

6th ANNUAL CONVENTION

AMERICAN ASSOCIATION OF BOVINE PRACTITIONERS

DEC. 2-5, 1973 • SHERATON-FORT WORTH HOTEL • FORT WORTH, TEXAS

PROCEEDINGS



The Conference Proceedings are published by
THE AMERICAN ASSOCIATION OF BOVINE PRACTITIONERS

at

Heritage Press
2510 East Sixth Street
Stillwater, Oklahoma 74074

Copies of the Proceedings may be purchased for \$15.00 (fifteen dollars) from the Editor or Dr. Harold Amstutz, Executive Secretary-Treasurer, Box 2319, W. Lafayette, Indiana 47906. Veterinary students may purchase copies for half price (\$7.50). (Note: Proceedings of the First through Third AABP Annual Conventions were not published as separate publications.)

The Convention photographs were taken by Mr. Bob Doonan,
College of Veterinary Medicine, Texas A&M University,
Dr. A. L. Koltveit, AVMA, and the editor.

Cover Photo
Fort Worth Skyline

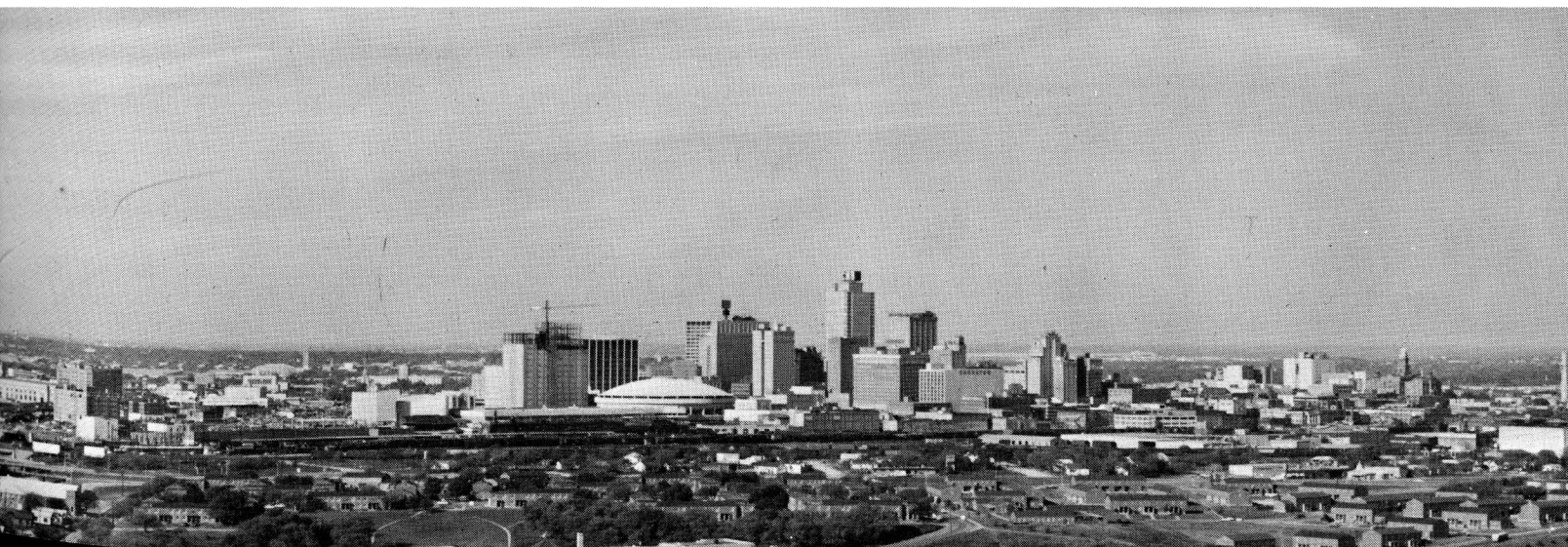
PROCEEDINGS
of the
SIXTH ANNUAL CONVENTION
AMERICAN ASSOCIATION OF BOVINE PRACTITIONERS

