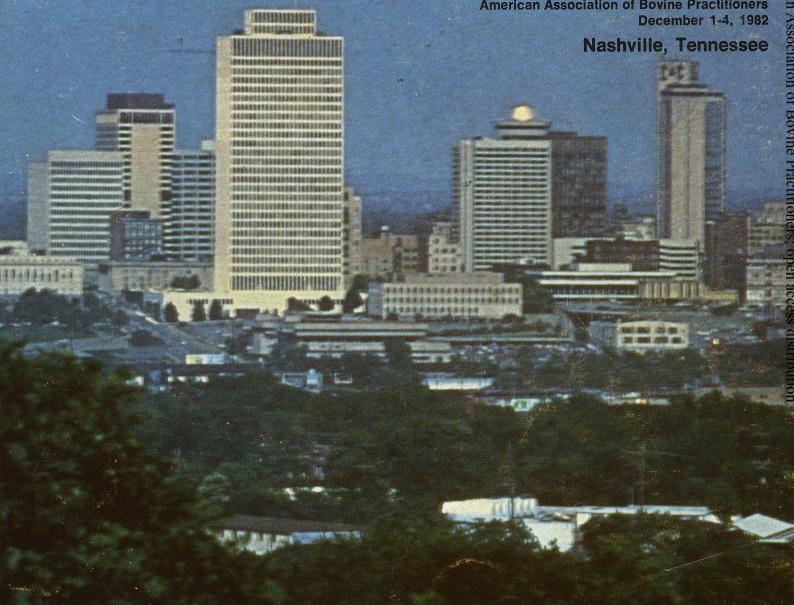


The Bouine

THE OFFICIAL PUBLICATION OF THE AMERICAN ASSOCIATION OF BOVINE PRACTITIONERS

15th ANNUAL CONFERENCE

American Association of Bovine Practitioners











Tune in while you drive.

Your idle time becomes learning experiences.

If you are like most veterinarians, you probably drive over 15,000 miles per year. Averaging 40 mph you spend 375 hours behind the wheel of your car. And for the most part that's idle time.

You probably agree with the statement, "time is money." Now you can turn your idle time into fabulous learning sessions by tuning in to the spoken journal of veterinary medicine.

Sit back, relax, and enjoy stimulating clinical lectures of practical importance to you. From more than 600 hours of medical recordings, we skillfully edit each tape to give you the pearls n' nuggets of hundreds of lectures by renowned medical authorities.

You'll tune in to such stimulating conferences as the American, Intermountain, California, Washington, Texas, New York, Ohio, and Michigan Veterinary Medical Association conferences. Plus the American Associations of Equine, Bovine, Swine Practitioners.

HOW IT WORKS:

As a subscriber you receive one information-packed cassette and reference index (frequency depends upon program).

Now 5 journals to serve you:

- Small Animal*-12 issues \$90.
- Equine Medicine*-12 issues \$90.
- Dairy Medicine -6 issues \$54.
- Beef Medicine -6 issues \$54.
- Swine Medicine 6 issues \$54.

* Includes self-evaluation quiz with each tape.

Turn your next idle hour into a learning session.

SUBSCRIBE TODAY

Phone collect

213-799-1979

During California business hours

This number is only for placing orders via Master Charge, Visa or American Express Credit Cards

Audio Veterinary Medicine

INSTA-TAPE, INC. Phone: (213) 303-2531 810 South Myrtle Avenue P. O. Box 1729 Monrovia, CA 91016-5729 The Bouine PRACTITIONER

Eric I. Williams, F.R.C.V.S., M.S.

College of Veterinary Medicine

Oklahoma State University

Stillwater, Oklahoma 74078

Department of Medicine and Surgery

No. 17

November, 1982

ADVERTISING MANAGER:

Leland C. Allenstein, D.V.M. 306 S. Pleasant Whitewater, Wisconsin 53190 Tel. No. (414) 473-2094

OFFICERS

President Robert H. Keith, D.V.M.

Monroe, Wisconsin 53566

President-Elect Glen F. Hoffsis, D.V.M.
Columbus, Ohio 43210

Vice-President Jenks S. Britt, D.V.M.

Russellville, Kentucky 42276

Past-President John F. Cote, D.V.M.
Ontario, Canada NOB 2KO

Executive Sec.-Treas. Harold E. Amstutz, D.V.M.
West Lafayette, Indiana 47906

BOARD OF DIRECTORS:

Darrell E. Johnson, D.V.M.

