



SYMPOSIUM

“Perspectives on global warming and livestock in developing countries of latin America”

1. Coordinator of the Symposium

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Units of Universidad Nacional Agraria La Molina involved in the organization Doctoral Program in Animal Science/Doctoral Program in Economy of Natural Resources/Doctoral Program in Sustainable Agriculture, with the financial support of the **Danish Development Research Network** and co-organizer Colegio Ingenieros del Perú (Capitulo Agronomia y Zootecnia) e ITDG (Peru).

2. Appetizer

Livestock contribute to global warming worldwide. As well, the negative impact of global warming will be more pronounced on livestock of small producers in developing countries. This situation requires mitigation and adaptation strategies that will consider biological, economic and social aspects. These topics will be included in this “Global warming and livestock” symposium.

3. Objectives

- Review information about the linkage between Global warming and livestock in different countries of Latin America.
- To define the more promising strategies for mitigation and adaptation of the effects of global warming on livestock.

4. Target group

Participants in the workshop will include professionals from NGOs, University and different government and regional officers of Latin America. It will consider professionals coming from social, economic and biological expertise.

5. Invited speaker

Considering that the symposium is oriented to identify and prioritize possible research and intervention activities, the invited speakers will share their results of research work related to climate change and livestock and coordinate possible future activities in South America. This



between professors and researchers from universities and officers from various organizations (ie NGOs) and government units related to agriculture and livestock.

6. Timing and proposed venue of the event

The workshop will be held in the auditorium of Universidad Nacional Agraria La Molina (Lima – Peru) from 10 to 12 May, 2011. It is expected 90 participants with 20 % coming from outside Peru.

8. Draft programme.

SIMPOSIO INTERNACIONAL

“Perspectives on global warming and livestock in developing countries of Latin America”

PROGRAM

Day 1: Tuesday 10

Place: Auditorium A-2 UNA- La Molina

17:00 Opening

17.15 Inventory of emissions for global warming in Peru: Livestock
Speaker: Ministry of Environment Expert (MINAM)

18.15 Inventory of emissions for global warming in Bolivia: Livestock component.
Speaker: Emilio García (U. Militar, Bolivia)

19.15 Panel (Various)

20:00 Closure day 1

Day 2: Wednesday 11

Place: Auditorium A-2 UNA- La Molina

8:30 Balance of Global warming gases in cattle .
Speaker: Edgar Cárdenas. (U. Nacional Colombia)

10:0 Feeding of ruminant livestock to minimize enteric methane emission
Speaker: Mette Olaf Nielsen (Copenhagen University / Denmark)

11:30 Coffee break



“Año del Centenario de Machu Pichu para el Mundo”

- 11:00 Mitigation of N₂O in ruminant livestock units.
Speaker: Edgar Cárdenas. (U. Nacional Colombia)
- 12.30 Lunch
- 14:00 Carbon sequestration in agroforestry systems
Speaker: Dr. Julio Alegre (UNA La Molina)
- 14.45 Impact of climate change on livestock in Perú.
Speaker: Dr. Carlos Gómez (UNA-La Molina).
- 15.30 Coffee break
- 16:0 Climate change scenarios in Peru and its impact on agriculture.
Speaker: Ing. Janeet Sanabria Quispe (SENAMHI)
- 17.30 Panel (Varios)
- 18.30 Cocktail

Day 3: Thursday 12

Place : Auditorium A-2 UNA- La Molina

- 9:00 Mitigation and adaptation to climate change in livestock (I) - ITDG (Perú)
Coordinators: Mg.Sc. Juan Torres
Lic. Daniel Rodríguez
- 10:00 Panel (02 local speakers)
- 10:30 Coffee break
- 11:00 Mitigation and adaptation to climate change in livestock (II) - ITDG (Perú)
Coordinadores: Mg.Sc. Juan Torres
Lic. Daniel Rodríguez
- 12:00 Panel (02 local speakers)
- 12:30 Lunch

Place: Auditorium A-2 UNA-La Molina

Panel 1: Global warming and agriculture.

- 14:00 The costo of climate change in Peruvian agriculture. The case of Piura and Lambayeque.
Speakers: Royer Loyola y Carlos Orihuela (UNA- La Molina)



14:30 Financing for mitigation and adaptation of the effects of global warming in agriculture
Expositora: Ministry of Environment Expert

Panel 2: Climate change and economic growth

15.15 Global Warming and economic growth.
Speaker: Luis Miguel Galindo (U Nacional Autonoma Mexico)

16:15 Panel de comentaristas (MINAM, ITDG practical solutions, UNAM, UNALM)

16:45 Questions from the participants

17.30 Presentation of the main outcomes of the Symposium / Closing

18:15 Closure

International Speakers confirmed:

Dr. Emilio García (Bolivia)

Ph.D. (University of Alicante, Spain). specialist in climate change and ecosystem management, inventory experts Greenhouse Gases, participated in the preparation of the inventory of GHG emissions and removals in your country for the years 2002 and 2004. Lecturer in Environmental Impact Assessments in the Universidad Mayor de San Andrés, Bolivia.

Edgar Cárdenas (Colombia)

Bsc.Zootecnia and MSc. In Environment and Development (National University of Colombia). Professor, Department of Animal Production Sciences, National University of Colombia. Mitigation Investigator greenhouse gas (GHG): methane and nitrous oxide - Identification of specific multipurpose forage plants in the tropics warm, medium and cold.

Mette Olaf Nielsen (Copenhagen University / Denmark)

MSc and Ph.D. in agronomy, animal science specialist with emphasis on physiology and nutrition. Researcher in the physiology of lactation in ruminants. His research is focused on understanding the basic nutritional and physiological principles of animal and put this knowledge to use to optimize their performance in the context of a country's development.

Dr. Luis Miguel Galindo

Bsc (Autonomous University of Mexico), Ph.D. (University of Newcastle upon Tyne, England) their activities concerning the research focus on issues such as global climate change, macroeconomic models of finance and monetary, economic processes and air quality. He is the author of numerous research and outreach, and a book along with Dr. Mario Molina (Nobel Prize in Chemistry 1995).