December 2-5, 1973

Sheraton Fort Worth Hotel
Fort Worth, Texas



Edited by
Eric I. Williams, *F.R.C.V.S., M.S.*
Department of Medicine and Surgery
College of Veterinary Medicine
Oklahoma State University
Stillwater, Oklahoma 74074



Foreword

The Christmas lights in Fort Worth, Texas, were not turned on due to the energy crisis. The cover picture of our recent issue of *The Bovine Practitioner* showed us what it would have been like in a "normal" year. However, the enthusiasm and the warmth of our hosts and hostesses were undimmed, a joy to behold, and a pleasure to receive.

One thousand two-hundred and eighteen attended the convention, which included 723 veterinarians, 119 students, 122 exhibitors and 254 ladies. Nieman Marcus must have been swamped on the Tuesday morning tour!

The pre-convention tours were attended by 670 registrants. Special thanks to our hosts at the N. B. Hunt Ranch, Van Roach Cattle Company and Lion Country Safari for their wonderful cooperation.

The scientific program at each convention continues to excel. The sessions were exceptionally well attended at Fort Worth.

The Table Topics are not published herewith, but the participants deserve much credit for their fine presentations.

Texas hospitality even surpassed its own wonderful reputation at the barbeque prepared by Jetton's and enjoyed by 746 of us!

I feel sure that all of us went home for Christmas greatly enriched scientifically and with wonderful bonds of friendship which were made with a large number of professional colleagues.

God gave us memories so that we may have roses in December. Fort Worth certainly is the place "where the best begins."

And now for Columbus, Ohio.

March 1, 1974

Eric I. Williams
Editor

VIII INTERNATIONAL CONFERENCE ON CATTLE DISEASES

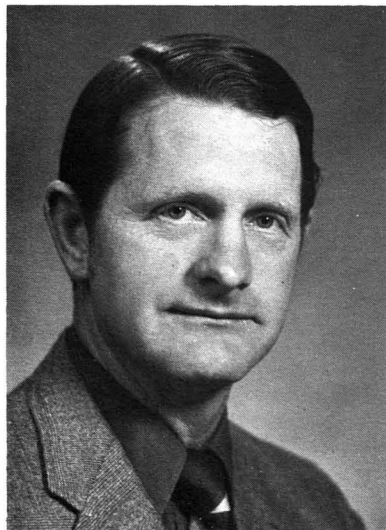
MILAN, ITALY

September 9-13, 1974

Further information from:

Dr. Harold Amstutz, President
World Association of Buiatrics
Purdue University
Lafayette, Indiana 47906

AABP Officers



President
Ben D. Harrington, D.V.M.
Raleigh, North Carolina



President-Elect
Leo Mac Cropsey, D.V.M.
Denver, Colorado



Executive Secretary-Treasurer
Harold E. Amstutz, D.V.M.
Lafayette, Indiana



Vice-President
Vernon L. Tharp, D.V.M.
Columbus, Ohio

**REPRESENTATIVES
TO THE AVMA
HOUSE OF DELEGATES**

Maurice L. Weldy, D.V.M.
Wakarusa, Indiana

Harold E. Amstutz, D.V.M.
Lafayette, Indiana
(Alternate)



Past-President
Francis H. Fox, D.V.M.
Ithaca, New York

BOARD OF DIRECTORS

Samuel Hutchins, III, D.V.M.	South Barre, Vermont—1st District, 1975
Jack E. Shanks, D.V.M.	Olney, Maryland—2nd District, 1973
James A. Jarrett, D.V.M.	Rome, Georgia—3rd District, 1975
Glen C. Hoffsis, D.V.M.	Columbus, Ohio—4th District, 1975
Leland C. Allenstein, D.V.M.	Whitewater, Wisconsin—5th District, 1973
Joseph W. Sexton, D.V.M.	Sumner, Iowa—6th District, 1974
John L. Noordsy, D.V.M.	Manhattan, Kansas—7th District, 1975
Horace T. Barron, D.V.M.	College Station, Texas—8th District, 1973
Lloyd C. Faulkner, D.V.M.	Fort Collins, Colorado—9th District, 1973
Robert J. Harris, D.V.M.	Turlock, California—10th District, 1975
Frank K. Bracken, D.V.M.	Pullman, Washington—11th District, 1973
Otto M. Radostits, D.V.M.	Saskatoon, Saskatchewan—12th District (Canada), 1975

AABP Convention Exhibitors



Samuel Hutchins, III, D.V.M., Chairman, Exhibits Committee, and Re-elected Director, District I.