Weyauwega, Wisconsin 54983 5th District, 1982

James O. Hanson, D.V.M. St. Paul, Minnesota 55108 6th District, 1983

J. Harry James, D.V.M.
Pond Creek, Oklahoma 73766
7th District, 1984

Joseph W. Bitter, D.V.M. Edna, Texas 77957 8th District, 1982

Donald B. Hudson, D.V.M. North Platte, Nebraska 69101 9th District, 1983 Michael G. Kerfoot, D.V.M.
Bakersfield, California 93309
10th District, 1984

Robert L. Darlington, D.V.M. Snohomish, Washington 98290 11th District, 1982

Neil G. Anderson, D.V.M. Canada LOP 1CO 12th District, 1983

Edward M. Shacklady, D.V.M. Okotoks, Alberta, Canada 13th District, 1984

REPRESENTATIVES TO AVMA HOUSE OF DELEGATES:

EDITOR:

Kenneth W. Benson, D.V.M.

1st District, 1984

2nd District, 1982

3rd District, 1983

Keith E. Sterner, D.V.M.

Herbert C. Lloyd, D.V.M.

Arcadia, Florida 33821

Ionia , Michigan 48846 4th District, 1984

Bainbridge, New York 13733

George E. Washington, D.V.M.

Purcellville, Virginia 22132

Leland C. Allenstein. D.V.M. **Harold E. Amstutz.** D.V.M. (Alternate)

The Bovine Practitioner is published by the American Association of Bovine Practitioners, Inc., at Frontier Printers, Stillwater, Okla. 74074 (phone 405—372-8500). Over 6000 copies are mailed to veterinarians engaged in cattle practice and allied institutions. Send new address (please include old address) to: **Dr. Harold Amstutz**

Dr. Harold Amstutz Exec. Sec.-Treas., AABP Box 2319 W. Lafayette, Indiana 47906

Editorial Board

At the Annual General Meeting on Dec. 10, 1976, AABP members approved the appointment of an editorial board for this journal. Members of the board are Dr. Leland Allenstein, Dr. Harold E. Amstutz, and the editor, Dr. Williams. The journal is thus an official, refereed publication.

By agreement between the Board of Directors, American Association of Bovine Practitioners and the World Association of Buiatrics, this journal will serve as a communication medium between Bovine Practitioner Associations across the world. A limited number of papers related to bovine practice will be accepted from overseas correspondents. Notices and brief reports of national conventions on cattle diseases will be accepted for publication. All communications must be presented in English and sent to the editor **before July 15.**

Copies of the Bovine Practitioner are available to non-members for \$12.50 per copy surface mail (\$2.50 extra for air mail. Veterinary students half price.

