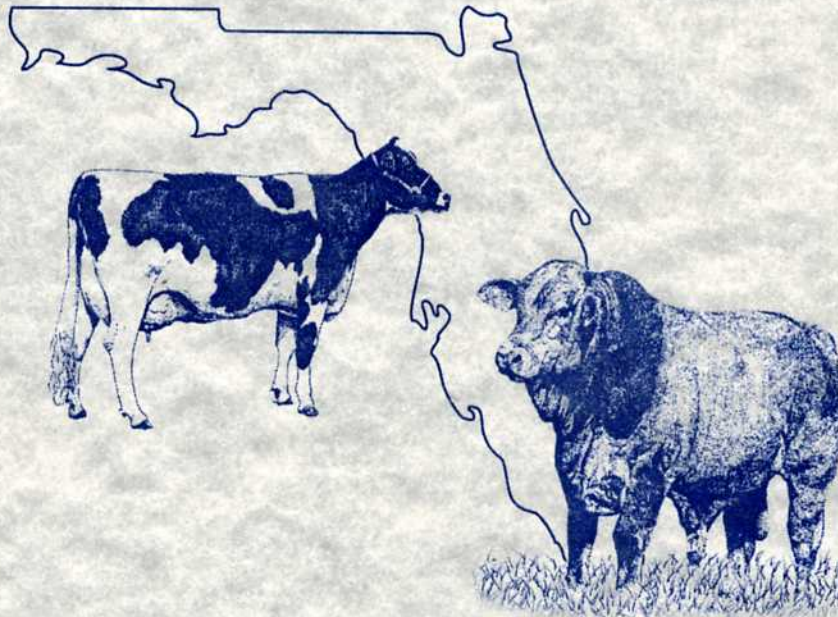


10th Annual Florida Ruminant Nutrition Symposium



Gainesville, Florida
January 14-15, 1999

PROCEEDINGS



UNIVERSITY OF
FLORIDA

Institute of Food and Agricultural Sciences
Dairy and Animal Science Departments

1999 FLORIDA RUMINANT NUTRITION SYMPOSIUM
Holiday Inn West, Gainesville, FL

Departments of Animal Science and Dairy & Poultry Sciences
University of Florida, Gainesville

Thursday, January 14, 1999

10:00 - 5:00 Registration

AFTERNOON SESSION - B. Reiling, Presiding

1:00 Welcome

1:10 Commercialization of biotechnology in agriculture - C. Baile

2:00 Feed ingredient factors influencing intestinal amino acid supply in ruminants
- N. Merchen

2:40 Is methionine first limiting amino acid for growing cattle fed forages? - W. Kunkle

3:20 Break

J. Chapman, Presiding

3:40 Factors affecting forage protein fractions - B. Reiling

4:20 Managing energy reserves to optimize reproduction - R. Lemenager

5:00 Reception

Friday, January 15, 1999

MORNING SESSION - B. Haskins, Presiding

8:00 Options in managing manure phosphorus - H. H. Van Horn

8:40 Dietary phosphorus, phosphorus excretion, and environmental concerns - R. Conrad

9:20 Mycotoxins in silage: A silent loss in profits - A. Gotlieb

9:50 Break

H. H. Van Horn, Presiding

- 10:10 Corn silage for the south: Management and new technology - D. Wright
- 10:50 Design, selection, and use of TMR mixers - D. Kammel
- 11:30 Management strategies against ruminal acidosis - M. B. Hall
- 12:15 Symposium concludes

Additional copies of these proceedings are available at \$15 per copy.
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University of Florida Speakers

Department of Animal Science

W. Kunkle
B. Reiling

Department of Dairy & Poultry Sciences

M. B. Hall
H. H Van Horn

Department of Agronomy, North Florida REC

D. Wright

Guest Speakers

C. Baile..... University of Georgia
H. R. Conrad..... Ohio State University
D. W. Kammel..... University of Wisconsin
R. P. Lemenager..... Purdue University
S. R. Merchen..... University of Illinois

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10th Annual FLORIDA RUMINANT NUTRITION SYMPOSIUM

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