

Twenty-Second Annual Conference

Kansas City, Missouri

November 14-17, 1989

Specialty Seminars November 11-17, 1989

Theme: Keeping Up-To-Date in Kansas City

AN INVITATION TO KANSAS CITY

Bob and Jerri Smith

District 7 (MO, KS, OK) of the AABP is delighted to again have the opportunity to host the AABP convention. The local arrangements committee has worked very hard to offer you the best convention ever. We are fortunate to host the convention in a central location, making it accessible by car for many. Kansas City International Airport is a major terminal with countless daily flights. Fares are low cost if planned in advance.

Compared to many conventions held in large cities, you will find the hotel room rates arranged by the planning committee to be quite inexpensive. Kansas City has countless famous but inexpensive restaurants and entertainment choices.

The program committee has assembled an outstanding scientific program and there is a good balance of topics for both the beef and dairy practitioner. The local arrangements committee has arranged an outstanding social and tour program. Spouse tours include the Truman Library, Nelson Art Gallery, Victorian homes, the Hallmark Visitors Center and, of course, shopping. The banquet will feature the best of jazz and magic. If you choose to participate in pre-convention or post-convention tours, you can tour pharmaceutical companies, see feeding research facilities and experience the Ag Hall of Fame.

If you choose to venture out on your own, Kansas City offers a wide choice of restaurants, night life, museums, theaters and shopping. Agriculture related industries abound in Kansas City.

PRESIDENT'S MESSAGE AND INVITATION

Keith Sterner

This year's annual meeting assures us of the opportunity to update our skills and prepare for future challenges in bovine practice. The meeting offers something for everyone and will expand the horizons of all attendees. Additionally, Kansas City's central location and friendly demeanor make it a great place to meet. The program committee under the direction of President-Elect Tom Fuhrmann, continues to offer the past tradition of excellence in continuing education and yet strives to set new precedents for innovation and change which are the hallmarks of a vital and dynamic organization. First time attendees will find this meeting to be a unique blend of educational opportunities as well as the chance to make acquaintances and friendships which will last a lifetime. Your board of directors and officers are particularly proud of this opportunity to meet with you and to address the many needs and concerns of our membership. Come to Kansas City and join your bovine practitioner colleagues for the experiences of a lifetime, I'm certain you'll enjoy it.

REGISTRATION

Monday, November 13—7:00 am-5:00 pm
Basie East-2nd Floor Foyer, Allis Plaza Hotel

Tuesday, November 14—7:00 am-5:00pm
Level 2 Bartle Hall North

Wednesday, November 15—7:00 am-5:00 pm
Level 2 Bartle Hall North

Thursday, November 16—8:00 am-5:00 pm
Level 2 Bartle Hall North

Friday, November 17—8:00 am-5:00 pm
Level 2 Bartle Hall North

BOARD OF GOVERNORS' MEETINGS

Bennie Moten A & B Room, Allis Plaza Hotel

Monday, November 13—8:00 pm-10:00 pm

Tuesday, November 14—7:00 am-1:00 pm & 3:00-5:00 pm

Wednesday, November 15—Noon-1:30 pm

Thursday, November 16—Noon-1:30 pm*

*Invited guests in attendance

AABP COMMITTEE MEETINGS

Tuesday, November 14—1:00 pm-3:00 pm

Count Basie Ball Room A, Allis Plaza Hotel

OPENING EVENING HOSPITALITY

"Kansas City Welcome"

Tuesday, November 14

Reception and Meal—5:00 pm-7:00 pm

Exhibit Area Bartle Hall North - Level 3

Program Committee Welcome—7:00 pm-7:30 pm

Keynote Speaker—7:30 pm-9:00 pm

Rooms 212 S & 212 N Bartle Hall North - Level 2

What could be nicer when arriving in a new town and a strange hotel after traveling all day, than to enjoy a casual evening with old acquaintances, new friends, or just being by yourself? Everyone will be at an early evening reception where you can enjoy a cocktail, a snack, a meal, music, and friends.

The new AABP Distinguished Service Award and the Research Assistantship Award will be given during this session.

Then move to Level 2 for an AABP welcome and an evening of fun and humor. Our keynote speakers have been the "hit of the meeting" for the last two years and will be again this year. Joe Griffith subscribes to the theory that laughter is the best medicine. Enjoy an evening of his contagious humor that will leave you laughing and motivated all at the same time!

ANNUAL BUSINESS MEETING AND AWARDS LUNCHEON

Friday, November 17

Noon-2:30 pm

Count Basie Ball Room, Allis Plaza Hotel

All AABP members should attend and sit in areas designated for their district. Membership business will be conducted. Highlights are

presentation of awards and officer elections. Tickets are included in member's registration packet.

REGISTRANTS LUNCHEON

Wednesday, November 15 & Thursday, November 16

Noon-1:30 pm

Exhibit Area, Bartle Hall North - Level 3

These two luncheons are for all registrants, including exhibitors. Spouses have other activities scheduled and are not included. Tickets are provided in registration packets at no additional charge.

SPOUSE HOSPITALITY ROOM

A spouse hospitality room will be available from Tuesday, November 14 through Friday, November 17 and will be open from 8:00 am to 5:00 pm.

The Big Joe Turner A Room, Allis Plaza Hotel will serve as the hospitality room each day. Refreshments will be available and are the courtesy of Hoechst-Roussel Agri-Vet Company.

PUBLIC RELATIONS PRESS BREAKFAST

Wednesday, November 15

7:00 am-9:00 am

Yardbird A Room, Allis Plaza Hotel

For the second year, the Board of Governors will host a breakfast for media personnel to familiarize them with the AABP and our annual meeting. Attendance is by invitation.

CHRISTIAN VETERINARY MISSION BREAKFAST

Thursday, November 16

6:45 am

Room 211 Bartle Hall North - Level 2

Free will offering at the breakfast. Please indicate on the general meeting registration form if you will attend. Tickets will not be issued.

COMPUTER SOFTWARE DEMONSTRATION

Tuesday, November 14 - 8:00 am-5:00 pm

Thursday, November 16 - 8:00 am-Noon, 3:30 pm-5:00 pm

Friday, November 17 - 8:00 am-Noon

Mary Lou Williams A and B Room, Allis Plaza Hotel

Jim Ehrlich - Coordinator

A new addition to the 1989 AABP meeting is the Computer Software Demonstration Lab. Individuals and software companies who have software and shareware that they would like to demonstrate to interested practitioners will be given the opportunity to display their programs at scheduled times during the meeting. Computers will be available for hands-on experience as time and space allow. This will be an informal setting allowing participants to test drive and compare programs from various vendors. A schedule of the software demonstrations will be posted at the registration desk and outside the computer lab.

GENERAL SESSIONS

Three general sessions constitute the first 1 1/2 days of the program format. Each session offers registrants practical, cow-side information for general practitioners. Whether you work with dairy or beef cattle, whether you are in a mixed practice or do exclusively cattle work, these sessions contain useful information for you. In addition, a "Residue Avoidance Symposium" is scheduled for Wednesday afternoon. This symposium brings to one table all the policy-makers involved in residue avoidance regulations. It will be a working session that is a continuation of initiatives started by AABP representatives and regulatory officials earlier this year. You are invited to question and comment to the panel

regarding regulatory challenges you face in practice.

GENERAL SESSION I

"Consumer Concerns, Producer Demands:

The Veterinarian's Responsibility"

Wednesday, November 15

8:00 am-12:00 Noon

Rooms 212 S & 212 N Bartle Hall North - Level 2

Moderator: Steve Vaughn

For bovine practitioners who constantly face the responsibility associated with extra-label drug use, making antibiotic withdrawal time recommendations, and writing prescriptions, to remain current with the information available relative to drug and chemical residues in meat and milk. FDA representatives and practitioners in leadership roles in organized veterinary medicine address practical residue avoidance issues.

- 8:00 Major Accomplishments of FDA's Veterinary Medicine Advisory Committee in Residue Avoidance Issues Affecting the Bovine Practitioner - **Glen Hoffsis**
- 8:30 The Current Perspective on Drug and Chemical Residue Problems from FDA's Center for Veterinary Medicine - **Richard Teske**
- 9:00 Drug and Chemical Residues in Milk and Dairy Products - **Jonnie Nichols**
- 9:30 Break
- 10:00 Drug and Chemical Residues in Meat - **Richard Carnevale**
- 10:30 Residue Detection: A Survey of Available Technology - **S. F. Sundlof**
- 11:00 Update on AVMA Legislative Activities Relative to Food Safety and Drug and Chemical Residues - **Stanley Held**
- 11:30 Organized Veterinary Medicine Representing the Interests of the Bovine Practitioner - **Arnold E. Hentschl**

GENERAL SESSION II

"Fine Tuning Surgical Skills for Bovine Practice into the 1990's"

Wednesday, November 15

1:30 pm-5:00 pm

Rooms 212 S & 212 N Bartle Hall North - Level 2

Instructors: Bruce Hull, Gatz Riddell

For the practitioner desiring to enhance or expand his/her surgical skills in the management of a variety of commonly observed problems in cattle.

- 1:30 Ocular Surgery for Squamous Cell Carcinoma
- 2:00 Surgical Repair of Vaginal/Cervical/Uterine Prolapse
- 2:30 Surgical Correction of Perineal Injuries
- 3:00 Surgery for the Urine Pooling Cow
- 3:30 Break
- 3:50 Urolithiasis in the Feedlot Animal and Breeding Bull
- 4:20 Preparation of the Teaser Bull
- 4:40 Differential Diagnosis and Conservative Therapy for Breeding Injuries in the Bull

GENERAL SESSION III

"Fine Tuning Medical Skills for Bovine Practice into the 1990's"

Thursday, November 16

8:00 am-12:00 Noon

Rooms 212 S & 212 N Bartle Hall North - Level 2

Instructors: Karl Kersting, Jim Thompson, Mike Rings, Glen Hoffsis

- 8:00 Tracheal Stenosis and Collapse in Young Beef Calves
- 8:25 Diagnostics and Treatment of Hepatic Lipidosis
- 9:00 Acute Respiratory Distress in Beef Cattle
- 9:30 Break

- 10:00 Retropharyngeal laceration, abscesses and esophageal obstructions in cattle - diagnosis, prognosis, and treatment
- 10:30 Therapeutic management of Paratuberculosis in the valuable cow
- 11:00 Consideration of CNS disease in beef cattle
- 11:40 Diagnostic techniques applicable to food animal practice: collection of spinal fluid and tracheal wash
- 12:00 Therapeutic Management of the Johnes cow
- 12:30 Retropharyngeal Lacerations, Abscesses and Esophageal Obstructions

RESIDUE AVOIDANCE SYMPOSIUM

"AABP Initiative: To Be Proactive in Residue Avoidance Issues"

Wednesday, November 15

1:30 pm-5:00 pm

Room 214 S Bartle Hall North - Level 2

Moderator: Keith Sterner

Panel: Teske, Nichols, Carnevale, Hoffsis, Hentschl, Brunton, Adams, Wilkes, Smith, Darlington, Sundlof, Held, Griffin, Deyhle, Hutchinson

This symposium brings together regulatory officials, industry leaders, practitioners and the audience in a forum to discuss practical residue avoidance issues. In January of this year, AABP representatives met with FDA and drug industry officials to determine how the practitioner can deal with extra-label drug use and how we can legitimately recommend withdrawal times for those drugs. Many of the people involved in those discussions appear in General Session I. This symposium will continue the dialogue initiated earlier and attempt to summarize recommendations for responsible drug handling for the practitioner. American Association of Bovine Practitioner members are invited to question and comment to the panel regarding specific factors which affect or limit their ability to achieve residue free animal production.

- 1:30 Panel Introduction and Position Statement – **Keith Sterner**
- 2:00 Practical Measures for Residue Avoidance in Veal Calf Production – **Larry Hutchinson**
- 2:15 Practical Measures for Residue Avoidance in Dairy Operations – **Bob Darlington**
- 2:30 Practical Measures for Residue Avoidance in the Feedlot – **Dee Griffin**
- 2:45 Practical Measures for Residue Avoidance in Cow/Calf Operations – **Charles Deyhle**
- 3:00 Break
- 3:30 Panel Response and Discussion
- 4:15 Roundtable Discussion and Audience Participation

SPLIT SESSIONS

Split sessions are designed for all meeting registrants, but allow you to select topics related to your specific interests in either dairy, cow/calf, or feedlot practice specialties. Subject matter will be much more specific to beef or dairy than in general sessions. Lecture style format allows speakers to cover a considerable quantity of information in each of three half-day sessions.