The AABP wishes to acknowledge the companies listed below for their support at the convention.

American Cyanamid Co.
Attn: Lawrence W. Groves
P.O. Box 400
Princeton, New Jersey
Animal Nutrition, Inc.
Attn: Jack Bugg
6608 West Main St.
Belleville, Ill.
Armour Baldwin Lab
Attn: A. R. Ricke
Box 3113
Omaha, Nebr.
Astoria Fibra-Steel, Inc.
Attn: James A. Clark
Box 726
Astoria, Ill.
Beecham-Massengill
Attn: P. A. Sells
501-551 Fifth St.
Bristol, Tenn.
Bowie-Derr, Inc.
Attn: E. M. Peterson
313 So. Hancock St.
Lake City, Iowa
Brae Laboratories, Inc.
Attn: William N. Chandler, D.V.M.
Box 221
Terre Haute, Indiana

Burns-Biotec Labs.
Attn: E. L. Saxton
9456 Marshall Dr.
Lenexa, Kan.
W. A. Butler Co.
Attn: R. W. Butler, Sales Mgr.
1493 North High St.
Columbus, Ohio
Ranger Division
Delphi Products Co., Inc.
Attn: G. L. Underhill
P.O. Box 256
Delphi, Ind.
Diamond Laboratory, Inc.
Attn: Donald G. Walters, Sr.
P.O. Box 863
Des Moines, Iowa
Eaton Laboratories Division
Norwich Agr. Products
Attn: Frank Schiralli
P.O. Box 19
Norwich, New York
Elanco Products Co.
Attn: Robert A. Cruise
Box 1750
Indianapolis, Ind.
Far-Vet Supply Co.
Attn: Chick Schenfeld
1775 University Ave.
St. Paul, Minn.
For-Most, Inc.
Attn: Royle D. Ferguson
Box 322
Hawarden, Iowa
Fort Dodge Labs.
Attn: Dr. William R. Ryan
800 Fifth St., N.W.
Fort Dodge, Iowa
Haver-Lockhart Labs.
Attn: Jack C. Clark
P.O. Box 390
Shawnee Mission, Kansas
Holmes Serum Co., Inc.
Attn: Gloria Sweet
P.O. Box 729
Springfield, Ill.
Jensen-Salsbery Labs.
Attn: Miss Elaine Dye, Adv. Mgr.
520 West 21st St.
Kansas City, Missouri
Merck & Co., Inc.
Attn: Mr. Clarence F. Cogdell
126 East Lincoln Ave.
Rahway, New Jersey
Midwest Veterinary Supply
Attn: Glenn Ellensen
9235 Penn Ave., So.
Bloomington, Minn.

