



**ICOS**

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National  
Network  
Belgium

SCIENCE CONFERENCE  
BRUSSELS - BELGIUM  
20 APRIL 2023



## Session 1: ICOS Belgium stations reveal new insights

- 9:30 **Welcome word**  
Aline van der Werf
- 9:40 **The Ruisdael Rotterdam measurement campaign on urban air quality and greenhouse gas emission monitoring**  
Sander Houweling
- 10:10 **The Maasmechelen ICOS station: a flux perspective over the wonderful Mechelse Heide**  
Nicola Arriga (Marilyn Roland)
- 10:30 **Using the VLIZ ICOS station measurements and discrete samples to assess the carbonate chemistry trends and carbon neutrality of the Belgian Coast**  
Hannelore Theetaert (Thanos Gkritzalis)

## Coffee break and poster session

- 11:20 **The CongoFlux climate site**  
Roxanne Daelman
- 11:40 **Monitoring of greenhouse gases in the atmosphere at Belgian and other ICOS sites**  
Martine De Mazière
- 12:00 **A comprehensive analysis of CO<sub>2</sub> exchanges in agro-ecosystems based on a generic soil-crop model-derived methodology**  
Mathieu Delandmeter
- 12:20 **Accurate predictions of GPP and ET from SIF with mechanistic modelling at the parcel scale under natural climate conditions**  
Quentin Beauclair

## Session 2: From data collection to societal change

- 13:40 **The opportunities of the ICOS Oceans Network for marine carbon accounting in shelf seas**  
Steven Dauwe
- 14:00 **Methane leaks and stakeholder engagement**  
Arjan Hensen
- 14:20 **Copernicus: from observations to public services and policy making tools**  
Maria Berdahl
- 14:40 **The Belgian Climate Centre: maximizing the impact of climate research**  
Valerie Trouet

### Coffee break and poster session

## Session 3: New collaborations lift ICOS to the next level

- 15:30 **Retrieving information on leaf resistance from new generation remote sensing data streams**  
Simon De Canniere
- 15:50 **Do in situ or satellite-based vegetation indices capture the effect of drought on photosynthesis in a temperate heathland?**  
Maral Maleki
- 16:10 **LifeWatch**  
Lennart Schepers
- 16:30 **The AnaEE infrastructure**  
Bernard Longdoz

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# POSTER PRESENTATIONS

**Analysis of the sources influencing ground-based observations of CO<sub>2</sub>, CO and CH<sub>4</sub> at Xianghe, China using WRF-GHG**

Sieglinde Callewaert

**Increasing soil water deficit negatively impacts European beech radial growth: a case study combining long-term monitoring (1996-2020) and modeling approaches**

Wafa Chebbi

**Continuous CO<sub>2</sub>, N<sub>2</sub>O and CH<sub>4</sub> fluxes from the footprint of the CongoFlux Eddy Covariance tower**

Roxanne Daelman

**Quantifying the photosynthetic capacity of dominant tree species in a humid lowland tropical forest of the Congo Basin**

Thomas Sibret

**Towards a greenhouse gas emission monitoring and verification system for Belgium (VERBE)**

Martine De Mazière

**Improving yield and fluxes prediction for agroecosystem through modelling:**

**Identifying ancillary measurements at ICOS-Lonzee**

Laura Delhez

**Study of biogenic volatile organic compound emissions and depositions over a mixed temperate forest by PTR-TOF-MS and eddy covariance**

Clément Dumont

**Impact of climate change and drought on tree growth.**

**Analysis of dendrometric data for *Pinus sylvestris* L. in the temperate zone**

Simon Huylebroeck

**Installation of a new Eddy Covariance system for Air-sea CO<sub>2</sub> exchange**

Tom Van Engeland

**Investigating the potential for CO<sub>2</sub> drawdown in coastal environments.**

**The microcosm research facility**  
Silke Verbrugge (Thanos Gkritzalis)