COW/CALF SESSION I

The costs for this session has been underwritten by a grant to AABP from Ft. Dodge Laboratories, Ft. Dodge, Iowa.

"Trichomoniasis - Facts and Fallacies"

Thursday, November 16

1:30 pm-5:00 pm

Room 215 Bartle Hall North - Level 2

Moderator: Dan Barrett

To provide the beef practitioner with a complete review of the current information available on the pathology, epidemiology and management of "trich."

- 1:30 Disease Epidemiology, the Pregnant Cow, and the Status of Trichomoniasis as a Reportable Disease – **Don Barrett**
- 2:15 Diagnostic Procedures, Cow Immunity, and the California NAHMS Survey – **Bob Bondurant**
- 3:00 Break
- 3:20 Pathogenesis, Economic Significance and Vaccine Studies in Colorado – **Bob Mortimer**
- 4:05 National Incidence, Vaccine Licensure and Efficacy – **Bill Kvasnicka**
- 4:50 Panel Discussion

COW/CALF SESSION II

"Beef Breed Characterization and Utilization"

Friday, November 17

8:00 am-12:00 Noon

Room 215 Bartle Hall North - Level 2

Moderator: Gary Rupp

To expand the practitioner's understanding of current fundamental and practical results of genetic research.

- 8:00 Basic Beef Genetics – **Robert Cook**
- 9:00 Viable Production Breeding Alternatives – **Larry Cundiff**
- 10:00 Break
- 10:20 Management Practice Integration; How the Practitioner Puts It To Work – **Gary Rupp**
- 11:15 Evaluating the Trends; What the Information To Date Tells Us – **Keith Gregory**

COW/CALF SESSION III

"Integrated Resource Management and Practice Opportunities"

Friday, November 17

2:30 pm-5:15 pm

Room 215 Bartle Hall North - Level 2

Moderator: David Nash

To discuss the application of successes and failures in IRM programs relative to beef practice.

- 2:30 Experience with an Established and On-going IRM Program in the Midwest – **Don Hudson**
- 3:15 Direct Returns from IRM Implementation in Beef Practice – **Jack Walker**
- 4:00 IRM Program: What are the Opportunities for the Practitioner? – **Kurt Wolgemuth**

DAIRY SESSION I

The costs for this session have been underwritten by a grant to AABP by the following companies: American Cyanamid, Wayne, NJ; Eli Lilly and Company, Indianapolis, IN; Monsanto Company, St. Louis, MO; Upjohn Company, Kalamazoo, MI.

"Bovine Somatotrophin: Its Application in Dairy Practice"

Thursday, November 16

1:30 pm-5:00 pm

Rooms 212 S & 212 N Bartle Hall North - Level 2

Moderator: Darrel Johnson

BST use on dairy farms is imminent; precise methods of use, effects on management, and ramifications on animal health are not yet clearly understood. This session will bring to the dairy practitioner the newest state of the art information on BST and its opportunities in practice.

- 1:30 BST: Nutritional Considerations – **Mike Hutjens**

- 2:05 Productivity and Reproduction; Changes Due to BST –
Jack Britt
- 2:40 Udder Health - Current Knowledge on the Influence of BST
on Milk – **Phil Sears**
- 3:15 Break
- 3:45 Health Programs for Productivity Using BST – **Leon Weaver**
- 4:20 Consumer and Milk Marketing Concerns Because of BST
Produced Milk – **Barbara Keating-Edh**

DAIRY SESSION II

The costs for this session have been underwritten by a grant to AABP from American Cyanamid, Wayne, NJ.

"Production Medicine Records: Computers and On-Dairy Records"

Friday, November 17

8:00 am-12:00 Noon

Rooms 212 S & 212 N Bartle Hall North - Level 2

Moderator: Steve Smalley

Production medicine implies strategic monitoring of performance criteria on dairy farms. The dairy practitioner will be introduced to the cutting-edge tools to monitor dairies and will be shown their application as part of dairy practice.

- 8:00 Hand Calculated Records; Their Use for Client Motivation –
Ken Norlund
- 8:55 Computer Spreadsheets for Analysis of Dairy Farm Perfor-
mance – **John Fetrow**
- 9:50 Break
- 10:10 The Technique and Use of Profiling the Dairy Herd –
Howard Redlus and Arden Nelson
- 11:00 Using Dairy Computer Software and DHIA Records – **Steve
Eicker**

DAIRY SESSION III

The costs for this session have been underwritten by a grant to the AABP from the Monsanto Company, St. Louis, MO.

"Bovine Behavior and Cow-Friendly Environments"

Friday, November 17

2:30 pm-5:30 pm

Rooms 212 S & 212 N Bartle Hall North - Level 2

Moderator: Gordon Jones

For the dairy practitioner to become aware of the changes he/she may influence on the dairy, in both the physical environment and the cow's living environment. Recommending changes to improve the cow's environment can impact her performance.

- 2:30 Remodeling Existing Facilities: Changes That Will Produce
More Profit – **Bill Bickert**
- 3:10 Adapting Bovine Behavior to Improve Performance –
Temple Grandin
- 4:00 Dairy Herd Facilities Designed for Efficient Production –
Dennis Armstrong
- 4:50 The Dairy Practitioner's Opportunity to Improve the Cow's
Environment – **Gordon Jones**

FEEDLOT SESSION I

The costs for this session have been underwritten by a grant to the AABP from Schering Corporation, Kenilworth, NJ.

"Immune Function in Feedlot Cattle"

Thursday, November 16

1:30 pm-5:00 pm

Room 214 S Bartle Hall North - Level 2

Moderator: Jim Sears

Through this session, feedlot practitioners will more thoroughly understand the interaction of vitamins and micronutrients with stress, disease, and function of the immune system. Factors affecting Vitamin

E requirements in normal and stressed animals as well as other factors involved in modulating bovine respiratory disease will be discussed. The interaction of micronutrients will be examined along with an approach to assess and correct micronutrient deficiencies in fed cattle.

- 1:30 Stress, Disease, and Vitamin E Requirements –
Cheryl Nockels
- 2:15 Immunomodulation of Bovine Respiratory Disease –
Jim Roth
- 3:00 Break
- 3:30 Applied Trace Element Nutrition – **Robert Coffey**

FEEDLOT SESSION II

"Production Procedures in the Feedlot"

Friday, November 17

8:00 am-12:00 Noon

Room 214 S Bartle Hall North - Level 2

Moderator: Jim Sears

For the feedlot practitioner to review and re-evaluate the economic, production, and efficacy impact of common procedures and products used in the feedlot. Products such as antibacterials and anthelmintics, as well as procedures such as castration, dehorning, etc. will be discussed and assessed with regard to their economic impact in day-to-day feedlot practice.

- 8:00 Pharmacology and Feedlot Therapy – **Dan Upson**
- 9:40 Break
- 10:00 Economic and Production Consideration of Common Feed-
lot Procedures – **Louis Perino**
- 11:00 Anthelmintics in the Feedlot – **John Cheney**

FEEDLOT SESSION III

"Feedlot Animals Found Dead in the Pen"

Friday, November 17

2:30 pm-5:00 pm

Room 214 S Bartle Hall North - Level 2

Moderator: Jim Sears

To provide the practitioner with an overview of the diagnostic approach and the nutritional and management interactions to consider when dealing with sudden pen deaths. Postmortem and diagnostic techniques, nutritional considerations, and an examination of acute respiratory disease are specific issues addressed in discussing the sudden death syndrome in feedlots.

- 2:30 Postmortem Procedures and Diagnostic Approaches to Pen
Deaths – **Al Edwards**
- 3:15 Nutritional and Management Considerations Associated with
Pen Deaths – **Keith Hansen**
- 4:00 Pen Deaths Associated with Acute Respiratory
Disease – **Robert Sprowls**

PRACTICE TIPS AND RESEARCH SUMMARIES

Practice tips and research summaries are held concurrently in adjoining rooms during the Wednesday evening sessions. This arrangement allows you to either listen to your colleagues describe tips they use to make daily practice better, easier, more profitable, or more fun; or to listen to researchers summarize current projects relevant to progressive veterinary professionals. Both sessions are packed with practical and technical information offered in a unique format. Either will provide you with valuable take-home information.

PRACTICE TIPS

Wednesday, November 15

7:30 pm-10:00 pm

Rooms 212 S & 212 N Bartle Hall North - Level 2

Moderator: Reilly Glore

Practice tip presenters have been charged with presenting tips in the following context. You are on the verge of passing through the "Pearly Gates," waiting to check in with St. Peter, and you are given one last chance to shout down the single most valuable 5-minute tip to your surviving colleagues:

- Catless Cat Carriers and the AABP – **Charlie Gardner**
- Overturning Turnover...What Can Your Practice Do To Attract and Retain Graduate Veterinarians – **Terry DeGross**
- The 5-Minute Attitude Adjustment Hour – **Alan Lippart**
- Block'em and Sock'em...Paralumbar Block and Rompun-Torbugesic Cocktail; Dunk'in Donuts - Ob Sleeve Retainer – **Peter Vanderloo**
- Dehorning Technique...No Holes Bared – **Dave Frueh**
- Aids for Bull Fertility Testing in the Field – **Lionel Ickes**
- Chicken Noodle Soup or the Boston Sea Harbor – **James Unwin**
- Tips from Head to Tail – **Jim Ehrlich**
- Monthly Herd Report Card; RX and Extra-Label Forms – **John Ferry**
- Alternatives to DHIA – **Jerry Harness**
- Do the Heifer Hustle – **Andy Johnson**
- No Bull TV...The Camcorder and Employee Education – **Paul Johnson**
- Nose Job! Repair Nose Ring Injuries – **Robert Milburn**
- Taking the Agony Out of the De Feet – **Lynn Sammons**
- Have You Diagnosed Bovine Spongiform Encephalopathy Yet? – **Brian Aldridge**
- Collage of Practice Tips – **Frank Welcome**

RESEARCH SUMMARIES

Wednesday, November 15

7:30 pm-10:00 pm

Room 215 Bartle Hall North - Level 2

Moderator: Gatz Riddell

Implementation of research results usually lag by 12 - 24 months from when the information is generated. Judicious use of preliminary information by experienced practitioners provides a more rapid yet safe means to reduce this lag time. This session will provide the forum for transferring research data to practitioners by previewing a wide variety of research results impacting on all avenues of bovine practice.

- Protocol for Testing Bovine Herds Persistently Infected with BVD – **John Thomson**
- Natural Prenatal and Postnatal Infections with Non-cytopathic Bovine Diarrhea Virus in a Beef Herd – **Clayton Kelling**
- Safety and Efficacy of a Bovine Sustained-Release Selenium Device – **Greg Sumner**
- Caudal Epidural Analgesia After Xylazine Injection in Cattle – **Guy St. Jean**
- Active Immunization of Cows with a *Salmonella typhimurium* Mutant Bacterin Toxoid and the Passive Transfer of Anti-Core-Antigen Antibodies in Colostrum – **R. B. Miller**
- Isolation of *Mycobacterium paratuberculosis* from Washed Bovine Ova after in vitro Exposure – **Ronald Rohde**
- Failure of a Strategic Deworming Program to Produce Parasitological or Weight Gain Changes in a Beef Cow/calf Herd – **Dee Whittier**
- Comparison of Acid Base Status in Bull Calves Fed Endophyte Free Infected Fescue Rations Under Conditions of Increasing Environmental Temperature – **Laurie Lea Mills**
- The Effect of a New Single-Injection Antibiotic for the Treatment of Bovine Respiratory Disease – **Tim Guichon**

- Bovine Spongiform Encephalopathy: differential diagnosis and research findings – **Philip Scott**

SEMINARS

The seminar program is designed to provide specialized, in-depth, cutting-edge information to the practitioner specialist. To complement a strong general program, seminars are built into our conference format to cater to those of you having specific CE requirements. Seminar registration fees entitle you to the most current technical information available, instruction from noted authorities in their fields, limited enrollment to allow one-on-one discussion, hand-out materials for future reference, and practical take-home information and ideas.