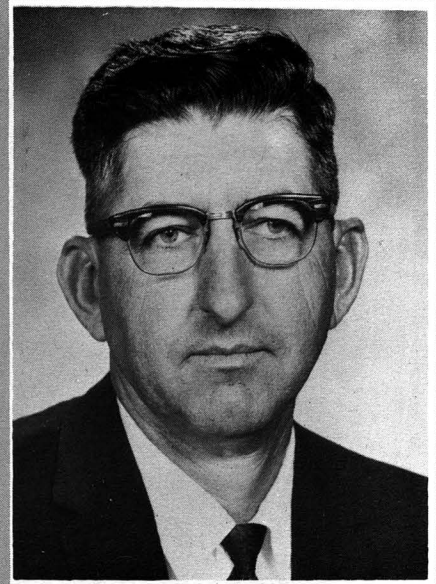
Norden Laboratories
Attn: Cecil F. Metzger
601 West Cornhusker Hwy.
Lincoln, Nebraska
Pitman-Moore, Inc.
Attn: Wm. Downs
P.O. Box 344
Washington Crossing, N.J.
Schering Corp.
Convention Coordinator
Animal Health Division
Attn: Margaret Kluepfel
Galloping Hill Rd.
Kenilworth, N.J.
Schneider Veterinary Supply
Attn: Ron Schneider
4721 Femrite Drive
Madison, Wisconsin
E. R. Squibb & Sons, Inc.
Attn: Robert Wagner
Box 4000
Georges Road
New Brunswick, N.J.
Twin AA Cutlery Co., Inc.
P.O. Box 429
308 N. Buckeye Ave.
Abilene, Kansas
Veterinarian Specialties, Inc.
Attn: Robert E. Shaw, Jr.
1630 Blairs Ferry Road, NE
Cedar Rapids, Iowa
The Upjohn Co.
Attn: Fred G. Heslar
Gull Hill Rd.
Building 190
Kalamazoo, Mich.
Vitamineral Products Co.
Attn: Paul S. Casey Jr.
1520 N. E. Adams St.
Peoria, Ill.
Bristol Laboratories
Attn: Herbert Wright
Thompson Rd.
Syracuse, New York
Osborn Labs Inc.
Attn: Pat Franz
2nd & Oak St.
LeSueur, Minn.
Ritchey Manufacturing Co.
Attn: Mrs. E. B. Ritchey
Rt. 3, Box 58
Brighton, Colo.
Veterinary Economics Magazine
Wohler Livestock Products Co.
Box 9272
Amarillo, Texas 79105

Convention Committees



*Horace T. Barron, D.V.M.
College Station, Texas*

Co-Chairmen Local Arrangements Committee



*Raymond A. Ivie, D.V.M.
Follett, Texas*

GENERAL COMMITTEE:

L. Mac Cropsey (Chairman), Golden, Colorado
John Herrick, Ames, Iowa
Harold Amstutz, Lafayette, Indiana

LOCAL ARRANGEMENTS:

Horace Barron, College Station, Texas
Ray Ivie, Follett, Texas
(Co-Chairmen)
E. T. Skidmore, Hurst, Texas

AUDIO-VISUAL & SIGNS:

Ray Ivie, Follett, Texas
Bob Doonan, College Station, Texas

BARBECUE (JETTON'S):

Monte Y. Swatzell, Cleburne, Texas
R. E. Parker, Crowley, Texas
Verne A. Scott, Stephenville, Texas

BREEDING SOUNDNESS SEMINAR:

Lloyd Faulkner, Fort Collins, Colo.
Fayne Oberst, East Lansing, Mich.
John Simons, Torrington, Wyoming

COW-CALF SESSION:

Archie P. Andrews, Archer City, Texas
Jack K. Ward, Hamilton, Montana
Don Klinkerman, La Junta, Colorado

DAIRY SESSION:

James A. Jarrett, Rome, Georgia
William C. Stouder, Ontario, California
Wallace R. Larson, San Antonio, Texas

EXHIBITS:

Sam Hutchins, South Barre, Vermont
Barry Allen, Rotan, Texas
Bob Jones, Childress, Texas

FEEDLOT SESSION:

Dave Bechtol, Dimmit, Texas
Milton L. Green, Mitchell, Nebraska
Harold B. Rinker, Spearman, Texas

LADIES' PROGRAMS:

Mrs. E. T. Skidmore, Hurst, Texas
Mrs. William Kirksey, Fort Worth, Texas

LUNCHEONS & BREAKFASTS:

William M. Lynch, Dallas, Texas
John Rame, College Station, Texas

PRACTICE TIPS:

Robert Harris (Chairman), Turlock, California
Assisted by the Board of Directors

PRE-CONVENTION TOURS:

