1965

Contents for Proceedings: Conference on Estrous Cycle Control in Domestic Animals, July 9-10, 1964

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CONFERENCE ON
ESTROUS CYCLE
CONTROL IN
DOMESTIC ANIMALS

July 9-10, 1964 Nebraska Center
for Continuing Education
University of Nebraska
Lincoln, Nebraska
CONFERENCE PROGRAM

THURSDAY, JULY 9
A.M.

8:30  Registration

9:00 - 9:15  Welcome to Conference
             Dean E. F. Frolik
             University of Nebraska

Objectives
             C. F. Sierk
             U.S. Department of Agriculture

9:15 - 10:30  Evaluation of Methods for Controlling the Estrous Cycle
              Wm. Hansel, Chairman
              R. G. Zimbelman
              J. F. Wagner

10:30 - 10:45  Recess

10:45 - 12:00  Discussion

12:00 - 1:00  Lunch

P.M.

1:00 - 2:00  Some Side-Effects and After-Effects of Experimental Endocrine Treatments Used to Modify the Natural Estrual Rhythm
             L. E. Casida, Chairman
             P. J. Dziuk

2:00 - 3:00  Discussion

3:00 - 3:15  Recess

3:15 - 4:15  Mechanisms Controlling the Formation and Persistence of the Corpus Luteum
             R. M. Melampy, Chairman
             L. L. Anderson
             B. N. Day
             H. G. Spies

4:15 - 5:00  Discussion

6:30  Dinner

FRIDAY, JULY 10
A.M.

8:30 - 9:30  Roles of Hypothalamus and Hypophysis in the Control of the Estrous Cycle
              A. V. Nalbandov, Chairman
              M. T. Clegg

9:30 - 9:45  Recess

9:45 - 10:45  Discussion

10:45 - 12:00  Unfinished Business

12:00 - 1:00  Lunch

P.M.

1:00 - 3:00  Summary and Conclusions
              H. H. Cole
This publication is a record of the papers presented at a conference on estrous cycle control in domestic animals, held July 10-14, 1964 at the University of Nebraska. Objectives of the conference were to review the status quo of research on this problem, to provide a forum for exchange of ideas and experiences, and to point up the direction of future research.

Research on controlling or synchronizing the estrous cycle in domestic animals has been in progress since Hans Selye at McGill University in 1936 and William Phillips at the University of Rochester in 1937 demonstrated that injected progesterone inhibited ovulation in the rat. R. H. Dutt and L. E. Casida at the Wisconsin station in 1948 successfully controlled estrous and ovulation in ewes. Subsequent experiments with swine and cattle showed varying effects of progesterone injections.

In 1959 oral administration of progestationally active compounds resulted in inhibition of estrous and ovulation in rats. Since that time considerable effort by research personnel at land-grant universities, USDA laboratories and pharmaceutical firms has been devoted to developing and perfecting a practical method for control of the estrous cycle in domestic animals. Concurrently, there has been substantial progress in attempts to elucidate the mechanisms through which progesterone exerts its inhibitory influence on estrus as well as the roles of the hypothalamus and hypophysis in the control of the estrous cycle.

Correspondence and discussions with a number of research personnel and administrators resulted in practically unanimous agreement that a conference on the rather specific topic of estrous cycle control in domestic animals would contribute to a more coordinated research effort and a better understanding of the needs for additional research.

The 12 invited speakers and their papers drew an attendance of 100 from 35 States and 2 foreign countries. Among those attending were representatives from the fields of animal and veterinary science at State, Federal, and commercial research laboratories.

The assistance of Dr. B.N. Day and Dr. Dwane Zimmerman in planning the program and of Dr. William Hansel, Dr. L. E. Casida, Dr. R. M. Melampy, Dr. A. V. Nalbandov and Dr. H. H. Cole in conducting the conference is gratefully acknowledged.

For their willingness to host the conference and their assistance with local arrangements, thanks are due the University of Nebraska and its Center for Continuing Education, whose representatives helped so agreeably throughout the planning and execution of the conference.

C. F. Sierk
Conference Chairman
Cooperative State Research Service
U.S. Department of Agriculture

July 1965
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**PROGRAM PARTICIPANTS**

- E. F. Frolik  
  University of Nebraska
- L. L. Anderson  
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- B. N. Day  
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- P. J. Dziuk  
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- R. E. Hodgson  
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- R. M. Melampy  
  Iowa State University
- A. V. Nalbandov  
  University of Illinois
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