SEMINAR 1

The Production of Quality Milk

Objective: This seminar is designed to give the dairy practitioner an in-depth understanding of basic areas of mastitis control including microorganisms, milking equipment function, mastitis management concepts in large and small herds and milk quality evaluation methods.

Fee: \$525.00

Limit: 20

Level: Intermediate

Location: Jay McShann A Room, Allis Plaza Hotel

Date: November 11, 12, 13 (Saturday through Monday)

Time: 8:00 am-10:00 pm

Coordinator: Jim Jarrett (404) 235-2122

Faculty: Paul Blackmer, John Dahl, Bob Bushnell, Jim Jarrett

Description: This seminar has been presented since the initiation of seminars on the AABP program. The course offers a complete coverage of information needed by the dairy veterinarian who wants to offer clients a thorough milk quality/mastitis control program. The faculty brings an excellent blend of practitioners and educators with backgrounds in small, medium, and large herd management. Basic principles and sophisticated techniques will be presented in a practical format that involves discussions among all participants. Extensive use of video tapes will emphasize "hands on" experience in an informal classroom setting. This seminar will stimulate and prepare you to offer a complete mastitis control program to your clients. Some basic knowledge of mastitis is helpful prior to entry into this seminar.

Included in the registration fee is lunch on the first two days of the seminar and a large volume of hand-out material for the participant to review and use as reference material.

SEMINAR 2

Applied Dairy Nutrition and Field Study

Objective: This seminar is designed to give the dairy cattle practitioner basic information and practical training in the area of dairy cattle nutrition.

Fee: \$425.00

Limit: 30

Level: Basic to Intermediate

Location: Jay McShann B Room, Allis Plaza Hotel

Date: November 12, 13, 14 (Sunday through Tuesday)

Time: 1:00 pm-5:00 pm on November 12

8:00 am-8:00 pm on November 13

8:00 am-Noon on November 14

Coordinator: Mike Hutjen (217) 333-2928

Faculty: Larry Chase, R. C. Ebert, Mike Hutjen

Description: This program is a fast-moving and comprehensive three

day course for veterinarians featuring a series of hard-hitting, up-to-date presentations, a farm case study with hand-on labs on the farm; a problem solving follow-up of the case farm; and an optional computer evening program for awareness approach using the Illinois computer program. The seminars will be lecture type with ample time for questions. The study farm will apply the lecture material plus provide field labs. The third day will be a classroom evaluation of the farm visit with recommendations. Time will be available for one-on-one discussions and question/answer forums.

SEMINAR 3

Advanced Dairy Nutrition and Herd Nutritional Monitoring

Objective: This seminar is designed for the dairy veterinarian who is already providing some nutritional services for his clients. Current topics in nutrition and monitoring of feeding management will be covered.

Fee: \$300.00

Limit: 30

Level: Intermediate to Advanced (Enrollees should have completed basic nutrition course or have field experience)

Location: Lester Young B Room, Allis Plaza Hotel

Date: November 13, 14 (Monday - Tuesday)

Time: 8:00 am-5:00 pm

Coordinator: James Ferguson (607) 255-2875

Faculty: Andy Skidmore, Charlie Sniffen, Bill Chalupa, Dave Galligan, Linda Baker, James Ferguson

Description: This program is for the practitioner who is already involved with dairy cow nutrition management and is looking for up-to-date information from leading researchers in the area of dairy cattle nutrition. Topics such as the new NRC, fats, by-pass proteins, and BST will be covered. Dry cow feeding and feeding for reproduction will also be covered. This seminar will also address nutritional monitoring for production and profitability.

SEMINAR 4

Monitoring the Dairy Herd Using Microcomputers

Objective: This seminar is designed for the production medicine oriented dairy practitioner with some microcomputer experience to gain a better understanding of identifying, collecting, and analyzing performance criteria on all aspects of a dairy operation.

Fee: \$500.00

Limit: 30

Level: Advanced (Pre-requisite: Enrollees must have experience with the use of microcomputers and should have some familiarity with Lotus 123. A Lotus 123 tutorial will be given prior to the seminar.)

Location: Mary Lou Williams Room, Allis Plaza Hotel

Date: November 13, 14, 15 (Monday through Wednesday)

Time: 8:00 am-5:00 pm

Coordinator: Bob Harman (714) 627-7545

Faculty: John Fetrow, David Galligan, Bob Harman

Description: This three-day seminar includes two days in the micro-computer laboratory and one day on a local dairy. During the first day, you will learn the software, including spreadsheets, data base managers, and communication software and will develop an approach to organizing production data for analysis. On the second day you will go to the dairy to view the facilities and management and to collect the performance data. The

third day will be devoted to analyzing the data, preparing reports and developing strategies to present to the dairy owner or manager. IBM compatible computers and a variety of software will be available for use by participants. This seminar is in its third year. The faculty will present real world data and examples of the use of software in solving practice problems.

SEMINAR 5

Advanced Dairy Herd Monitoring

Objective: This seminar is intended only for those veterinarians who have taken the "Monitoring the Dairy Herd Using Microcomputers" and are presently using this technology in dairy herds. This seminar will offer participants the opportunity to discuss herd problems and situations encountered in practice.

Fee: \$175.00

Limit: 30

Level: Advanced (Prerequisite Dairy Herd Monitoring course and experience with field use)

Location: Jay McShann A Room, Allis Plaza Hotel

Date: November 16 (Thursday)

Time: 8:00 am-5:00 pm

Coordinator: John Fetrow (919) 829-4299

Faculty: Steven Eicker, Bob Harman, Charles Rinehimer, John Fetrow

Description: Using data from dairy herds the faculty and participants will discuss dairy herd monitoring and records analysis in depth. The focus will be on identifying herd level problems and syndromes of poor performance in dairy herds using computerized record systems. The seminar will also examine the practical aspects of implementing herd monitoring and record systems on dairies. Areas examined will include production, lactation curves, reproduction, mastitis, disease, and young stock performance. Although a variety of software will be used during the seminar (including the Dairy Herd Monitor and Dairycomp 305), the seminar will not be aimed at teaching the participant to use specific software. The focus instead will be on the analytic process involved in investigating herd problems. Participants will be encouraged to contribute problem herd information for discussion in advance of the meeting. This is an advanced seminar and participants should already be using computers and should be actively involved in monitoring herd records.

SEMINAR 6

Monitors of Dairy Herd Performance: DHIA and Hand Calculated Information

Objective: This seminar is intended for the dairy practitioner servicing small herds and desiring to understand dairy records and increase the ability to use them to accomplish herd health goals.

Fee: \$275.00

Limit: 30

Level: Basic

Location: Jay McShann B Room, Allis Plaza Hotel

Date: November 15-16 (Wednesday-Thursday)

Time: 8:00 am-5:00 pm

Coordinator: Ken Norlund, (218) 736-6961

Faculty: Jeff Reneau, Ken Leslie, Ken Norlund

Description: The focus of this two day seminar is the delivery of production medicine programs including reproduction, mastitis control, nutrition, and replacement rearing.

The course centers around interpretation of DHIA and supplemental records and the use of these records to identify problems, measure progress, and motivate change. An emphasis of the seminar will be on how to utilize records profitably and efficiently with the client on the farm rather than at your office. DHIA data from several herds is being collected and recalculated through most of the DHIA centers so that reports from the herds being analyzed will be presented on reports with which the registrants may be familiar. A large notebook filled with reference material is provided with the course.

SEMINAR 7

Measuring the Impact of Reproductive Performance on the Dairy Herd

Objective: This seminar is intended to assess reproductive status and identify reproductive constraints in small and large herds; and to design, monitor and evaluate reproductive programs. Participants have the opportunity to make economic assessments of their own programs and specific management/treatment strategies using microcomputers.

Fee: \$210.00

Limit: 30

Level: Intermediate (Entry level microcomputer experience desirable)

Location: Jay McShann A Room, Allis Plaza Hotel

Date: November 15 (Wednesday)

Time: 8:00 am-10:00 pm

Coordinator: Leon Weaver (209) 688-1731

Faculty: Jack Britt, Gary Rogers, Brad Seguin, G. Lynn Upham, Leon Weaver

Description: Routine rectal palpation is a well-established part of a practitioner's reproductive program. But do you do enough will all the information that you generate from palpating cows? Can your reproductive program be expanded to assess your client's herd reproductive performance so that he/she can make changes that will make more money? This day-long seminar will show you how to offer production medicine service by discussing four specific areas: measuring the impact of reproductive performance on the herd, the effect of heat detection and breeding management decisions, economic valuation of reproductive costs, and evaluating specific treatment strategies. An optional three hour evening session will be devoted exclusively to microcomputers for herd reproductive and economic analyses.

SEMINAR 8

Assessing Financial Health of Dairy Herds and Financial Decision Making

Objective: This seminar is intended to aid the practitioner in understanding basic economic principles using real data from dairy enterprises so that he can expand his interaction with management into financial areas.

Fee: \$150.00

Limit: 45

Level: Basic to Intermediate

Location: Andy Kirk A & B Room, Allis Plaza Hotel

Date: November 16 (Thursday)

Time: 8:00 am-5:00 pm

Coordinator: Donald Klingborg (209) 383-1325

Faculty: Donald W. Ozenbaugh Jr., Kenneth C. Scott, Michael Fitch, John Fetrow, Donald Klingborg

Description: You can expand service to your clients and be more

effective if you understand economic herd health. This seminar will follow an interactive discussion format to explain basic monetary principles, to analyze performance documents, and to describe methods to identify out of balance areas, and concepts necessary to make decisions about allocating financial resources against projected impact on herd profitability. Various financial documents will be examined with an eye toward finding and understanding pertinent information. Summaries of economic evaluations of dairies and expected ratio analysis of income/expenses will be presented. You will leave this seminar with a better understanding of decision making processes you and your client can go through to impact herd profitability.

SEMINAR 9

Embryo Transfer: The Practitioner's Role in Embryo Transfer Programs

Objective: This seminar is intended to provide the veterinarian who is not actively involved in embryo transfers with the information needed to develop an embryo transfer service or to become involved in helping with existing embryo transfer programs on client farms. Proper handling and transfer techniques for frozen embryos will also be presented.

Fee: \$125.00

Limit: 30

Level: Basic

Location: Lester Young A Room, Allis Plaza Hotel

Date: November 15 (Wednesday)

Time: 8:00 am-5:00 pm

Coordinator: Robert Rowe (608) 798-3900

Faculty: Ruben Mapletoft, Robert Rowe

Description: This seminar provides detailed instruction in all areas of embryo transfer. Information on equipment, supplies, and media will be presented. Topics to be covered include: superovulation; collection techniques (nonsurgical); embryo handling, grading, and morphology; media preparation; nonsurgical transfer, estrus synchronization programs; donor and recipient herd management; freezing techniques and equipment. Due to increased opportunities for practitioners to become involved in implanting frozen embryos, a special segment on this subject has been added.

SEMINAR 10

Embryo Transfer: Advanced

Objective: This seminar is intended for the practitioner who is involved in embryo transfer. In this course the most current concepts and techniques involving embryo transfer will be presented.

Fee: \$150.00

Limit: 30

Level: Advanced (Prerequisite, involvement in embryo transfers)

Location: Lester Young B Room, Allis Plaza Hotel

Date: November 15 (Wednesday)

Time: 8:00 am-6:00 pm

Coordinator: Joe Wright (512) 538-2289

Faculty: Richard Saacke, Jack Britt, Robert Godke, Ruben Mapletoft, Robert Rowe, Edwin Robertson, Joe Wright

Description: Endocrinology and folliculogenesis will be presented in a practical manner as it applies to embryo transfer. Superovulation concepts will be covered in discussions and mini-tapes. The role of semen as it applies to the

superovulated cow will be addressed in detail. Collection and culture media will be discussed as it applies in your daily practice. Cryopreservation and transfer and handling of frozen embryos will be discussed by the panel of faculty in a series of mini-topics. Time will be allotted for questions and discussion.

