Please join us to engage in climate change research and interact with the Make Our Planet Great Again researchers **by registering for this open seminar series at:**

https://cnrs.zoom.us/webinar/register/WN_AL5_VQCYQP6YVA7E79A_DA

The first seminar will take place on **Monday, 6th Sept. 2021:**

Thomas Lauvaux

Laboratoire des sciences du climat et de l'environnement, Saclay

Title: Are cities on track to net-zero emissions? The next generation of greenhouse gas information systems

Abstract: Metropolitan areas represent a large fraction of the global fossil fuel emissions. Supported by international consortiums, local governments play an active role in reducing GHG emissions at the local level, but tracking progress of mitigation actions is more tedious and more prone to systematic errors than previously thought. Atmospheric monitoring of GHG in conjunction with air quality networks brings a new source of information, more readily available and more comparable across cities than traditional inventory approaches. We present here the most recent successes and challenges over Paris, illustrated by the impact of two successive confinements in 2020, but also Mexico City, Los Angeles, and Indianapolis to track changes in urban emissions at various timescales.



Upcoming Make Our Planet Great Again seminars in 2021:

13.09.2021 - 16:00: **Louis Derry** (Host institution: Institute de Physique du Globe, Paris)

What's in our water and why can it change with climate?

20.09.2021 - 16:00: **Vincent Vadez** (Host institution: Laboratoire Diversité – Adaptation – Développement, Montpellier)

Turn off the tap! Plant traits that help to prepare for future climates

27.09.2021 - 16:00: **Anna Possner** (Host institution: Goethe-Universität Frankfurt/Main)

Southern Ocean clouds: why understand clouds where nobody lives?

04.10.2021 - 16:00: **Barbara Ervens** (Host institution: Institut de Chimie, Clermont Ferrand)

Biological processes in the atmosphere: Effects on aerosol particles and clouds

11.10.2021 - 16:00: **R Subramanian** (Host institution: Observatoires des Sciences de l'Univers- Enveloppes Fluides de la Ville à l'Exobiologie (OSU-EFLUVE) / Laboratoire Interuniversitaire des Systèmes Atmosphériques, Créteil)

You can't manage what you don't measure: Air quality in urban Sub-Saharan Africa

18.10.2021 - 16:00: **Lorie Hamelin** (Host institution: Toulouse Biotechnology Institute (TBI), Toulouse)

Sustainable transition towards a low fossil carbon economy in France

25.10.2021 - 16:00: **Chien Wang** (Host institution: Laboratoire d'aérodynamique, Toulouse)

Can we machine-learn the raindrop formation processes? (Speaker: Azusa Takeishi)

08.11.2021 - 16:00: **Marion Carrier** (Host institution: Centre de recherche en génie des procédés des solides divisés, de l'énergie et de l'environnement, Albi)

Biomass Fast Pyrolysis: Kinetics and Thermodynamics

15.11.2021 - 16:00: **Philip Schulz** (Host institution: Institut Photovoltaïque d'Ile de France, Palaiseau)

Beating the Terawatt Challenge: New Materials and Interfaces in Photovoltaics

29.11.2021 - 16:00: **Ludmila Cojocaru** (Host institution: Institut des Sciences Moléculaires, Université de Bordeaux)

Intermittency of Sunlight, sustainable photo-supercapacitors for energy conversion-storage in a single device

06.12.2021 - 16:00: **James Clark** (Host institution: Laboratoire des écosystèmes et des sociétés en montagne, Grenoble)

Global tree fecundity and its contribution to twenty-first century forests

13.12.2021 - 16:00: **Frédéric Bouchard** (Host institution: Laboratoire Géosciences Paris-Sud (GEOPS), Saclay)

Lake-rich permafrost landscapes in Siberia: Critical places at critical times

20.12.2021 - 16:00: **Nuria Teixido** (Host institution: Laboratoire d'Océanographie, Villefranche-sur-Mer)

How global environmental change affects marine biodiversity



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