

# GLOBAL RESEARCH ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES

15 May 2018

SECRETARIAT UPDATE



# AT A GLANCE



**4** Research Groups



Paddy Rice  
Research  
Group



Livestock  
Research  
Group



Croplands  
Research  
Group



Integrative  
Research  
Group



**20** Science  
Networks

**14** partner  
organisations



Over **3000** scientists  
involved in activities of the GRA



**44** international  
collaborative projects  
supporting the GRA



**50** fellowships awarded to  
recipients from **25** countries



**19** technical training  
workshops held



**12** technical guidelines,  
resource materials and  
databases produced





# PARTNER ORGANISATIONS

GLOBAL  
RESEARCH  
ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES



**Inter-American  
Development Bank**

worldAgriculturalforum



# 2017 COUNCIL MEETING OUTCOMES

GLOBAL  
RESEARCH  
ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES

- Germany confirmed as vice-Chair.
- Livestock and Paddy Rice Research Groups call for Members to support a 3rd Co-Chair of each Group.
- Develop an inventory of capability building needs - and survey of capability fellowships and training events.
- Research Groups proposed developing regional capability building activities, coordinated across all Groups.
- Facilitate capability building support – including fellowships.
- Council Members to identify the Flagship projects they will support.
- New Partners – ISRIC, GAA and WBCSD.

# 2018 COUNCIL MEETING

GLOBAL  
RESEARCH  
ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES

- 10-13 September, Berlin, Germany
- Council meeting (10-11 September)
  - Research Group Reports.
  - GRA Flagships – update on existing and new proposals.
  - Regional capability building activities.
  - Koronovia work plan for Agriculture in the UNFCCC.
  - Collaboration with GRA Partners.



# INTERNATIONAL CONFERENCE

GLOBAL  
RESEARCH  
ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES



RESEARCH PROGRAM ON  
Climate Change,  
Agriculture and  
Food Security



- International Conference on Agricultural GHG emissions and Food Security: Connecting research to policy and practice.
- Jointly organised by GRA and FACCE-JPI, in partnership with CCAFS, and hosted by the Thünen Institute.
- Science Conference (10-11 September)
  - Call for abstracts closed 30 April.
- Stakeholder Conference (11-12 September)
  - Communicating research outcomes of the GRA, FACCE-JPI and CCAFS to policy makers, research coordinators, NGOs, industry and farmer organisations.



# CROPLANDS RESEARCH GROUP

GLOBAL  
RESEARCH  
ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES

## Co-Chairs

- Jane Johnson, USDA-ARS, USA
- Ladislau Martin, EMBRAPA, Brazil
- Rosa Mosquera, USC, Spain

## Group Activities

- Landscape management Network – Obtained funds - China and UNEP, granted by National Natural Science Foundation of China. (China and Kenya).
- Conservation Agriculture Network-published factsheet, obtained funds for meta data compilation.
- Peatlands Network Workshop, Spring 2018.

## Next Meeting

- 12 August 2018, Rio de Janeiro, Brazil. Alongside the World Congress on Soil Science.



# INTEGRATIVE RESEARCH GROUP

GLOBAL  
RESEARCH  
ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES

## Co-Chairs

- Brian McConkey, Agriculture and Agri-Food Canada
- Mellissa Wood, ACIAR, Australia
- Jean-François Soussana, INRA, France

## Group Activities

- *Soil carbon network*: C-MIP, testing soil carbon models on a global network of long-term bare fallow sites (launched)
- *Field scale network*: GHG-MIP, N<sub>2</sub>O emissions and yields of crop rotations and grasslands at 10 sites across 4 continents.
- *Farm-Region*: global map showing organic carbon inputs to soils required to reach the 4 per 1000 target.
- *Coordination of international* soil carbon sequestration research (CIRCASA) 17 countries.





# PADDY RICE RESEARCH GROUP

GLOBAL  
RESEARCH  
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ON AGRICULTURAL GREENHOUSE GASES

## Co-Chairs

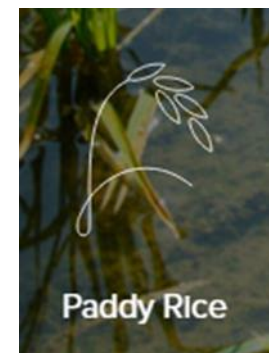
- Yasukazu Hosen, NIAES, Japan
- Álvaro Roel, INIA, Uruguay

## Group Activities

- published MRV guidelines
- APEC funded workshops on management technologies in Paddy Fields.
- Mitigation options for Latin America- with CIAT.

## Next Meeting

- America sub-Group, Piura, Peru, 14 May 2018.



*“Identify possible GRA Flagship Research Projects for presentation to and review by the Council for potential adoption on an annual basis. “*

- Flagships will make a major contribution to the GRA:
  - Reducing greenhouse gas emissions while supporting food security
  - Advancing global knowledge through collaboration
  - Supporting countries in their developing and implementing solutions
  - Promote synergies between mitigation and adaptation
- Flagships are thematic areas that will be advanced through specific actions and can include research, capacity building, guidance and transfer.
- Excellent opportunity to align Council members' domestic research programmes and Partner activity to the Flagships and to utilise upcoming research calls, both of the GRA and of GRA Partners

- GRA Council endorsed development of four GRA Flagships:
  - Enteric Fermentation
  - Agricultural GHG Inventories
  - Soil Carbon Sequestration
  - Water Management in Rice Production
- Under development are Flagships on Nitrous Oxide (Croplands) and Circular Food Systems.
- Task Forces comprising lead authors, contributing authors and review authors, were established.
- Task Forces prepared Flagship project proposals that outline work to be done, the resources available, and the resources needed (including types of resources, e.g. research funding, post-doc, etc.)