SEMINAR 11

Frozen Semen Evaluation

Objective: This seminar will provide the practitioner with the basic information and laboratory methods needed to competently evaluate frozen semen in your practice.

Fee: \$250.00

Limit: 24

Level: Intermediate

Location: Lester Young A Room, Allis Plaza Hotel

Date: November 16 (Thursday)

Time: 8:00 am-5:00 pm; 7:00 pm-10:00 pm

Coordinator: Edwin Robertson (615) 869-3666

Faculty: Richard Saacke, Al Barth, Joe Wright, Edwin Robertson

Description: Participants will be involved in a combination lecture and wet lab. Techniques for measuring post-thaw viability of frozen semen will be taught. Methods for determining concentration, morphology, and motility will be demonstrated in a wet lab. Lectures will include physiology of sperm development as it relates to morphological abnormalities. Evaluations will be made on actual semen samples. Complete information on microscopes, slide warmers, stains, and other equipment necessary for frozen semen evaluation will be given and equipment representatives will be available for equipment orders. This course should provide your practice with another income generating service.

SEMINAR 12

Feedlot Health Management

Objective: To provide information to practitioners that will help them upgrade their preventive medicine programs for their cattle feeder clients.

Fee: \$75.00

Limit: 30

Level: Basic to Intermediate

Location: Lester Young A Room, Allis Plaza Hotel

Date: November 14 (Tuesday)

Time: 8:00 am-5:00 pm

Coordinator: Al Edwards (913) 532-4254

Faculty: Al Edwards

Description: This seminar is designed for general practitioners desiring to improve their preventive medicine skills. There will be a review of the important diseases of feedlot cattle, the incidence of these diseases and some preventive procedures and treatment suggestions.

A feedlot record system will be presented that can be adapted to any feeder operation from the small feeder to the large feedlot. An example of a computerized program will be discussed which can be used as a health record system alone or integrated into existing management system.

Participants in this seminar should be able to do a better job of feedlot disease surveillance, record keeping, record evaluation and establishing feedlot health programs for feeder clients.

SEMINAR 13

Cow/Calf Production Management

Objective: This seminar has been designed for the veterinarian who is involved with cow/calf producers in a production

management program or would like to initiate a program with producers. In the seminar we will demonstrate the use of record keeping systems in cow/calf production analysis, deliver current cow/calf management and research information which can be used in developing management plans, and discuss the application and evaluation of management inputs and veterinary service into cow/calf operations.

Fee: \$90.00

Limit: 30

Level: Intermediate

Location: Big Joe Turner B Room, Allis Plaza Hotel

Date: November 15 (Wednesday)

Time: 8:00 am-5:00 pm

Coordinator: Mark Spire (913) 532-5700

Faculty: Larry R. Corah, Danny Simms, Mark Spire

Description: This seminar will detail herd record systems and their use in the evaluation of production efficiency and herd economic indices in cow/calf operations. Common areas of recurrent management deficiencies will be presented identifying cause, effect, and economically based corrective management recommendations. Production-orientated program marketing will be discussed detailing implementation and post-implementation, monitoring, evaluation and reporting.

SEMINAR 14

Stocker Cattle Management I

Objective: This seminar is designed for the practitioner who is operating a part-time or full-time beef cattle practice and would like to initiate or improve a program for stocker cattle producers. This seminar will address disease, nutrition, and management problems encountered from receipt of stocker calves through the first 30 days of the farm.

Fee: \$110.00

Limit: 30

Level: Basic to Intermediate

Location: Andy Kirk B Room, Allis Plaza Hotel

Date: November 15 (Wednesday)

Time: 8:00 am-5:00 pm

Coordinator: Bob Smith (405) 744-6656

Faculty: Tom Randolph, Dave Hutchens, Jim Roth, Bob Smith

Description: This seminar will provide the practitioner with a complete program for the stocker operation. Topics covered will include: facts and myths concerning the southeastern calf; assembly of stocker calves, backgrounding at point of origin; nutrition during the first 30 days at the stocker operation; immunology of the stressed calf; disease, treatment, and pathology; economic analysis of the stocker operation.

SEMINAR 15

Stocker Cattle Management II

Objective: This seminar is designed for the practitioner who is serving some beef producers on at least a part-time basis or would like to initiate a program with stocker producers and wants more in-depth knowledge in stocker cattle grazing management.

Fee: \$50.00

Limit: 30

Level: Basic to Intermediate

Location: Lester Young B Room, Allis Plaza Hotel

Date: November 16 (Thursday)

Time: 7:30 am-12:30 pm

Coordinator: Larry Smith (608) 592-3232
Duane Miksch (502) 365-7541

Faculty: Gil Myers, David Bransby, Larry Smith

Description: This is the second of two seminars addressing the problems of stocker cattle management starting where "Stocker Cattle Management I" concludes. Stocker Cattle Management II will cover rotational grazing programs, timing of deworming for effective parasite control, and the economics of grazed stocker cattle. The faculty are considered authorities in their respective area. This seminar is a must for the part-time or full-time beef practitioner desiring to improve stocker management knowledge and return home with some income producing ideas for the stocker producer.

Note: AABP wishes to express appreciation to Hoechst-Roussel Agri-Vet Co. for their assistance in providing cosponsorship for this program.

SEMINAR 16

Beef Bull Selection and Management

Objective: This seminar is intended for the production oriented veterinarian wanting an update on genetic selection, breeding soundness, pelvic measurement and management of beef bulls.

Fee: \$50.00

Limit: 45

Level: Intermediate

Location: Kansas City Stock Yard (Participants should meet in 3rd Floor Lobby, Allis Plaza Hotel)

Date: November 14 (Tuesday)

Time: 11:30 am-5:00 pm

Coordinator: Don Hudson (308) 532-3611

Faculty: Jim Gibb, Jim Gosey, Gene Deutscher, Local Purebred Breeder (TBA), Don Hudson

Description: This seminar will explain and demonstrate the use of Expected Progeny Difference (EPD) for genetic improvement using 2 lots of 4 bulls with known EPD's for calving ease/body weight, weaning weight, milk, yearling weight, and pelvic area. Participants will use this information to complete work sheets for producers with different production objectives. There will also be demonstrations and updates on breeding soundness examinations with discussions on how the producer should use the information in a bull management program. The importance of pelvic measurements in heifers and bulls to reduce the incidence and severity of calving difficulties will be discussed.

SEMINAR 17

Marketing Veterinary Medicine: The Best Seller

Objective: The theme for this seminar is "marketing integrity." In this program the practitioner will be provided with the framework for developing the skills required to market knowledge and services.

Fee: \$100.00

Limit: 50

Level: Basic

Location: Julia Lee A & B Rooms, Allis Plaza Hotel

Date: November 16 (Thursday)

Time: 8:00 am-5:00 pm

Coordinator: Dee Griffin (405) 338-7867

Faculty: Bill Grimes, Dee Griffin

Description: Do you feel you are not getting paid for the services you provide? Many practitioners seem to have failed to successfully promote themselves, what they have to offer, and collect the financial rewards enjoyed by

many other professionals. During this seminar, a professional management consultant will team up with a practitioner to cover the reasons for our failure and help you to identify corrective measures toward self-promotion. The instructors will cover client evaluation, approach to clients, negotiating service fees, and building a client base. This seminar is a blend of practical philosophy tied to effective techniques. Follow-up with each seminar participant will be available. This seminar was presented at the 1988 AABP meeting and received very good evaluation.

SEMINAR 18

People and Personnel Management: Interacting with Clients and Staff

Objective: This seminar will demonstrate the art of evaluating personality traits of individuals thereby improving your ability to effectively interact with them.

Fee: \$100.00

Limit: 50

Level: Basic

Location: Bennie Moten A & B Rooms, Allis Plaza Hotel

Date: November 17 (Friday)

Time: 8:00 am-5:00 pm

Coordinator: Dee Griffin (405) 338-7867

Faculty: Bill Grimes, Dee Griffin

Description: The success of our work and programs often depends on how we interact with our clients and their employees. A professional consultant will introduce you to "personality style" evaluation. By learning and understanding your style and that of individuals you work for and with, you will identify what you should do to handle individual encounters, situations and confrontations. You will learn a system that will help you understand how people think, how to handle discipline problems, and how to regain control in difficult situations. This seminar can show you how to listen, integrate, train and coordinate for building of an efficient, cohesive team. This program received excellent evaluations at the 1988 AABP meeting.

SEMINAR 19

Spouse Program I. Love Those Antiques!

Objective: Do you want to know more about the antiques you already own or may be planning to buy? Or perhaps you would just like to know more about how to determine value in an antique. This seminar is designed to answer many of the questions you many have about antiques and antique collecting.

Fee: \$10.00

Limit: 50

Level: All

Location: Julia Lee A & B Rooms, Allis Plaza Hotel

Date: November 15 (Wednesday)

Time: 8:00 am-10:00 am

Coordinator: Susan Walters

Faculty: Susan Walters

Description: Ms. Walters loves antiques and in particular those from the Victorian era. Susan Walters has owned her own antique shop for over 20 years so it has been a long friendship. Her home for 13 years dates back to the mid-1800's and is full of treasures. She will present information on how to determine a fair cost based on purchasing factors such as the age of wooden items (drawers are an excellent place to begin) and marks on glassware. Susan will bring small items to the program

and discuss their unusual points and will tell you how to go about having antiques appraised.

SEMINAR 20

Spouse Program II. The Better We Eat; The Better We Are!

Objective: This program is presented by a registered dietitian who will provide tips on selection and preparation of foods. She will also discuss the importance of certain foods in our diet and other select dietary topics.

Fee: \$10.00

Limit: 50

Level: All

Location: Julia Lee A & B Rooms, Allis Plaza Hotel

Date: November 17 (Friday)

Time: 8:00 am-10:00 am

Coordinator: Shelly Buehler

Faculty: Shelly Buehler

Description: Today everything we eat and drink is scrutinized as to how it might benefit or harm our health. We have known since grade school the importance of selecting food from each of the food groups for a well-balanced diet. However, there is not one of us that couldn't do with some re-enforcing of those simple rules from time to time. This seminar is presented by a dietitian from one of Kansas City's top hospitals and the information shared will make us healthier, feel better about ourselves and hopefully ensure a better quality life.

SOCIAL ACTIVITIES

Have fun and enjoy yourself in Kansas City! Re-establish old acquaintances, make new ones, enjoy the camaraderie of colleagues and absorb the culture and character of our host city...these are traditions of AABP meetings. Whether a registrant or spouse, there are activities planned for you each day of the meeting.

OPENING EVENING HOSPITALITY

"Kansas City Welcome"

Tuesday, November 14

Reception and Meal - 5:00 pm-7:00 pm

Exhibit Area Bartle Hall North - Level 3

Program Committee Welcome - 7:00 pm-7:30 pm

Keynote Speaker - 7:30 pm-9:00 pm

Rooms 212 S & 212 N Bartle Hall North - Level 2

What could be nicer when arriving in a new town and a strange hotel after traveling all day than to enjoy a casual evening with old acquaintances, new friends, or just being by yourself? Everyone will be at an early evening reception where you can enjoy a cocktail, a snack, a meal, music, and friends.

Then move to Level 2 for an AABP welcome and an evening of fun and humor. Our keynote speakers have been the "hit of the meeting" for the last two years and will be again this year. Joe Griffith subscribes to the theory that laughter is the best medicine. Enjoy an evening of his contagious humor that will leave you laughing and motivated all at the same time!

