

## METHAGENE – Final meeting – October 11-13, 2017

### Tuesday evening (Oct 10)

- 16.00h Registration (at hotel)  
20.00h Welcome Dinner (at the hotel Restaurant)

### Wednesday (Oct 11)

- 08.00h Registration (until 8.30h at hotel, after that at venue)  
09.15h Opening  
09.15h Local host  
09.35h Introduction to METHAGENE  
09.55h Perspective of EAAP, **Andrea Rosati**  
10.15h Session 1 "Methane phenotype" by **Yvette de Haas**  
11.00h *coffee/tea break*  
11.30h Session 1 Group work on "pros and cons of a methane phenotype", chaired by Yvette  
11.30h break out in 4 groups  
12.00h joint reflection  
12.30h *lunch*  
13.30h Session 2 "Protocols for harmonizing and collating data" by **Phil Garnsworthy**  
14.00h Session 2 "Protocols for harmonizing and collating data", chaired by Phil  
14.00h **Gareth Difford** - *Extending method comparison theory to methane missions in animal science*  
14.15h **Diana Sorg** - *Co-recording with the Laser Methane Detector: method comparisons towards joint genetic evaluations*  
14.30h **Thomas Denninger** - *Comparison of the GreenFeed technique with the SF<sub>6</sub> technique in methane measurement on grazing cows*  
14.45h **Mateusz Sypniewski** - *Agreement between methane measurements in dairy cows obtained from two non-invasive infrared methods*  
15.00h *coffee/tea break*  
15.30h Session 3 "Links of methane to microbes and feed efficiency", chaired by Jan  
15.30h **Suzanne Rowe** – *Mitigating Methane Emission programme in New Zealand*  
16.00h **Gilles Renand** – *Correlations between methane emissions and feed efficiency traits in beef cattle*  
16.15h **Dominique Francois** - *Greenhouse gases emissions in sheep, relationship with liveweight, feed intake and residual feed intake*  
16.30h **Nico Perein & Dorien van Wesemael** - *Estimation of feed conversion efficiency based on CH<sub>4</sub>-to-CO<sub>2</sub> ratio revisited when 3-NOP is used as additive*  
16.45h **Alireza Bayat** – *Effect of host animal and diet on ranking of cows for methane yield*  
17.00h **Lubomira Gresakova** - *Effect of selected medicinal herbs from central Europe on methane production from in vitro ruminal fermentations*  
17.15h **Filippo Biscarini & Oscar González** – *a new COST Action "The Breeding machine"*  
17.30h Closure  
20.00h Dinner (Optional, Pizza Restaurant)

### Thursday (Oct 12)

- 09.00h Session 4 "Methane in broader perspective" by **Jude Capper**  
09.45h Session 4 Round-table discussion on "Methane in broader perspective", led by Yvette  
10.30h *coffee/tea break*  
11.00h Session 5 "Breeding goal for environmental traits" by **Tim Byrne**  
11.30h Session 5 "Breeding goal for environmental traits" by **Eileen Wall**

12.00h Session 5 "Breeding goal for environmental traits", chaired by Eileen  
 12.00h **Irene Breider** - *Breeding goals and the use of selection index theory to reduce methane emissions*  
 12.15h **Javier Lopez-Paredes** - *Breeding goals to reduce methane emissions in beef cattle*  
 12.30h **Marcin Pszczola** - *Heritability of methane emission measured on commercial dairy farms*  
 12.45h **Larissa Zetouni** - *Genetic correlations between methane production and functional and body type traits in Danish Holstein cows*  
 13.00h **Diana Sorg** - *Genetic analysis of CH<sub>4</sub> concentrations in the breath of dairy cows measured by Laser Methane Detector*

13.15h *lunch*

14.15h Session 6 Group work on "added value of genetic improvement", led by Jan & Yvette  
 14.15h break out in 3 groups  
 15.00h back for reflection

15.15h *coffee/tea break*

15.45h Session 7 "Proxies for methane" by **John Newbold**  
 16.15h Session 7 "Proxies for methane" by **Enyew Negussie & Filippo Biscarini**  
 17.00h Session 7 "Proxies for methane", chaired by Enyew  
 17.00h **Sanne van Gastelen** - *Using milk FTIR spectra and gas chromatography-based MFA profiles to predict CH<sub>4</sub> emission of dairy cows*  
 17.15h **Riccardo Bica** - *Nuclear Magnetic Resonance to identify rumen metabolites as proxies for methane emissions*  
 17.30h **Amelie Vanlierde** & Helene Soyeurt - *Biomarkers from milk as predictors for methane emissions*  
 17.45h **Jody Leigh Edmunds** - *Prediction accuracy of methane production*

18.00h Closure  
 18.30h Buffalo Farm and mozzarella cheese factory visit, including dinner

#### Friday (Oct 13)

09.00h Session 8 "Industry involvement" – vision from New Zealand by **Mark Aspin**  
 (Pastoral Greenhouse Gas Research Consortium)

09.30h Session 8 "Industry involvement" – reflection of several industries on current mitigation strategies, opportunities and needs (where are they, where are they aiming for, what (else) do they need for that?)  
 09.30h **Erwin Koenen**, CRV  
 09.45h **Georg Kau**, DSM  
 10.00h **Raffaella Finocchiaro**, Anafi  
 10.15h **Oliver Riede**, Zulavida  
 10.30h **Jan Lassen**, Viking Genetics  
 10.45h **Antonio Bilancioni & Maria Agovino**, ALLTECH  
 11.00h **Nicola Panciroli**, SILVATEAM

11.15h *coffee/tea break*

11.45h Session 8 Open discussion on "Industry involvement" – how can achievements of METHAGENE help the industry in their needs to reach their ultimate aim?

12.30h *lunch*

13.30h Session 9 "What after METHAGENE?" & "Links to other international initiatives"  
 13.30h ICAR and Working groups by **Brian Wickham**  
 13.45h Efficient dairy cow genome project by **Filippo Miglior**  
 14.00h ASGGN by **Jan Lassen**  
 14.15h Joint discussion on wishes, needs, opportunities and next steps

15.00h Closure of conference

15.00h *Happy hour with the homemade beer 'Kentucky Bourbon Barrel' produced by ALLTECH*

16.00h Final MC meeting (for MC members only)  
 17.30h Closure