



MiX99 Workshop

December 3 – 4, 2014, Gustavelund Hotel and Conference Centre, Tuusula, Finland

Program:

Wednesday, 3rd of December

8:30 Registration begins

9:30 Welcome Coffee

10:00 Welcome

Harri Huhta, Research Manager of MTT's Sustainable and Competitive Food Production Research Area

MiX99 introduction

10:15 MiX99 overview

Martin Lidauer, MTT

10:45 MiX99 tutorial

Prof. Ismo Strandén, MTT

11:45 MiX99 documentation

Matti Taskinen, MTT

12:00 Lunch

Special topic I

13:00 Speeding up genomic evaluations – are GPUs an option?

Prof. Mike Coffey, Scotland's Rural College

Solving large models with MiX99

13:40 MiX99 features for large models

Martin Lidauer, MTT

14:10 Reducing model dimension

Timo Pitkänen, MTT

14:40 Heterogeneous variance adjustment

Martin Lidauer, MTT

15:00 Coffee

Parameter estimation with MiX99

15:30 Variance component estimation

Kaarina Matilainen, MTT

16:10 Heterogeneous residual variance

Timo Pitkänen, MTT

16:40 Non-linear models

Kaarina Matilainen, MTT

17:15 Summing up

MiX99

Solving Large Mixed Model Equations



17:30 *End of Day 1*

18:30 *Dinner by faba*

20:00-21:30 *Possibility for sauna*

Thursday, 4th of December

Genomic prediction

9:00 Genomic models and MiX99

Prof. Esa Mäntysaari, MTT

9:40 Advances in genomic modelling

Prof. Ismo Strandén, MTT

10:20 *Coffee*

Reliabilities and advanced statistics

10:40 Approximation of reliabilities

Prof. Ismo Strandén, MTT

11:20 MiX99 model derivatives

Martin Lidauer & Ismo Strandén, MTT

12:00 *Lunch*

Special topic II

13:00 MiXBLUP

Jan ten Napel, Wageningen UR Livestock Research

Case studies and discussion

Chair: Prof. Esa Mäntysaari, MTT

13:30 Software expectations from the industry: genetic evaluations for the future

*Gert P. Aamand, Nordic Cattle Genetic Evaluation & Jukka Pösö,
Faba co-op*

13:45 Use of MiX99 for genomic evaluation

Donagh Berry, Teagasc – Agriculture and Food Development Authority

14:00 MiX99 applications for genetic evaluations in Germany and Austria

Reiner Emmerling, Bavarian State Research Center for Agriculture

14:15 Implementing genetic evaluation of large dairy cattle data with Mix99 in a Windows environment

Raphael Mrode, Scotland's Rural College

14:30 Trends in computing environments

Matti Taskinen, MTT

14:45 Discussion

15:00 *Coffee*

MiX99

Solving Large Mixed Model Equations