JAZZ FESTIVAL AND MAGIC IN KANSAS CITY

Thursday, November 16

6:00 pm-Midnight

Count Basie Ballroom, Allis Plaza Hotel

Reception - 6:00 pm-7:00 pm

Dinner - 7:00 pm-8:30 pm

Entertainment - 8:30 pm-Midnight

A unique opportunity to join with friends to enjoy a night of Jazz and Magic. The staff of the Allis Plaza Hotel will treat you to a delightful roast sirloin of beef dinner complete with all the trimmings. The setting will recapture the famous Kansas City era of Jazz. You will be privy to the music of Sam Johnson and Company, the very best Jazz entertainment in the Midwest! Strolling through the ballroom will be a female model dressed in a 30's costume to add authenticity. To compliment the environment, "Fast Eddie," Kansas City's greatest shoeshine man will provide shines and grins. To round out the evening, you will be entertained by Mr. Steve Payton, a magician who will astound you with his illusionary feats. Come on out for fun, fellowship, dancing and entertainment at the "Jazz Festival and Magic in Kansas City."
\$30.00 per person

SPOUSE HOSPITALITY RECEPTION

Wednesday, November 15

7:30 pm-10:00 pm

Count Basie A Ball Room, Allis Plaza Hotel

While the vets are in Practice Tips and Research Summaries, the spouses are invited to the "Century of Fashion and all that Jazz" show. The roaring 20's is known for the Charleston, the flirt of a skirt and lots of drama. This era brought women the right to vote and the beginning of liberation. Women did the vanity drag, the blackbottom shag. The look was childlike, flappers with the turned up nose and saucer eyes. Men's fashion changed so that slim was in and bulk was out.

The thirties brought tough times and tough guys. Greta Garbo and jazz was hot. Count Basie formed his first band in Kansas City. The ladies wearing glass beads, sequins and rhinestones were the envy of the evening.

The forties brought WWII. Romance was hot and the girls were beautiful. Rosie the Riveter was a swinger and the war took the boys off the farm. Betty Grable wears a red and white checkered suit. Women were signifying their willingness and ability to help bear the burden of the world with their shoulderpads. Frills were unacceptable.

This is undoubtedly the best show ever produced for the Spouse Hospitality Reception. You'll have time to visit, make new friends and enjoy refreshments. Plan to attend this outstanding event.

No Charge

The show is courtesy of Ceva Laboratories, Inc.

The refreshments are courtesy of Hoechst-Roussel Agri-Vet Co.

SPOUSE HOSPITALITY ROOM

A spouse hospitality room will be available from Tuesday, November 14 through Friday, November 17 and will be open from 8:00 am to 5:00 pm.

The Big Joe Turner A Room, Allis Plaza Hotel will serve as the hospitality room each day. Refreshments will be available and are the courtesy of Hoechst-Roussel Agri-Vet Company.

TOURS

TOUR 1*

Pre-Convention Tour

Tuesday, November 14

8:30 am-4:30 pm

Have you ever wondered how the pharmaceutical, biologicals and pre-mixes you use are manufactured? Here's your opportunity to see firsthand as you visit Pfizer, Inc. and Mobay Corporation, Animal Health Division, who have teamed up to provide you with an informative and educational tour. As you tour Pfizer, you'll see the manufacture of parenteral injectables and feed pre-mixes. In addition, you'll have the opportunity to see their Distribution Center, where orders are filled and shipped throughout the United States.

Your hosts at Mobay will take you through their plant where you'll

see the manufacture of biologicals and pharmaceutical drugs. At both plants, you will be impressed with the care taken to insure that you always receive consistently high quality products.

Lunch will be provided courtesy of Mobay and Pfizer. Please register as soon as possible (limited to 120 participants on a first come first served basis).

No Charge

The tour is sponsored by: Pfizer, Inc.

Mobay Corporation

**All tours picked up at the three conference hotels.*

TOUR 2

Nelson Gallery and Shopping on the Country Club Plaza

Tuesday, November 14

10:00 am-3:00 pm

Kansas City's Nelson Gallery of Art - Atkins Museum of Fine Arts is one of America's most comprehensive art museums ranking in the top ten facilities. The collection represents art of all civilizations. Not only are the works of the great masters such as El Greco, Goya, Rembrandt, Van Gogh, Picasso and Rubens on display, but the paintings of Missouri artists Thomas Hart Benton and George Caleb Bingham are also present.

The celebrated Country Club Plaza, the nation's oldest shopping center, will be our next destination. The Plaza is an exhilaration of fountains, sculpture, fine stores, beautiful landscaping and tree lined boulevards. The architectural motif of Spanish origin and charm has red-tiled roofs. You'll see murals, art and sculpture from all over the world. Adding to the delight and attraction are many fine stores, restaurants (lunch on your own) and unique boutiques to tickle your fancy. Transportation returning to the Allis Plaza will be via the Kansas City trolley which runs every twenty minutes (about \$3.00).

\$17.00 per person

TOUR 3

Historic Kansas City and Hallmark Visitor Center

Wednesday, November 15

10:00 am-3:00 pm

Discover the beauty and history of Kansas City today with our host-ess-guide. Marvel at the story of how "Signboard Hill," long a Kansas City eyesore, was designed into a masterpiece as the lobby of the Crown Center Hotel. This 600 million dollar complex was developed by the Hallmark Card Center. Here in this area we will tour the Hallmark Visitors Center.

The Center has an extensive range of exhibits beginning with a memorial to Mr. Hall, the founder. Featured is the collection of art objects and correspondence from prominent figures such as Norman Rockwell and Winston Churchill. A complete display of Presidential Christmas cards is highlighted in one area. Also featured is the Hall of Fame television series using film clips, costumes, props, autographs and awards. The Hallmark Center is designed to be entertaining and informative to all.

Continuing the Kansas City tour, you will view the impressive Liberty Memorial, a tribute to the World War I soldiers. We'll enter the site of Old Westport, a unique charming area of restored shops, restaurants and galleries. As your bus enters Mission Hills with its rolling hills, inviting brooks and statuary you will see why it is one of the wealthiest residential areas in the United States. Our guide will bring your attention to the mansions of noted Kansas citizens.

After the touring, you will enjoy a specially selected and prepared luncheon. Time has been allowed for the unique setting of the Westin Crown Center (included with your ticket). The specialty shops, boutiques and fine stores will fill this pleasant afternoon before the bus returns you to your hotel.

\$29.00 per person, lunch included

TOUR 4

Truman Library/Victorian Home

Stephenson's Apple Farm

Thursday, November 16

10:00 am-3:00 pm

Harry S. Truman, our 33rd President, was known as "The Man from Independence." The Truman Library and Museum, which attracts 260,000 visitors annually, houses mementos of the 1945-53 Truman Administration. Your guide will show you such things as the large Persian rug from the Shaw of Iran, the massive dining table from the Philippine government; autographed items from Winston Churchill and other world leaders may be seen.

You will see charming residences including the Victorian Truman home and the church where the Trumans were married in 1919. Continuing on, you will journey to the impressive Vaile Mansion, the stately home designed in the second empire style and is a well preserved example of Gothic adaptation of true Victorian architecture. The house has been carefully restored to its original splendor including the fascinating murals on some of the bedroom ceilings.

Lunch will be a special occasion at Stephenson's Apple Farm Restaurant. Their nationally known menu of home-cooked food includes such items as hickory-smoked meats, apple fritters, green rice casseroles and home made rolls. All this served in the midst of antiques, country decor and friendly waitresses.

\$29.00 per person, including lunch

TOUR 5

Nelson Gallery and Shopping on the Country Club Plaza

Thursday, November 16

10:00 am-3:00 pm

Kansas City's Nelson Gallery of Art - Atkins Museum of Fine Arts is one of America's most comprehensive art museums ranking in the top ten facilities. The collection represents art of all civilizations. Not only are the works of the great masters such as El Greco, Goya, Rembrandt, Van Gogh, Picasso and Rubens on display, but the paintings of Missouri artists Thomas Hart Benton and George Caleb Bingham are also present.

The celebrated Country Club Plaza, the nation's oldest shopping center, will be our next destination. The Plaza is an exhilaration of fountains, sculpture, fine stores, beautiful landscaping and tree lined boulevards. The architectural motif of Spanish origin and charm has red-tiled roofs. You'll see murals, art and sculpture from all over the world. Adding to the delight and attraction are many fine stores, restaurants (lunch on your own) and unique boutiques to tickle your fancy. Transportation returning to the Allis Plaza will be via the Kansas City trolley which runs every twenty minutes (about \$3.00).

\$17.00 per person

TOUR 6

Nelson Gallery and Shopping on the Country Club Plaza

Friday, November 17

10:00 am-3:00 pm

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(lunch on your own) and unique boutiques to tickle your fancy. Transportation returning to the Allis Plaza will be via the Kansas City trolley which runs every twenty minutes (about \$3.00).
 \$17.00 per person

TOUR 7

Post-Convention Tour
 Saturday, November 18
 9:00 am-5:00 pm

Want to take advantage of reduced airfares by staying over Saturday, or want to just take another day to see the sights around Kansas City? Here's an opportunity you won't want to miss. You'll leave your hotel by bus and travel to Farmland Industries' research farm. You will be treated to coffee and donuts by Farmland Industries and then receive a personalized tour of their research facilities. Items of interest include feeding research on hogs, dogs, feedlot cattle and cow/calf. The highlight will be a tour of their new, state of the art, 96 stall dairy research unit. Here in-depth research is being conducted to determine how to properly feed cows receiving BST.

After lunch (included with your ticket), the bus will take you to The Agricultural Center in Bonner Springs, Kansas, probably better known as the Ag Hall of Fame. Nowhere else in America can you see and touch so many priceless relics of America's agricultural past. More than

5,000 items are on display (a bigger agricultural display than the Smithsonian's), ranging from rustic toys and tools from colonial days to huge steam engines that belched smoke and sparks to thrash grain for our grandfathers. Enjoy seeing such things as antique cars and trucks, the harness maker's shop, the miniature railroad, the largest barbed wire collection in the world, the veterinary office, the country store, antique dolls and farm machinery and countless other historical relics. The Hall is more than a great museum. It is a shrine to the millions of farm and rural people, our clients and forefathers, who built the world's greatest food producing industry.

Program Committee
Tom Fuhrmann, Chairman

- General Sessions**.....Jan Shearer
- Dairy**.....Gordon Jones
- Cow/Calf**.....David Nash
- Feedlot**.....Jim Sears
- Seminars**.....David McClary
- Practice Tips**.....Reilly Glore
- Research Summaries**.....Gatz Riddell
- Local Arrangements**.....Bob Smith
- Exhibits**.....Sam Hutchins, III
- CE Liaison**.....Larry Hutchinson
- Conference Manager**.....Harold Amstutz
- Computer Software Lab**.....Jim Ehrlich

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Exhibits Open

Tuesday, November 14
2:00 pm – 7:00 pm

Wednesday, November 15
9:00 am – 4:30 pm

Thursday, November 16
9:00 am – 4:30 pm

Kansas City Convention Center
Bartle Hall North - Level 3

**A place to meet old friends and
make new ones**

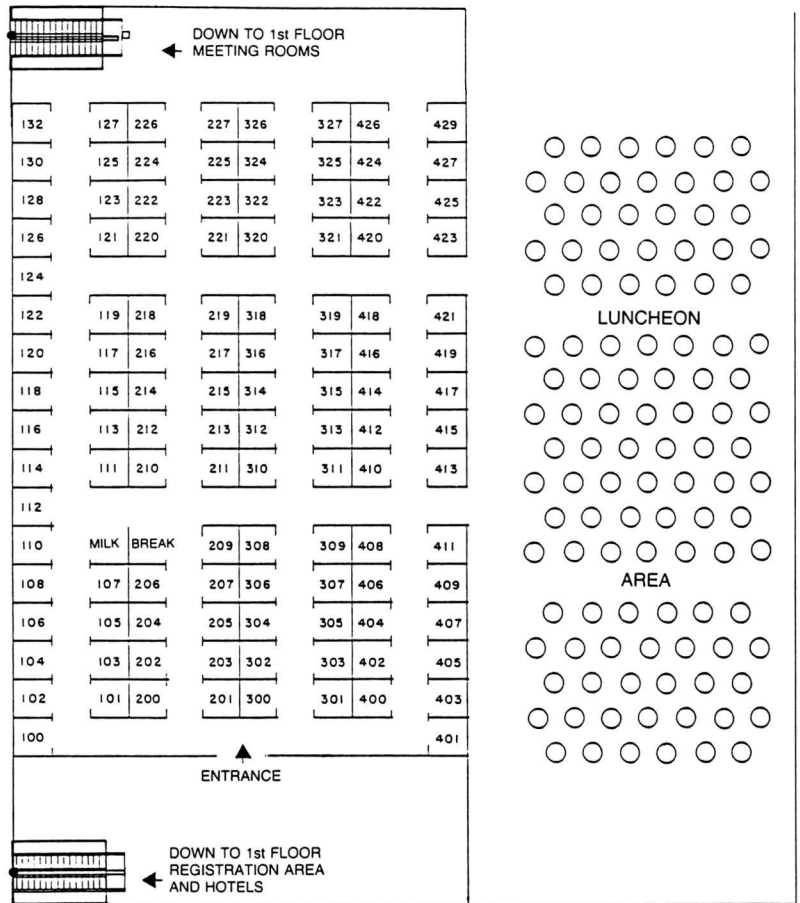
"Kansas City Welcome"