E. T. Skidmore, Hurst, Texas
Dwain Cannon, Mansfield, Texas

POST-CONVENTION SEMINAR –

(Vail, Colorado):

R. Vince Jessup (Chairman), Glendale, California

PUBLICITY:

Wallace Larson, San Antonio, Texas
Charles Huff, Austin, Texas
Albert Koltveit, Chicago, Illinois

QUALITY MILK SEMINAR:

James Jarret (Chairman), Rome, Georgia

REGISTRATION:

Harold Amstutz, Lafayette, Indiana
Joe Bitter, Edna, Texas

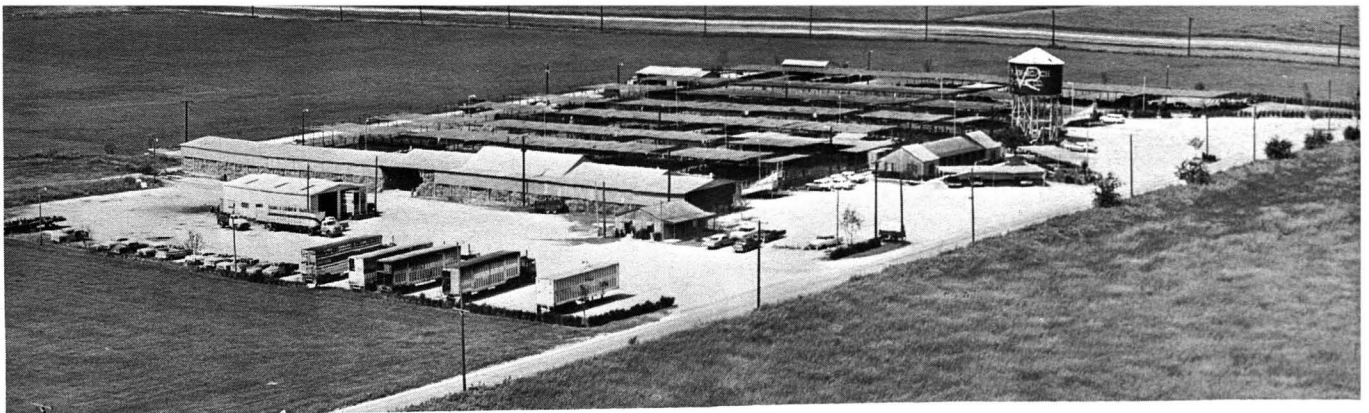
TABLE TOPICS:

Joseph Sexton, Sumner, Iowa
Otto Radostits, Saskatoon, Saskatchewan, Canada
Wallace Wass, Ames, Iowa

Convention Tours

Tour 1: Van-Roach Cattle Company, Roanoke, Texas, and the N. B. Hunt Ranch, Terrell, Texas.

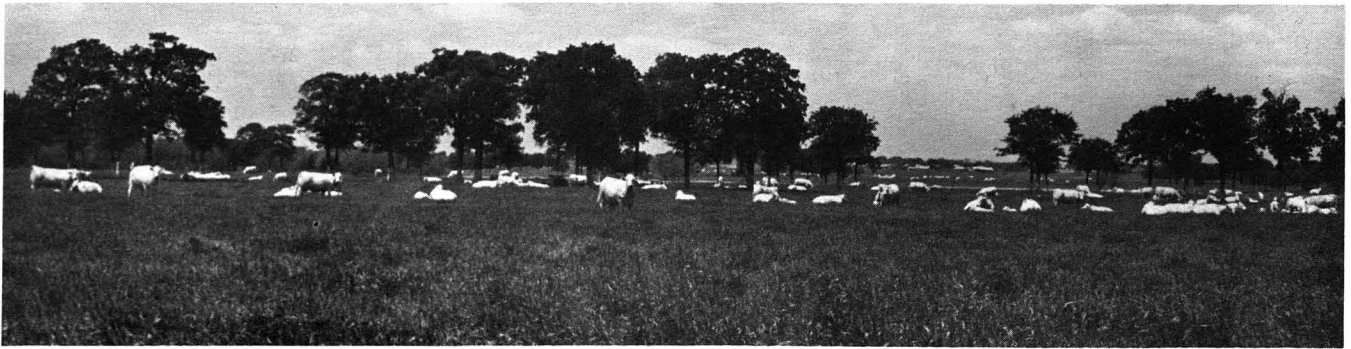
Vann-Roach is an Order Buyer. The facilities for processing their calves are second to none. Their cattle handling equipment is hydraulically operated, designed by Vann-Roach and built on their premises by their crews. This company handles between 350,000 and 375,000 head of cattle annually. All their accounting is done on their own computers which are also housed in their stockyard.



