

Call for abstracts!!

**International Conference on Agricultural GHG Emissions and
Food Security –
Connecting research to policy and practise**



10.-13. September 2018 Berlin
<http://www.agrighg-2018.org/>

The FACCE JPI (Joint Programming Initiative on Agriculture, Food Security and Climate Change) institutional partnership with the GRA (Global Research Alliance on Agricultural Greenhouse Gases) with the participation of CCAFS and with support of the German Ministry of Food and Agriculture and its federal research institute Thünen-Institute organize an international conference in Germany. The conference will focus on agricultural GHG emission reduction in the light of climate change, sustainable agriculture and food security. The event is organized in two parts: The first part is a 1.5 days conference with a focus on science on the basis of papers and posters selected from the call for paper. This is followed by an outreach conference part of 1.5 days for policymakers, science and other stakeholders with a subsequent excursion.

We invite you to take part and contribute to the scientific conference. Please **submit your abstract by the 30th April** using the website: <http://www.agrighg-2018.org>.

Under the guiding questions: **What are options, global potentials and visions to the mitigation of greenhouse gases and the enhancement of carbon sinks by agriculture?** we would like to broaden the scope of the scientific conference and focus on holistic, integrative state-of the art research in the light of political and societal challenges relevant for implementing climate action under the Paris agreement.

Topics for the conference are:

1. Innovative approaches in GHG monitoring and MRV

What are new innovative approaches in monitoring of GHG emissions and of carbon sinks and how can MRV options be integrated internationally?

- a. Developing improved methodologies for national GHG reporting
- b. Integrating new measures and regional scales in monitoring
- c. GHG calculators for the farm level: experiences and perspectives

2. Mitigation potential

What are innovative measures to mitigate GHG emissions in livestock, cropland, rice production and carbon rich-ecosystems? How can intelligent land use management contribute to less GHG emissions? What is the mitigation potential on the regional, national and global scale of new and innovative action and measures?

- a. Livestock and grassland management
- b. Rice and Cropland
- c. Land-use, land use management and carbon rich ecosystems
- d. Soil carbon sequestration, agroforestry

3. Cost and implementation

How can cost-effective GHG measures be integrated and implemented? What are current best practice instruments to integrate GHG emissions by agriculture in NDCs and how are they implemented? What are innovative integrative approaches with multiple benefits/ win-win options that can be transferred to other regions? What are the barriers to the uptake of mitigation options?

- a. Scientific evaluation of national climate protection plans and future pathways
- b. Economic analysis of GHG emissions policies / marginal abatement cost curves
- c. adoption rates, potentials and barriers/ win-win solutions: integrative approaches with multiple benefits

4. Global challenges and policies

What are possible policy design and implementation options from scientific point of view? What are the challenges in mitigation regarding food security and other political priorities (natural resources management and biodiversity) and how can solutions look like?

- a. Mitigation and food security; Consumption; simultaneously addressing consumption and production
- b. Quantification of leakage effects and global implications/ Bio-economy/ Circular economy
- c. Options and challenges for supply chains and trade