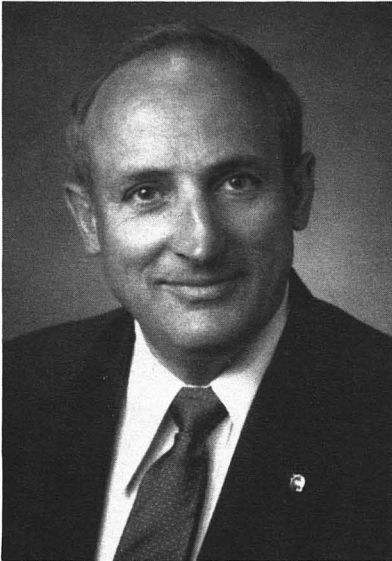
a mixer/buffet

Tuesday, November 14
5:00 – 7:00 pm

in the Exhibit Area
Bartle Hall North - Level 3

EXHIBIT FLOOR PLAN
Kansas City Convention Center, 2nd Floor
Kansas City, Missouri





1989 AABP Conference Exhibitors

EXHIBITS OPEN

The commercial and educational exhibit hall offers a modern showcase of veterinary products and services—the biggest trade show exclusively for cattle veterinarians at any meeting! Exhibits will be open 20 hours for 2 1/2 days. You will be inundated with biological, pharmaceutical and agricultural technical information throughout the day, including breaks and lunch time. Expand your educational processes and show your appreciation to the exhibitors who are an integral part of the AABP Annual Meeting.

Samuel Hutchins, 3rd, DVM
South Barre, VT
Exhibits Manager

BOVINE GIVE-A-WAY

Ten practitioners can win \$50.00 each by visiting the exhibit area. Bring business cards to deposit in milk cartons at each exhibit booth. Winners will be announced at the AARP business lunch on Friday, November 17. All veterinarians registered at the meeting are eligible.

207

Accu-Med Corporation

270 Marble Avenue, Pleasantville, New York 10570

Accu-Med Corporation will display a full line of Accu-Culshure, a true anaerobic and aerobic culture swab, providing the ability for cytological as well as culture specimens with one entry. Available now in two convenient sizes for uterine, pharyngeal, nasal, tracheal, bladder or any other deep cavity culture site where specimen integrity protection is required.

205

Agri-Sales Associates

212 Louise Avenue, Nashville, TN 37203

Agri-Sales Associates, Inc., a National Manufacturer's Representative Group, will exhibit Y-Text Insecticide and I.D. ear tags, Rubbermaid Agricultural Products and Allied Precision Industries, UL approved livestock tank heaters.

413, 415

Albion Laboratories, Inc.

101 N. Main, Box 750, Clearfield, Utah 84015

Featuring "Metal Amino Acid Chelated Minerals," in formulas for Breeders, Starters, Growers, such as Breeder Pac, C²MZ, S.O.D. soluble powder, IMZ and Replamin Liquid.

310, 312

Alfa-Laval Agri, Inc.

11100 N. Congress Avenue, Kansas City, MO 64153

De Laval — the world's largest dairy supplier is right next door.

323

All-Care Products, Inc.

P.O. Box 5857, Greenville, SC 29606

All-Care Products, Inc. has become the importer of the "Sterimatic Syringe System" for the western hemisphere. The booth will exhibit the Sterimatic line and set up veterinary practitioners as dealers.

426

American Breeders Service

6908 River Road, Box 459, DeForest, WI 53532

In expanding its range of products supplied to dairymen, American Breeders Service is marketing a line of mastitis control products. Udder care products include UDDERgold, silverQUICK, and 4xLA. We will also demonstrate milk progesterone test, and provide breeders with sire directories from beef and dairy bulls.

420, 422

American Cyanamid Company

One Cyanamid Plaza, Wayne, NJ 07470

American Cyanamid will be displaying its health products—TRAMISOL® Brand Dewormer, WARBEX® Pour-On, VIGILANTE® Insecticide, AUREO S 700® Medicated Premix, AUREOMYCIN® Medicated Premix and its Veterinary Merchandising Service Program — CVMS. Technical Service and sales personnel will be present.

110

AVMA Group Health & Life Insurance Trust

55 E. Jackson Blvd., 8th Floor, Chicago, IL 60604

Personnel from the Trust will be at the booth to answer any questions you may have concerning the AVMA Group Health & Life Insurance Plan for members, their dependents, and employees.

108

AVMA Professional Liability Insurance Trust
P.O. Box 74221, Chicago, IL 60690-8221

Here is the place to have your questions about malpractice and/or workers' compensation answered by representatives of the AVMA Professional Liability Insurance Trust and the broker, Mack and Parker. They will be on hand to help with potential claims or technical questions.

111, 113, 115

Babson Bros. Co.

1880 Country Farm Drive, Naperville, IL 60540

Surge dairy farm pipeline equipment and related products.

211

Beecham Laboratories

501 Fifth Street, Bristol, TN 37620

Convention participants are invited to stop by the Beecham Laboratories veterinary exhibit. Beecham is the veterinarian's source for quality biologicals and pharmaceuticals. Representatives will be on hand to introduce new products and offer additional information on currently marketed products.

417

Big Valley

P.O. Box 495, 1810 E. Hwy. 30, Lexington, Nebraska 68850

Big Valley is a nationally recognized manufacturer of cattle and horse handling equipment. Please stop and visit with our representative about your livestock equipment needs. Of particular interest would be the new Big Valley Hydraulic Squeeze Chute. Call 1-800-658-3219 for more information.

114, 116

Bio-Ceutic

A Division of Boehringer Ingelheim Animal Health, Inc.

2621 North Belt Highway, St. Joseph, MO 64506

Bio-Ceutic offers a wide variety of biologicals, pharmaceuticals and insecticides for both large and small animals. Our complete Bio-Ceutic line of products are available through our national network of distributors.

101

Bou-Matic

P.O. Box 8050, Madison, WI 53708

227, 324, 326

Bowie Manufacturing, Inc.

313 S. Hancock, Lake City, IA 51449

Step into the future NOW! Bowie introduces the "GALAXY" fiberglass mobile Veterinary clinic. "ULTIMATE ACCESSIBILITY!!" Featuring ALL NEW EXCLUSIVES—Gull Wing Doors, Aerodynamic body design, Automatic Burglar Alarm, Aqua Sensors, Convert-A-Power, and VASS Security System. See the 1990 Bowie X-Ray. Bowie sets the standard for quality. See us today!!

204, 206

The Butler Company

4041 Fisher Rd., Columbus, OH 43228

419, 421

CEVA Laboratories

7101 College Blvd., Suite 610, Overland Park, Kansas 66210

This year CEVA Laboratories will feature New Formula ERYTHRO®-200 Injectable (Erythromycin); CEVA Brand Penicillin and CEVA Brand Penicillin and Dihydrostreptomycin; and a new line of inactivated bovine vaccines. Also exhibited will be SYNCRO-MATE-B™ for controlled breeding programs; CYSTORELIN® (GNRH), an effective

treatment for cystic ovaries in bovine; and our popular line of Abbott I.V. Fluids and sets. Be sure you stop by our booth!

103

Church & Dwight Co., Inc.

469 N. Harrison St., CN 5297, Princeton, NJ 08543-5297

Church & Dwight Co., Inc., makers of ARM & HAMMER® products including MEGALAC® Rumen Bypass Fat and Feed Grade Sodium Bicarbonate, will provide product literature, technical and sales information. Computer simulation of dairy rations using MEGALAC® and sodium bicarbonate will demonstrate proper application of these products.

317

Classic Medical Supply, Inc.

815 S. US Hwy. 1, Suite 4409, Jupiter, Florida 33477

Classic Medical supplies diagnostic ultrasound systems for early pregnancy diagnosis, back fat and rib-eye evaluations. For further information call us at (800) 722-6838.

401, 403

Coopers Animal Health, Inc.

P.O. Box 419167, Kansas City, MO 64141

Coopers will be exhibiting our new vaccines and insecticides for cattle. Ask us about our new 7-Way plus haemophilus vaccine, Electroid 7 + HS. Also be sure to check out the latest in insecticide ear tags. We'll be featuring Tomahawk Tags, the different organophosphate tag, plus the ideal tag to rotate to—Saber. Saber tags are the only pyrethroid tags that kill horn flies and resistant horn flies and face flies. Check with Coopers for the newest cattle products.

214, 216

Diamond Scientific

2538 S.E. 43rd St., Des Moines, IA 50317

Diamond Scientific will exhibit their complete line of Large Animal Biologicals, "The Horizon Line" and the TGE line of vaccines. We will also be exhibiting Covenant, the 1st Whole Viron FeLV Vaccine. Pharmaceuticals include the Advantage System of Equine Nutritionals. DiaPROOF Foal; DiaPROOF with the power of Mucolin. Newly introduced Balance, a calcium and mineral supplement, also with the power of Mucolin. Also being displayed is Fresh, the first ear cleanser with a fresh scent and a topical anesthetic.

112

Eidson Associates

P.O. Box 16204, St. Louis Park, MN 55416

203

Elanco Products Company

Lilly Corporate Center, Indianapolis, IN 46285

The Elanco exhibit will provide valuable information on Tylan Injection—Compudose—and Rumensin. In addition, Ovasure—the qualitative and quantitative Progesterone tests—will be displayed.

404

Encyclopaedia Britannica, U.S.A.

310 S. Michigan Ave., Chicago, IL 60604

The new Encyclopaedia Britannica, great books of the Western World and Compton's Encyclopedia; plus a complete line of educational accessories.

429

For-Most, Inc.

P.O. Box 322, Hawarden, IA 51023

FOR-MOST can supply you with a full line of heavy duty livestock

handling equipment: Headgates, Squeeze Chutes, Tip-Chute, Crowding Tub and Adjustable Alley Ways, Portable Corral and Alley Panels, Hog Catcher, also livestock scales. The foremost in livestock handling equipment since 1962.

200

Fort Dodge Laboratories

800 5th Street N.W., Fort Dodge, IA 50501

Fort Dodge Laboratories invites you to stop by our booth for up-to-date information on both Triangle®4, the first federally licensed all-killed BRSV combination vaccine and Septimune™ PH-K, effective protection against pasteurilla - pneumonia caused by *Pasteurella haemolytica*. Also ask about our new Trichomonas Foetus Vaccine, the only vaccine available to combat Trichomoniasis in cattle.

215

Glenwood, Inc.

83 N. Summit Street, Tenaftly, NJ 07670

Glenwood, Inc. will exhibit the INTRAMUSCULAR Calcium/Phosphorus product Calphosan® Suspension. This time tested product is used as an aid in the treatment of milk fever in cattle.

221, 223

Grand Laboratories, Inc.

RR 3, Box 36, Freeman, SD 57029

Stop by our booth to see our latest vaccine innovations, including Vib Shield® Plus, a one-dose *Campylocacter fetus* bacterin with a 12 month duration of immunity, and Vira Shield® 5, our killed IBR, BVD (cytopathic and non cytopathic), PI3, BRSV Vaccine in our unique Xtend™ III adjuvant.

320

Hoffman-La Roche, Inc.

Animal Health and Nutrition

340 Kingsland St., Nutley, NJ 07110

400, 402

Hoechst-Roussel Agri-Vet Co.

