**Conference on Ammonia & GHG Emission Reduction and Precision Livestock Husbandry**

**Yield**

**Sustain-ability**

**Welfare**

**Tracing**

**COST**

**2019**

**Livestock Farming**

**Ammonia GHG**

Around 75% of European ammonia (NH3) emissions come from livestock production. Emissions occur at all stages of manure management: from buildings housing livestock; during manure storage; following manure application to land; and from urine deposited by livestock on pastures during grazing. Precision livestock husbandry (PLH) promises to allow modern, large-scale farms to develop most precise farming, while preserving the environment, and Internet of things can be helpful to implement precision livestock farming, using algorithms to manage individual animals. Measuring, modelling and mitigation of Ammonia and greenhouse gases (GHG) will be especially dealt with, and includes presentation of the COST CA 16106 achievements.

**Manure Storage**

**Manure Application**

**Manure in Housings**

**Animal Feed**

**Crop Production**

**Fertilizer Application**

**Manure in Pastures**

**Animal Production**

**Animal Production**

NH3

NH3

NH3

NH3

NH3

NH3

**Venue: Hotel Galilion, Upper Galilee, Israel**

**The Galilee Hotel is located in the Upper Galilee between Rosh Pina and Kiryat Shmona, at the entrance to the Agamon Lake**

**Scientific Committee:**

Prof Guoqiang Zhang, Denmark; Dr Melynda Hassouna, France**;** Georgios I. Arsenos, Greece; Dr Thomas BARTZANAS, Greece; Dr Andre AARNINK, Nederland; Dr Yael Laor, Israel; Prof Uri Marchaim, Israel**.**

**Programme**

**"Towards Precision livestock husbandry and its potential to mitigate ammonia and GHG emissions"**

**Tuesday, 19 February 2019**

07:00-08:00 Breakfast at the Hotel

07:30-08:30 Registration for the Conference: COST LiveAGE on Ammonia & GHG Emission Reduction and Precision Livestock Husbandry

08:30-08:45 Welcome: MIGAL - CEO and Chairman of the Board; Prof Guoqiang Zhang - COST Coordinator; Representatives of the regional government of upper Galilee, Israeli Science and technology Ministry, President of Tel-Hai College

08:45-09:00 MIGAL – Short description of activities

09:00-09:30 Professor Sven Sommer, Denmark, “Models of GHG and ammonia emission”

09:30-10:30 Presentations by COST partners: XXX; YYY; ZZZ and Israeli scientists (according to abstracts!) [4x15 min]

Location, health

GHG, Ammonia

10:30-11:00 Coffee break

11:00-11:15 Remote sensing and controls developed by Afimilk in Dairy handling

11:15-11:30 Remote sensing for cattle handling by Monitor equipment

11:30-11:45 Precision Livestock husbandry - Aviv Asher (MIGAL)

11:45-12:15 (Title TBC) Barbara Amon, ATB, Germany

12:15-13:00 Improving our environment: The effect on the citizens and the environment - Presentations by COST partners and Israeli scientists [3x 15min]

13:00-13:30 Precision Livestock Husbandry: Presentations by COST partners and Israeli scientists [2x 15min]

13:30-14:45 Lunch

14:45-15:15 (Title TBC) S. Godbout, Canada

15:15-15:45 (Title TBC) Raúl Muñoz Torre, Spain

15:45-16:30 Presentations by COST partners: XXX; YYY; ZZZ and Israeli scientists (according to abstracts!) [3x15 min]

16:30-17:00 Coffee break

17:00-18:00 Open discussion: "Towards Precision livestock husbandry and its possible effect on mitigation ammonia emission"

**Registration:** [**here**](https://docs.google.com/spreadsheets/d/14AAc9Bfi-yHCtuiL4R81x-cXKGQ-49oHtjLWSQiNXIo/edit?usp=sharing)