NOVEMBER, 1982

Table of Contents

Understanding and Dealing with Stray Voltage Problems—R. J. Gustafson, H. A. Cloud, R. D. Appleman	4
The Effect of Disinfectants on the Density of Coliforms in Sawdust Bedding— E. Y. Bashandy, L. E. Heider	16
TI/59 Program Based on Somatic Cell Counts for Estimating Subclinical Mastitis Loss—J. H. Kirk	20
Approved and Unapproved Drug Use in Dairy Cattle—R. W. Meiring	26
An Economic Comparison of Two Estrus Synchronization Programs For Dairy Heifers—J. J. Mora, L. E. Heider, H. L. Barr	32
Advances in the Diagnosis of Infectious Bovine Abortion—J. F. Evermann	36
A Discussion on Reproductive Failure in Cattle—R. B. Miller.	39
Antimicrobial Resistance of Strains of Pasteurella hemalytica Isolation From Feedlot Cattle—H. E. Amstutz, R. L. Morter, C. H. Armstrong	52
Clinical Evaluation of Prophylactic Regiments For Bovine Respiratory Disease R. L. Morter, H. E. Amstutz, R. A. Crandell	56
Infectious Bovine Rhinotracheitis Virus and Parainfluenza-3 Virus in the Nasal Flora of Dairy Calves—R. W. Fulton, N. J. Pearson, M. T. Potter, W. T. Springer, M. M. Downing, H. V. Ragstad, S. S. Nicholson	59
Infectious Bovine Rhinotracheitis, Bovine Viral Diarrhea and Parainfluenza-3 Viral Antibodies in Louisiana Cattle—R. W. Fulton, C. L. Seger	63
Rapid Diagnosis of Rotavirus by an Enzyme-Linked Immunosorbent Assay (ELISA) in an Outbreak of Neonatal Diarrhea in Dairy Calves—S. J. McGuire, A. E. Castro	66
Differential Diagnosis of the Right Sided "Ping"—B. L. Hull	72
Left Abomasal Displacement in Calves—Prof. Dr. G. Dirksen	75
Closed Suturing Techniques Using a Bar-Suture For Correction of Left Displaced Abomasum—A Review of 100 Cases—K. E. Sterner, J. Grymer	80
Current Aspects of the Primary Insufficiency of the Motor Functions of the Reticulum and Rumen—Prof. Dr. G. Dirksen	85
Student Clinical Reports Diarrhea and Hypoproteinemia in the Calf of a Mastitic Dam—A. L. Kiorpes Bovine Uterine Torsion: A Review Illustrated by Cases from the Western College of Veterinary Medicine Large Animal Clinic—J. Manning, P. Marsh, F. Marshall, R. McCorkell, B. Muzyka, D. Nagel	91
Report on a Food Animal Case—M. R. Olson	94 99
Congenital Defects of Current Concern and Interest in Cattle: A Review — H. W. Leipold	101
Ocular Anomalies of Incomplete Albino Hereford Cattle—S. A. Ojo, K. Huston, H. W. Leipold, K. N. Gelatt	115
Anaplasmosis Treatment and Control—R. C. Searl	122
Effects of a Sustained-Release Oxytetracycline Bolus For Anaplasmosis Carriers— R. L. Byford, J. L. Riner, K. M. Kocan, J. A. Hair	123
Bovine Fascioliasis: Economic Impact and Control in Gulf Coast Cattle Based on Seasonal Transmission—J. B. Malone, A. Loyacano, D. A. Armstrong, L. F. Archbald	126
Foot-and-Mouth Disease Vaccination: A Review—C. A. Mebus, P. D. McKercher	134
Tall Fescue Summer Toxicosis in Cattle—A. C. Hammond, I. Bond, B. Stroud	134

Metabolic Disorders in Farm Animals Disorders of Thiamine Metabolism in Young Ruminants—E. E. Edwin,	
R. Jackman	143
Genetic Influences on the values of Metabolites and Enzymes in the Blood of Dairy Cows: F. Graf, H. Tenhumberg and H. Kräu Blich	145
Use of the Computer in the Study of Metabolic Disorders of Dairy Cows— I. Beseda, K. Boda, J. Va'l'Ka	146
Liver Metabolism in the Dairy Cow: Problems Involved in meeting the De-	147
mands of High Productivity—G. D. Baird Fatty Liver in Dairy Cows—Incidence, Severity, Pathology and Functional	
Consequences—I. M. Reid The Low Milkfar Syndrome: Some Metabolic Consequences of High Grain	149
Restricted Roughage Rations—P. vanBeukelen, Th., Wensing, H. J.Breukink Metabolic Disorders Associated with Hypomagnesemia and Hypocalcemia	150
in Grass Tetany in Ruminants—Y. Rayssiguier The Effect of Different Selenium Supplementations to Cattle—G. Jonsson, S. Johnsson and B. Pehrson	151152
Research and the Real World—D. C. Blood	155
How Mice Can Help Cattle—L. K. Bustad	163
-	10)
Preventing an Exotic Disease Outbreak and Responding to Such Outbreaks— K. A. Hand	165
British Cattle Veterinary Association Annual Congress—"Cattle Production and Medicine"—A. H. Andrews	168
15th Annual Conference	173
AABP 1982 Program Committee	173
1982 AABP Conference Exhibitors	182
Nashville: Music City, U.S.A.	187
AABP Officers—Message From the President	190
New Directors	192
XII World Congress on Diseases of Cattle	193
Pre-Convention Tour	194
AABP Honorary Membership For James Herriot	196
Dr. Morrow Receives AFMA Award	19 7
In Memoriam	197
XIII World Congress For Buiatrics, Johannesburg, Republic of South Africa:	
September 17 to 21, 1984	198
Membership Application	199
Advertisers' Index	
Audio Veterinary Medicine	over
MSD-AGVET-Division of Merck & Co., Inc.	25
Schering Corporation	
Squibb and Sons, Inc.	
F. W. Cislak Manufacturing and Engineering Co., Inc	90
Beecham Laboratories, Div. of Beecham, Inc	
The Upjohn Company	
Cover Photo: Nashville, Tennessee Skyline with inset Photos of Opryland and Opryland	
Courtesy of Nashville Convention Bureau.	,

NOVEMBER, 1982