Route 202-206, Somerville, NJ 08876-1258

Hoechst's research expenses are over \$750 million per year. An important part of the research conducted by Hoechst Canada Inc. and Hoechst-Roussel Agri-Vet Company is dedicated to the development of new and improved pharmaceutical and biological products to meet the demands of the growing animal health care market. Hoechst products include: Panacur, Lasix, Regu-mate, Borgal, Boroform, and Cocci Bol-o-Tabs.

416

Ideal Instruments

620 Leshar Place, Lansing, MI 48912

Products from Ideal Instruments complete line of veterinary instruments will be displayed. Injecto-Stik®, a revolutionary new multiple injection syringe will be featured. Also being featured are Electrojac semen collection instrument, disposable syringes and needles, OB and handling equipment.

412

IDEXX Corporation

100 Fore Street, Portland, ME 04101

IDEXX Corp., an international biodection company offering a wide variety of diagnostic products, will feature its PROBE line of dairy tests at the AABP Conference. These tests combine ELISA technology with the IDEXX-developed PROBE technology. Tests are fast, accurate, and easy to use—and can be run cowside.

315

IMMVAC, Incorporated

Rt. 1, 6080 Bass Lane, Columbia, MO 65201

IMMVAC, Inc. introduces ENDOVAC-Bovi™, a new vaccine for the control of Gram negative endotoxemia in cattle. A genetically engineered mutant bacterium provides protection against virtually all Gram negative endotoxins. Among the most devastating are *Escherishia coli* and *Klebsella*, major causes of mastitis and Pasteurella, involved in shipping fever. Developers will be present.

319

Innovative Business Systems (IBS)

710 Williams Way, Richardson, TX 75080

Veterinary Management Systems (VMS) by IBS is a complete and comprehensive software package which provides the veterinary clinic with a completely automated office management system. VMS can make the difference in your practice because it provides you with real solutions from a complete financial-management and analysis system.

118

Intermountain Veterinary Supply

6666 Stapleton Drive South, Denver, CO 80216-0766

Intermountain is an ethical distributor serving the western United States.

201

Jorgensen Laboratories, Inc.

2198 W. 15th St., Loveland, CO 80538

We will be exhibiting our complete line of OB instruments, including the Hercules zig zag calf puller, embryo transfer catheters and Danish line of rubberized OB apparel. Don't miss our slide tape presentation of the new Grymer/Sterner Toggle suture method for repair of left displaced abomasum.

102, 104

Kamar Marketing Group

7525 Mitchell Road, Eden Prairie, MN 55344

Kamar proudly introduces the Accufirm Progesterone Test Kit that measures progesterone in four simple steps and less than four minutes time. Stop by to see and learn about the ImmuCell Rapid Mastitis Test and Rapid Johnes Test . . . A whole new world of rapid diagnostics for the bovine practitioner . . . today!

410

Kane Enterprises, Inc.

P.O. Box 360, Sioux Falls, SD 57101

Displaying AG-TEK Veterinary Specialty Products—including the new Extra Large AG-TEK MaxiBoot®.

127

Langford Laboratories Inc.

5430 East 60th Street, Kansas City, MO 64130

LANGFORD INC., a major Canadian animal health company specializing in vaccine development, through its U.S. affiliate, LANGFORD LABORATORIES INC., introduces PRESPONSE™, the first leukotoxin-rich subunit vaccine, as an aid in the prevention of *Pasteurella haemolytica* pneumonia. Representatives will be waiting to answer your questions concerning PRESPONSE™ and the Shipping Fever Complex.

405

Large Animal Veterinarian

122 S. Wesley Ave., Mount Morris, IL 61054

LARGE ANIMAL VETERINARIAN is published bimonthly, directing its message to large animal veterinarians, providing a concise, quick-to-

read format covering preventive medicine, nutrition, animal environment, genetics, production management, new technology and regulatory impact.

305

The Magrath Company
404 West B St., McCook, NE 69001

The Magrath Stock Shock, Fluidfeeders, Temperature Probe, and 10 ml. Continuous Flow Syringe and many other products will be on display at our booth, along with a new product: Magrath Oral Hook Adaptor—the new approach for administering pastes and gels orally, gives the "hands off" approach with ease and convenience.

306

Merritt Veterinary Supply

21 Cuttino Road, P.O. Box 188, Sumter, SC 29151-0188

Merritt Veterinary Supply is a full service distributor located in Sumter, SC. We have been proudly serving veterinarians for over 50 years. At Merritt we enjoy our relationship with food animal practitioners and work hard to have the items you need, when you need them. Come meet us today!

209

Mobay Corporation
Animal Health Division (Haver)

P.O. Box 390, Shawnee, Kansas 66201

Haver will display their complete line of Biologicals and Insecticides and Pharmaceuticals for Bovine Practitioners. In addition to featuring the innovative analogue, ESTRUMATE (cloprostenol) now available for your client's beef, dairy herds, and feedlot heifers we will feature Spotton, Tiguvon Pour On and Hava Span.

105, 107

MSD AGVET (Division of Merck & Co., Inc.)

485 Rt. 1 South-Parkway Towers-WBF-445, Iselin, NJ 08830

The MSD AGVET (Division of Merck & Co., Inc.) booth will feature our line of ivermectin products; specifically Ivomec® 1% Cattle Injection; Ivomec® Swine, available in 1% or .27% injectable concentrations; Eqvalan®; and Heartgard 30. We will also display and be eager to discuss Curatrem® for liver fluke control, Corid® for preventing or treating Coccidiosis, and TBZ®.

220

Munks Livestock Sling Mfg., Inc.

1143 W. March Pt. Rd., Anacortes, WA 98221

An effective new aid to rehabilitate down, injured or post surgical livestock of all sizes. The slings are adjustable, lightweight, durable and easy to use. Invented and manufactured by farmers and continually used and improved by veterinarians worldwide. See our complete line of slings, low lifts, hobbles, neck straps and more.

119

Nasco

901 Janesville Avenue, Fort Atkinson, WI 53538

Nasco supplies a large selection via catalog of tools and equipment from two locations, Fort Atkinson, Wisconsin, and Modesto, California. The 1990 catalog will be available to those who stop at the booth. The catalog includes thousands of products used by veterinarians, farmers, and ranchers. Included are livestock identification items, products for poultry, sheep, dairy, beef, and hog productions. The catalog features artificial insemination supplies, veterinarian hand tools, and much more.

406

N. J. Phillips USA, Inc.

8176 Nieman Road, Lenexa, KS 66214

N. J. Phillips USA, Inc. represents the world's leading manufacturer of

cattle dosing instruments. Whether for vaccines, pour-ons, drenchers or implants these Australian made products are renowned for their quality and reliability. The company will display its livestock dosing equipment, offer help for old problems and discuss new ideas.

300, 302

Norden Laboratories

P.O. Box 80809, Lincoln, NE 68501

Norden Laboratories has been in partnership with veterinarians since our founding by a Lincoln, Nebraska practitioner 70 years ago. We have achieved industry leadership in control of bovine diseases through development of innovative products like "Vibrin" (the first bovine vibriosis vaccine), "BRSV" (the first bovine respiratory syncytial virus vaccine), and "ScourGuard" (the first vaccine for control of viral and bacterial cattle scours). Please stop by the Norden exhibit to talk about our new vaccines which build on this proven tradition: "StayBred VL5," "CattleMaster," and "ScourGuard 3(K)/C."

408

OSBORN

7101 College Blvd., Suite 610, Overland Park, KS 66210

You are invited to visit the OSBORN booth and discuss the benefits of SUSTAIN III™ Calf and Cattle Boluses for your practice. Also, the new ELPK G™ Electrolyte Powder.

308

Pfizer Inc. — U.S. Animal Health Operations

235 East 42nd Street, New York, NY 10017

Pfizer offers a complete line of antibiotic and anthelmintic products. Stop by the Pfizer booth for the latest information on Nematel® (morantel tartrate) bolus, the no-milk-discard anthelmintic for cattle, Liquamycin® LA-200®, long-acting antibiotic therapy for pneumonia and pinkeye, and Terramycin-343™ Soluble Powder, a new high-concentrate antibiotic for cattle.

311

Pioneer Hi-Bred International, Inc.

Microbial Genetics Division

7250 NW 62nd Ave., P.O. Box 258, Johnston, IA 50131

316, 318

Pitman-Moore, Inc.

421 East Hawley St., Mundelein, IL 60060

Pitman-Moore invites you to visit our booth to discuss your bovine product needs. We are pleased to have the opportunity to exhibit the following products in our bovine line at your meeting: TOTALON®, topical Cattle Anthelmintic; RALGRO®, the market leader in Cattle Implants; and our family of LEVASOLE® Cattle Dewormer.

423, 425

Porta-Vet

110 Wood St., Box 598, Hudson, IA 50643

PORTA-VET will be demonstrating a new 8' mobile unit specifically designed for the Bovine Practitioner. The unit is an all-new molded fiberglass design that will fit the new Chevrolet as well as Ford or Dodge pick up. Stop by for quotations on updating.

226

PRN Pharmacal, Inc.

5830 McAllister Ave., Pensacola, FL 32504

PRN will feature our complete line of veterinary products. Ask about our new COLIFE INJECTION, a cooper-cobalt complex injection. We also feature I O Dine boluses. Visit our booth to see WIMCO'S complete line of large animal instruments.

304

Professionals' Software, Inc.

1310 N. Keller Dr., Route 32 N., Effingham, IL 62401

PSI is a software company serving the veterinary profession and has been designated as an Industry Remarketer by IBM. We supply the veterinarian with a total system that will enable you to better manage and market your practice. The Veterinary Practice Manager software program operates in either a single-user or multi-user environment and is continually enhanced by PSI's research and development team.

Protein Technology, Inc.

1221 Nicollet Mall, Suite #230, Minneapolis, MN 55403

219

Pro Vet of Loves Park/Seattle

P.O. Box 2286, Loves Park, IL 61131

We are a full line distributor with over 8,000 products available. We will feature new equipment, pharmaceuticals and biologicals.

126

Rhone-Poulenc Animal Nutrition

Suite 620, 500 Northridge Road, Atlanta, GA 30350

Deccox brand of Decoquinat prevents coccidiosis, the third most prevalent cattle health program today. By stopping coccidiosis early, cattle go on feed faster, have better feed conversions and improved health. By starting cattle on a Deccox program you can prevent an outbreak in the first critical days in the feedlot.

418

W.B. Saunders Company

Curtis Ctr., Independence Square West, Philadelphia, PA 19106

Our collection of veterinary medicine reference textbooks are dedicated to dissemination of up-to-date information on topics of current interest to bovine practitioners. Each book focuses on a specific theme or subject to provide the latest information available. Be sure to drop by and review the latest clinical procedural techniques provided through the latest reference material.

327

Schering Animal Health

P.O. Box 529, Kenilworth, NJ 07033

Schering Animal Health is excited to be a part of the 1989 Bovine Practitioners Meeting. We look forward to showing you Schering's most innovative product yet, DURA SE-120. Also, we will be featuring our unique line of PILIGUARD biologicals, SCOURLYTE and GENECOL 99.

100

Solvay Animal Health, Inc.

2000 Rockford Road, Charles City, IA 50616

Watch for the Solvay Animal Health, Inc. display where we will feature our pharmaceutical line and the products "ReCovr" and "Follutein," along with injectable antibiotics, and our instrument line.

106

Stone Manufacturing & Supply Company

1212 Kansas Avenue, Kansas City, MO 64127

Stone Manufacturing will exhibit their full line of livestock identification, handling and grooming equipment. Products will include tattoos, ear notchers, brands, dehorners, calf-pullers, O.B. equipment, cattle leads, anti-kick, ear punches, rumen magnets, horn weights, bull rings and hoof trimmers.

301, 303

Syntex Animal Health, Inc.

4800 Westown Pkwy., Suite 200, West Des Moines, IA 50265

Syntex Animal Health, Inc. will be presenting a complete line of cattle implants including Synovex®S, Synovex®H and Synovex®C, the implant specifically formulated for both steer and heifer calves, and the only implant approved for future replacement heifers. Syntex will also be presenting their line of microbial cultures including Microsyn™ microbial cultures, durable enough to withstand the heat involved in pelletizing feeds and Syntabac™ microbial cultures with formulations that fit your processing program.