N. B. Hunt has long been a leader in the Charolais cattle business as well as commercial cattle and thoroughbred horses. Both ranches could be called “model” ranches. The Hunt Ranches are in the cattle business in a big way. In April of 1971 they had their first four-day sale and sold over \$4 million worth of cattle. In 1973 their four-day sale again grossed \$4 million.

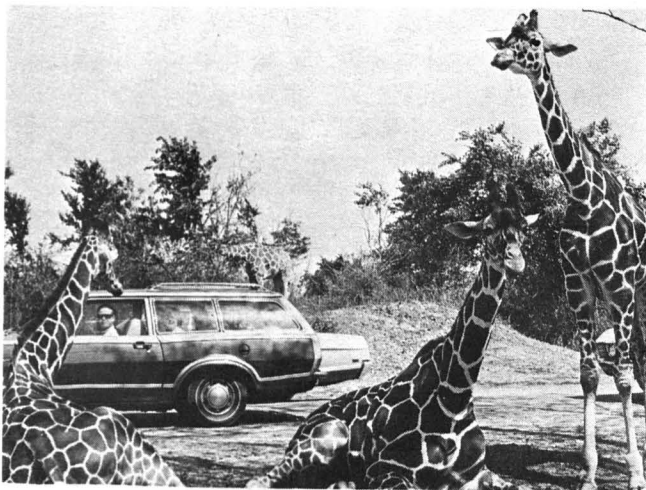
The top photo was taken during a sale day. The striped tent near the pens houses the sale ring while the one in the right foreground houses the “full French” cattle. The tent in the center foreground is for the barbeque. The second photo is a pasture scene at the Hunt Ranch. Tour Guide: Dr. Dick Shepherd.





Tour 2: Lion Country Safari

This African wildlife preserve is situated off the Dallas-Fort Worth Turnpike in Grand Prairie, Texas. The stars of "Africa transplanted to America" are the free-roaming animals themselves. The tour will offer new dimensions to human appreciation of untamed animals in their natural environment. Opened in 1972, Lion Country's theme is designed towards putting visitors within "eyeball-to-eyeball" distance of hundreds of wild African animals in a 485-acre wildlife preserve and amusement park.



Coming back from shopping at Nieman Marcus.



Table of Contents

Theme: What's The Present and Future of Bovine Practice?

Panel Discussion: Questions About Bovine Practice You've Always Wanted to Ask	1
---	---

Moderator: Dr. John Herrick
 Assistant Moderator: Dr. Harold Amstutz
 Panel Members: AABP Directors

General Session

Dr. L. Mac Cropsey, Chairman

Blood, Douglas C., The Future of Bovine Practice	13
Mulhern, Francis J., The Bovine Practitioner and the Federal Veterinarian	26
Pope, L. S., The Role of Bovine Practitioners in the Modern Livestock Industry	30
Ferrer, Jorge, A New Test for the Detection of the Bovine Leukemia Virus	32

