**Annual Meeting**

**Multistate Project NE2227: Contribution of Ovarian Function, Uterine Receptivity, and Embryo Quality to Pregnancy Success in Ruminants**

**May 16th & 17th, 2023**

May 15, 2023

9:07 Call to Order, Dave Townson presiding.

Introductions

In Attendance:

Dave Townson-URhode Island

Fransisco Diaz- Penn State

Cecily Bishop- Oregon State

Milo Wiltbank- UWisconsin

Yi Ren - Cornell

Amanda Patterson- UMissouri

Sarah Moorey-UTennessee

Dan Mathew-UTennessee

Soon Hun Cheong- Cornell

Jen Wood- UNebraska

Phil Bridges- UKentucky

Ron Butler- Cornell

Joy Pate- Penn State

Camilla Hughes- Penn State

Troy Ott- Penn State

Alvaro Garcia Guerra -Ohio State

Aileen Keating – Iowa State

Abby Maucieri – URhode Island

Kamilah Grant -USDA

Mark Mirando - USDA

Joanne Fortune -Cornell

Business:

Announced getting annual reports in as soon as the meeting is completed.

Farm Bill Initiatives have been placed in the Box site.

Reports:

Aileen Keating, Iowa State Univ. Basic mechanisms involved with ovitoxicity

Phil Bridges, Univ Kentucky. Organic vs inorganic selenium sources

Jennifer Wood, Univ Nebraska. Dynamics of mRNA metabolism in the oocyte and early embryo

Athena Ren, Cornell Univ. Associating methylation profiling in the circulation with tissue/organ-specific phenotype.

Amanda Patterson, Univ Missouri. Uterine gland development – role in health and disease.

Daniel Matthews, Univ Tennessee. Conceptus-maternal interactions to reduce embryo and fetal mortality in cattle.

Adjourn – Box lunches provided.

 Alan Ealy, Virginia Tech. Key facets of early embryogenesis

 Discussion of 2022 Online Repro Course, led by Alan Ealy

Sarah Moorey, Univ Tennessee. Key aspects of oocyte maturation.

Bishop Cecily, Oregon State Univ. Vitamin A and D roles in reproduction in cattle.

Alvaro Garcia Guerra, Ohio State Univ. Optimizing ovum pickup technologies.

First day summary

4:30 PM. Adjorn

Evening: Group Dinner @ Troy Ott’s home

**Wednesday May 17th, 2023**

9:01 Call to order. Dan Mathew presiding.

Reports:

Troy Ott, Penn State Univ. Transcriptome of endometrium and blood leukocytes in response to conceptus proteins in dairy cattle. Led by Isabel da Silva (PhD student)

Shelly Roads, Virginia Tech. Evaluating the effect of heat stress and altered glycemic state on GABA in lactating Holstein cows.

Milo Wiltbank, Univ Wisconsin. An evaluation of the role of LH pulses on follicle development. Deciphering the causes for double ovulation in lactating dairy cows. The CL of pregnancy loss.

USDA-NIFA Update. Kamilah Grant and Mark Mirando.

Provided a NIFA update (attached).

Discussion period:

The executive officers for the forthcoming year are:

Julio Giordono - Chair

Alan Ealy - Secretary

Dan Mathew – Director

Reviewed the structure of the executive committee.

 Reporting period – 2022 only for this year’s report

Decided to go to Rhode Island in 2024.

Discussion on how to add more informal discussion into the 2024 meeting.

 3 min presentation

5 slide presentation

5 min presentation – 10 min discussion.

Include breakout group discussions – foster collaborative planning.

11:50 Adjourn