# Examples of joint programming

- FACCE-JPI / ERAGAS / SuSAN - expansion of existing project proposals.
- MIRSA II – Japan, Asia project on water management for CH<sub>4</sub> mitigation in rice. Linked to a Latin America FONTAGRO funded project on rice (Chile, Peru, Colombia, CIAT, FLAR).
- APEC rice project – Japan, NZ, Mexico, Viet Nam, Thailand, Malaysia, Philippines.
- CCAC –activities under the agriculture initiative.
- CLIFF-GRADS Scholarship programme jointly supported by GRA and CCAFS. Opportunities for Members and Partners to host PhD research visits (4-6 months) linked to GRA and CCAFS research projects.
- East Africa GRA Workshop – July 2018, opportunity to plan LRG activities in sub-regions of Africa.
- CIRCASA – soil carbon led by France + 17 countries.


# WEBSITE UPDATES

GLOBAL  
RESEARCH  
ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES

Expansion of Research Group Pages – to showcase Networks and activities.


[ABOUT US](#) [RESEARCH GROUPS](#) [COMMUNITY](#) [UPDATES & EVENTS](#) [LIBRARY](#) [CONTACT US](#)



GLOBAL RESEARCH ALLIANCE  
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## LIVESTOCK RESEARCH GROUP

[About Us](#)  
[Networks](#)  
[Collaborative Research](#)  
[Capability Building](#)




Focused on reducing the emissions intensity of livestock production systems and increasing the quantity of carbon stored in soils supporting those systems.


### Highlights



Global Rumen Census




Low emissions livestock development




Manure Knowledge Kiosk


### Research Networks




Animal Health & Greenhouse Gas Emissions Intensity Network




Animal Selection, Genetics & Genomics Network



Feed & Nutrition Network





Manure Management Network



Rumen Microbial Genomics Network

### Livestock Library Items

[Publications](#)

[Technical Manuals](#)

### News

[SEE ALL](#)

Major LRG work on rumen microbial genomes published in Nature

Paper on the nutritional and emissions impacts of US livestock

Countries seek to improve measurement, reporting and verification of ghgs and mitigation in the livestock sector

### Events

[SEE ALL](#)

Livestock Research Group Meeting 2018

14/05/2018 - 17/05/2018

### Publications

[SEE ALL](#)

Livestock Research Group Newsletter, October 2017

<https://globalresearchalliance.org/research/livestock/capability-building/low-emission-pathways-for-livestock-development/>

# WEBSITE UPDATES

GLOBAL  
RESEARCH  
ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES

Resource Library – access publications, documents, fellowship opportunities and project information.

The screenshot displays the 'LIBRARY' section of the Global Research Alliance website. At the top, a dark blue navigation bar contains links: ABOUT US, RESEARCH GROUPS, COMMUNITY, UPDATES & EVENTS, LIBRARY, and CONTACT US. Below this is a green header banner with the text 'GLOBAL RESEARCH ALLIANCE ON AGRICULTURAL GREENHOUSE GASES' and 'LIBRARY'. The main content area is divided into several sections. On the left, a sidebar lists 'Collaborative Activities', 'Fellowships', 'Meetings', 'Publications', and 'Technical Manuals'. Next to this is a stack of books icon. The central part features a 'SEARCH LIBRARY' bar. Below the search bar, there are six document thumbnails arranged in two rows of three. The first row includes 'Alliance Charter', 'Paddy Rice Meeting Reports', and 'Croplands Meeting Reports'. The second row includes 'Global Research Alliance Modelling Platform Presentation 2016', 'Americas Sub-Group Presentations, Stuttgart 2016', and 'Livestock Research Group Meeting Summary, April 2017'. Each thumbnail has a 'Meetings' label at the bottom. On the right side, there is a 'Research Groups' section with four categories: 'Croplands', 'Integrative', 'Livestock', and 'Paddy Rice', each with a corresponding icon. Below this is a 'Sort by:' section with two options: 'Date' and 'Title'.

ABOUT US RESEARCH GROUPS COMMUNITY UPDATES & EVENTS LIBRARY CONTACT US

GLOBAL RESEARCH ALLIANCE ON AGRICULTURAL GREENHOUSE GASES LIBRARY

Collaborative Activities

Fellowships

Meetings

Publications

Technical Manuals

SEARCH LIBRARY

Alliance Charter

Paddy Rice Meeting Reports

Croplands Meeting Reports

Meetings

Meetings

Meetings

Global Research Alliance Modelling Platform Presentation 2016

Americas Sub-Group Presentations, Stuttgart 2016

Livestock Research Group Meeting Summary, April 2017

Meetings

Meetings

Meetings

Research Groups

Croplands

Integrative

Livestock

Paddy Rice

Sort by:

- Date
- Title

Addis Ababa,



**FOR MORE INFORMATION**

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