Practice Tips

Dr. Robert J. Harris, Chairman

Troutt, Fred, Bovine G-I Tract	33
Heider, Lawrence E. and Tharp, Vernon L., Amputation of Prolapsed Cervical Rings	34
Sterner, Edward, Application of Certain Enzyme Tests in Bovine Practice	35
Carson, John, Bovine Restraint	37
Hines, Jake, Laparotomy Anesthesia and Suture Technique	38
Jernigen, L. D., Practical Vehicle Management	39
Spencer, R. H., Surgical Treatment of Urolithiasis	39
Jones, Robert E., Practice-Owned Leasing Company for Vehicles and Other Equipment in a Large Animal Practice	40
Allen, Barry, From the Cradle to the Table—Beef Programming	43
Murray, Ed, Improving Reproductive Performance of the Three-Year-Old Beef Heifer	44
Mongini, Frank A., Practical Approach to Fluid Therapy	45
Reddick, Harry, Thoughts on Preconditioning	47
Blackmer, Paul E., Management of Colostrum	48
Harris, Robert J., Two-Bit Tips	48

Nutrition in the Lactating Cow (Dairy Section)

Dr. James Jarrett, Chairman

Bath, Donald L., Energy and Fiber in Dairy Cow Rations and Utilization by the Modern High-Producing Cow	49
Morrison, S. H., Protein and Protein Replacers for Dairy Cattle	55
Jarrett, Charlie J., Blended Total Rations for Lactating Cows	62
Troutt, H. Fred, Pathology Associated with Rations	68
Panel Discussion: James Jarrett, Chairman	73

Raising Dairy Calves (Dairy Section)

Dr. William Stouder, Chairman

Thomas, R. Dean, Gamma Globulin and Early Calf Mortality	77
Kahrs, Robert F. and Hillman, Robert B., An Epidemiologist Looks at Calf Disease	79
Schugel, LaVerne M., Nutrition of the Baby Calf	82
Bryant, Bob, A Successful Program for Raising Dairy Calves	89
Panel Discussion: William Stouder, Chairman	92

(Cow-Calf Section)

Dr. Archie P. Andrews, Chairman

Kennedy, Peter C., The Unexplained Abortion	95
Ward, Jack, Weak Calf Syndrome	97
Twiehaus, M. J. and Mebus, C. A., Viruses as a Cause of Neonatal Calf Losses	105
Edwards, Alvin J., Fluid Therapy in Treating Dehydration	107
Panel Discussion: Archie P. Andrews, Chairman	110

Management and Treatment of the Weaner-Stocker Calf (Cow-Calf Section)

Dr. Don Klinkerman, Chairman

Lofgreen, G. P., Addis, D. G., Dunbar, J. R., Clark, J. G., Crenshaw, G. L., Hinman, D. D., Management and Treatment of the Weaner-Stocker Calf in California	112
Shaffner, Don K., Management and Treatment of the Weaner-Stocker Calf in Montana	118
Champlin, Bruce C., From the Ranch into the Feedlot	119
Panel Discussion: Don Klinkerman, Chairman	122

Epidemiology and Confinement Operations (Feedlot Section)

Dr. Hal Rinker, Chairman

Kahrs, Robert F., Basic Epidemiology in Confinement Operations	123
Eugster, A. K., Results of Virological Examinations of "Feedlot" Specimens During 1973 at TVMDL	125
Panel Discussion: Dr. Hal Rinker, Chairman	127
Goodwin, John W., Implications of Adjustments in the Beef Industry for Related Industries, 1970-1980	129

General Session: Current Topics That May Change Your Practice

Dr. Vernon Tharp, Chairman

Slater, Robert L., Bovine Coccidiosis: A Review of the Problem and Projected New Solution	147
Morrow, David A., Potential Uses of Prostaglandins (PGF2a) for the Practitioner and Cattle Industry	153

**General Session: Yesterday's Fireman, Today's Practitioner,
Tomorrow's Specialist**

Dr. Wallace Larson, Chairman

Allenstein, L. C., Dairy Industry	157
Morfett, Frank, Cow-Calf Industry	159

General Session (continued)

Dr. Francis Fox, Chairman

Blood, Douglas C., Preventive Medicine and Infertility in Herd Health Programs	162
Linney, John J., Has the Practitioner A Future for Pharmaceutical Sales	171
Cardon, B. P., Nutrient-Recycling – Modern Energy Management	177
Appendix	182