

TABLE OF CONTENTS

GENERAL SESSION I

Bovine Anaplasmosis E. J. Richey.....	3
<i>Leptospira interrogans</i> Serovar <i>hardjo</i> Infection of Cattle Carole A. Bolin.....	12
Bovine Gastric and Intestinal Cryptosporidiosis: Present Situation Bruce C. Anderson.....	15
Bovine Spongiform Encephalopathy – Only a British Concern? Mark M. Robinson.....	19

GENERAL SESSION II

Using and Interpreting Diagnostic Tests Liz Spangler.....	22
Critical Reading of the Scientific Literature Dale Hancock.....	29

DAIRY SESSION I

Impacts of Early Postpartum Metabolism on Follicular Development and Fertility Jack H. Britt.....	39
Nutritional and Hormonal Factors Influencing Follicle Development in Cattle W. W. Thatcher, J. Savio, C. R. Staples, M. C. Lucy, R. L. de La Sota.....	44
Nutritional Management of the Late Pregnant Dry Cow with Particular Reference to Dietary Cation- Anion Difference and Calcium Supplementation D. K. Beede, C. A. Risco, G. A. Donovan, C. Wang, L. F. Archbald, W. K. Sanchez.....	51
Managing Body Condition Scores to Maximize Milk Yield and Reproduction Leon D. Weaver.....	56

DAIRY SESSION II

The Net is Gross – Dairy Financial Herd Health Assessment and Monitoring Donald J. Klingborg.....	59
Farming the Dairy Cycles Don R. Rogers.....	65
Offering Financial Consultation as Part of a Production Medicine Practice John W. Ferry.....	71

DAIRY SESSION III

Opportunities in Replacement Heifer Growth A. J. Heinrichs.....	73
--	----

Mastitis Control in Replacement Heifers Stephen C. Nickerson, William E. Owens.....	76
Considerations for Replacement Heifer Housing William G. Bickert.....	79

COW/CALF SESSION I

Neonatal Physiology and Fluid Therapy of Calves Allen J. Roussel, Jr.....	84
--	----

COW/CALF SESSION II

Congenital Defects of Current Concern in Beef Cattle H. W. Leipold, D. J. Steffen, N. Woollen, T. Hiraga, S. M. Dennis.....	87
Pharmacology in Neonatal Calves Scott A. Brown.....	96
Fatal Non-Responsive Diarrhea in Beef Calves 6 to 8 Weeks of Age Otto M. Radostits, Calvin W. Booker, Graham Shepherd.....	101

COW/CALF SESSION III

Calving Season Management Robert G. Mortimer, David L. Morris.....	110
Enhancement of Pre-weaning Performance Larry R. Corah, Mitch R. Blanding.....	114

FEEDLOT SESSION I

Using Epidemiology as an Aid in Feedlot Disease Management Carl S. Ribble, Joyce Van Donkersgoed, Richard J. Harland, Eugene D. Janzen.....	122
Laboratory Diagnosis of Virus Infections in the Feedlot Richard E. Mock.....	128
Postmortem Examination of Feedlot Animals Calvin W. Booker, Eugene D. Janzen.....	131

FEEDLOT SESSION II

Assessing Antimicrobial Efficacy Gerald D. Mechor.....	134
Assessing Vaccine Efficacy in the Feedlot Carl S. Ribble.....	137

PRACTICE TIPS

7% Saline IV, A New Approach to an Old Problem J. A. Hines.....	142
High Heels for Holsteins or . . . THE THRILL OF VICTORY OVER THE AGONY OF DE FEET Reilly Glore.....	142

Spandex and The Dairy Scene: A Fashion Glimpse From the Northeast
Kevin D. Pierce.....143

Conducting Field Trials in Your Practice: The ABC's of Getting Involved
Roger Saltman.....144

Water: What You See Is Not Always What You Get!
David A. Reid.....145

Mastitis Control Without A Slap In The Face
Andrew P. Johnson146

North By Northwest: New Directions For Better Heat Detection
A. G. Wesselius147

Heifer Co-op: Broader Veterinary Services For Smaller Beef Producers
W. Mark Hilton148

Formulating Anionic Dry Cow Rations
David I. Byers149

Synchronizing Mineral Supplements With Forages For Beef Cattle
John Doyle.....151

Lifting The Bovine Fore Leg
J. K. Harness.....152

A Look at Computer Care and Maintenance
Jim Ehrlich153

Uterine Lavage: A New Look At An Old Technique
A. L. Lazzarotto154

The Five Minute Postmortem – A Simple Approach to Field Diagnosis
P. T. Guichon, G. K. Jim155

Bovine Spongiform Encephalopathy in the UK: An Update
Peter W. Edmondson155

Herd Health for the Beef Cattle Operation!
Ed Richey, Ross Hendry, Scott Cornwell.....156

Challenge Model for *Escherichia coli* in the Colostrum Deprived Calf
Louis D. Hunt, Jr., Elaine Hunt,
Kevin L. Anderson, Joelle Ibanes.....171

Protective Effects of a Commercial Cheese Whey Derived Immunoglobulin Product Against Septicemia *Escherichia coli* Challenge in Colostrum Deprived Calves
Elaine Hunt, Louis D. Hunt, Joelle Ibanes,
Kevin L. Anderson172

Successful Treatment of Bovine Retained Placenta by Umbilical Cord Injection of Collagenase
Hugo Eiler, Fred M. Hopkins,
Hugh McCampbell173

Opsonizing Antibodies to Virulence Factors of *Pasteurella haemolytica*
T. L. Bowersock, D. Ryker, J. Maddux,
R. N. Moore.....174

Effect of Alkaloids Produced by *Acremonium coenophialum* in Fescue on Vascular Function in Cattle
Jack W. Oliver, Robert D. Linnabary,
L. Kim Abney, Henry S. Adair, III174

Projected Days Open – Fact or Fallacy
Patrick J. Hady175

Dry Cow Therapy and Mastitis Control, An Observational Study
W. M. Sischo, G. Y. Miller, L. E. Heider179

Effects of Method of Vaccination on the Performance and Health of Feeder Calves
William A. Phillips, David L. VonTungeln181

XVII World Buiatrics Congress, XXV American Association of Bovine Practitioners Conference185



RESEARCH SUMMARIES

The Survivability of Twins From Pregnancy Diagnosis to Calving and the Effects Twin Pregnancies Have on Milk Production, Culling, and Gestation Length in Holstein Dairy Cattle
John D. Day, Leon D. Weaver, Charles E. Franti168

Selenium Supplementation of Beef Heifers: Comparison of a Sustained-Release Selenium Bolus to an 120 PPM Selenium Salt-Mineral Mixture
William S. Swecker, Dennis K. Blodgett,
Dan E. Eversole, Craig D. Thatcher.....169

Concurrent Infection of Young Calves With *Eimeria bovis* and *coronavirus*
K. H. Hoblet, W. P. Shulaw, L. J. Saif, S. E. Weisbrode, S. E. Lance, D. R. Redman.....169

Ibuprofen Therapy in Lactating Dairy Cows
F. J. DeGraves, K. L. Anderson.....170

Advertisers' Index

Hoechst-Roussel Agri-Vet Co.106 a,b

Pfizer, Inc.....63

Sanofi Animal Health, Inc.....Inside Front Cover

Schering-Plough Animal Health.....70

SmithKline Beecham Animal Healthxviii

The Upjohn CompanyInside Back Cover