122, 124

TechAmerica

P.O. Box 901350, Kansas City, MO 64190-1350

Please plan to stop by the TechAmerica booth for details on the family of Premier® killed virus vaccines including new Premier® IBPL5. Also, representatives will be on hand to answer questions on Revive™ oral electrolyte, SulfaTech™ SR Bolus and Tylosin Injectable as well as the other fine TechAmerica products.

407

Tech Mix, Inc.

5200 West 73rd Street, Minneapolis, MN 55435

Tech Mix will be exhibiting their family of BlueLite products with primary applications for BlueLite C as it applies to young calves, and Bovine BlueLite for the ruminant animal.

217

TriLogic Systems

10201 Dennis Drive, Des Moines, IA 50322

TriLogic Systems offers the finest in Dairy formulation software to help you create the records you're tracking & the results you're treating. ProfitMaximizer Dairy Version 4.0 is unequalled for flexibility & ease of use with on-line help. This industry standard program is fully 1989 NRC compatible, or it can be easily & completely customized for you.

213

UltraFlex Co.

1609 Golden Gate Plaza, Cleveland, OH 44124

409, 411

The Upjohn Company

7000 Portage, 9510-190-47, Kalamazoo, MI 49001

Welcome to the 1989 American Association of Bovine Practitioners Conference. Our representatives are on hand to discuss with you the new products and practice building ideas using Upjohn Veterinary Products. Detailed information on these products is also available for your use. We look forward to seeing you.

210, 212

Veterinary Concepts®, Inc.

P.O. Box 39, Spring Valley, WI 54767

Veterinary Concepts®, Inc., a leader in disposable and specialty items for the practicing veterinarian, will feature syringes, catheters, containers, embryo transfer equipment and supplies, swabs, disposable speculums, disposable scalpels, and our new disposable surgical drapes.

222

Veterinary Laboratories, Inc.

12340 Sante Fe Trail Dr., Lenexa, KS 66215

Veterinary Laboratories, Inc. is a broad line manufacturer of Veterinary pharmaceutical products. It supplies over 100 different products to the animal health industry including pharmaceutical preparation, nutritional supplements and controlled drug substances such as Sodium Pentobarbitol and Euthanasia products. Many of these products will be on display at the company booth.

202

Veterinary Learning Systems

2936 Brunswick Pike, Lawrenceville, NJ 08648

Veterinary Learning Systems publishes *The Compendium on Continuing Education for the Practicing Veterinarian*, *Equine Veterinary Journal* North American Edition, and *Veterinary Technician*—all respected journals offering important, practical review articles for veterinarians and staff. Optional continuing education programs are available with *The Compendium* and *Veterinary Technician*. VLS also produces *Video Forum*, a quarterly, multitopic videotape, as well as custom educational video programs. VLS is publisher of numerous books, symposium proceedings, newsletters, and other custom publications specifically for the veterinary community.

321

Veterinary Medicine Publishing Co.

9073 Lenexa Drive, Lenexa, KS 66215

VMPCI offers total communication services to the veterinary profession. These services include two leading monthly journals, *Veterinary Medicine* and *Veterinary Economics*, specialized books, and the Professional Education Group. Please visit our booth to discuss your communication and information needs with our editors and staff members.

218

Veterinary Practice Publishing

P.O. Box 4457, Santa Barbara, CA 93140

Copies of *Agri-Practice* and *Equine Practice* will be available for inspection. Dr. Schalm's *Manual of Bovine Hematology*, as well as "Guide to Age Determination of Cattle" will also be on display.

414

Vulcon Technologies

718 Main, Grandview, MO 64030

Vulcon Technologies will be exhibiting our Mobilespin Model 126 and Model 1156 for performing blood sample separations in the field or office. We will also be exhibiting our Model HCT 1224 for determining Hematocrit in the field or in the office. Please stop by and speak with us!

307, 309

West Agro, Inc.

11100 N. Congress, Kansas City, MO 64153

Booth 1—West Agro's exhibit will highlight use of the B.E.S.T. Test.

B.E.S.T. is the ideal milk progesterone test for both veterinarians and dairymen. The unique latex agglutination format allows easy to interpret results to be available in two minutes. No color changes to interpret, no rinsing involved.

Booth 2—West Agro's line of udder health products will be displayed. Additionally, a poster presentation dealing with the subject of teat dip residues will be exhibited.

313

Western Veterinary Supply, Inc.

P.O. Box 82656, Oklahoma City, OK 73148

Western Veterinary Supply, Inc. is a full line Veterinary Distributor for you, the Bovine Practitioner. We have distribution branches in Nebraska, Kansas, Oklahoma, and Amarillo and Austin, Texas to serve you. Please come by the booth to see what products and manufacturers Western has to offer.

121

Wysong Medical Corporation

1880 North Eastman, Midland, MI 48640

Wysong Medical Corporation will display a range of products from both their medical and nutritional divisions. Medical products include surgical instruments, calf pullers and a variety of other innovations. Bovine nutritional products include First Milk Powder, First Milk Bolus, Professional Milk Formula, Professional Calf Starter, Professional Calf Grower, Bovine Total, Bovine Chelamin, Bovine Biotic and Bovine Biogel. Also to be displayed will be a wide array of products from each of their other divisions.

Non Exhibiting Company

CODON

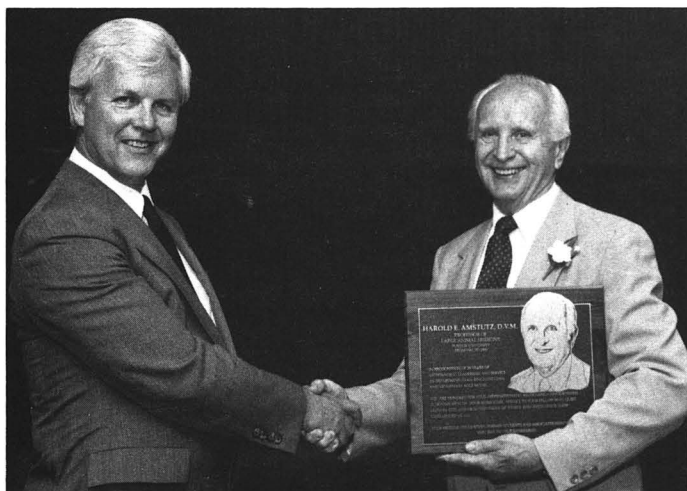
213 East Grand Ave., South San Francisco, CA 94080

Educational Exhibit

American Board of Veterinary Practitioners

9240 Highway 51 N., South Haven, MO 38671

Dr. Amstutz Retires from Purdue University



Dean Hugh Lewis presenting Dr. Amstutz with a plaque of appreciation.

Dr. Harold E. Amstutz retired from Purdue University on June 30, 1989 where he had served on the faculty since 1961. A native of Ohio, he received the DVM degree from the Ohio State University in 1945, where he was Head of the Department of Veterinary Medicine before moving to Purdue University.

Dr. Amstutz has been Secretary-Treasurer of the AABP for over 20 years (see page xxiii). From 1972–1984 he served as President of the World Association for Buiatrics and is currently Honorary President. He was chairman of the organizing committee for the American College of Veterinary Internal Medicine and its first president. He was professor and Head of Department of Large Animal Medicine when he retired.

Dr. Amstutz was honored with a reception at the college and a banquet in Covington, Indiana.

Kansas City: The Heart of America



The opening of the West by explorers and by pioneer wagon trains led to the development of Kansas City.

As early as 1804, exploration groups headed by Lewis and Clark began to filter through the area, followed by Zebulon Pike in 1806 and Stephen Long in 1819.

However, it was in 1821, the year Missouri entered the Union, that Francois Chouteau came from St. Louis to establish a trading post to take advantage of the growing fur trade with the Kansa, Osage, Wyandotte and other tribes.

In 1826, when a period of Indian removal was coming to an end, Jackson County was chartered and Independence was founded as the county seat. Independence prospered on the Santa Fe trade and Indian annuities.

The frontier was pushed some thirteen miles farther west in 1833 when an enterprising young man named John Calvin McCoy established his post and supply station in Westport. Travelers bound for California, Oregon and Santa Fe could outfit their wagon trains west of the Blue River and thus eliminate a difficult crossing.

The steamboat landing, which was at a natural levee near what is now the foot of Grand Avenue, was purchased in 1858 by the Kansas Town Company, led by McCoy. The warehouses, stores and saloons that sprang up on this landing soon eclipsed the neighboring town of West-

port that had justified their existence.

Both Westport and the City of Kansas thrived in the 1850's despite the ominous rumblings of border warfare. The spread of the Civil War cut off the Santa Fe trade for both cities, and growth suffered a setback.

However, in 1865 the Missouri-Pacific Railroad reached here, and thanks to a united and determined citizenry, Kansas City managed to span the Missouri River with the Hannibal Bridge in 1869. Kansas City could now ship goods both east and west, and by 1870, had turned its back on the river. A major boom came from livestock trade to packing centers. A measure of the town's vitality is to be found in the growth of its population, which between 1865 and 1870 surged from 6,000 to 30,000.

The 1890's saw continued expansion and development of the city's parks and boulevards system, spurring quality residential neighborhoods along their paths. The turn of the century saw the beginning of present day Kansas City's diversified business, manufacturing, and residential districts.

Kansas City is the "Heart of America," centrally located on the banks of the Kansas and Missouri Rivers. It is 250 miles west of the population center and 250 miles east of the geographic center of the continental United States. The metropolitan area consists of seven counties, Jackson, Platte, Clay, Cass and Ray in Missouri and Johnson and Wyandotte in Kansas. Approximately 1.4 million people live in the Kansas City area which is classified as the 26th largest city in the nation.

Kansas City ranks number one nationally in the diversified industries of Farm Equipment Distribution, Foreign Trade Zone Space, Hard Winter Wheat Marketing, Frozen Food Storage and Distribution, Greeting Card Publication, Underground Storage Space and Manufac-

turing of Instrument Landing Systems. It ranks second in Grain Elevator Capacity, Wheat Flour Production and as a rail center and third nationally in Automobile and Truck Production and feeder cattle market.

As an education center, the Kansas City metropolitan area has ten colleges and universities offering undergraduate and graduate degrees, seven community colleges, three medical and five theological colleges. There are also many technical and industrial schools.

Kansas City is the home of: the Harry S. Truman Library, one of six presidential libraries in the nation; the Midwest Research Institute, which provides research and development services to government and to local and national industry; Linda Hall Library of Technology, one of the largest privately endowed scientific and technical reference libraries in the country, and internationally acclaimed People-to-People program and over 90 national and international associations.

More than 1,060 churches represent over 68 religious denominations. It is the international headquarters for the Reorganized Church of the Latter Day Saints and Unity School for Christianity. Baptist, Methodist, Catholic and Nazarene seminaries are also located here.

Transportation into and around the city is easy with a network of interstate highways. Once you arrive, the Metro, Kansas City Area Transportation Authority's public bus system, is on hand to transport you anywhere within the seven county area for a minimum fare of 60 cents.

Kansas City has a modified continental climate with a mean annual temperature of 54.4 degrees Fahrenheit. Spring (March-May) brings periods of frequent fluctuations in the weather, with the fluctuations generally less frequent as spring progresses. The summer season (June-August) is characterized by warm days and mild nights with moderate to high humidities. The average high temperature in July is 79.5 degrees Fahrenheit. Fall (September-November) is normally mild and usually includes a period near the middle of the season characterized by mild sunny days and cool nights. Winter (December-February) is not severely cold, but a possibility of snow occurs between December and late March. The average low temperature in January is 20.7 degrees Fahrenheit.

Several diversified national manufactures have their headquarters in Kansas City. These include Hallmark Cards, Unitog, Farmland Industries, Chemagro, Cook Paint, Peterson Manufacturing, Tension Envelope, and Marion Laboratories.

Hallmark Visitors Center

The Hallmark Visitors Center is Hallmark Cards latest contribution to Kansas City and serves as a showcase to present a colorful overview of



Bartle Hall. Kansas City Convention Center

the Company's history and its newest innovations.

In 1910, 18-year-old Joyce C. Hall came to Kansas City with a box of postcards and a dream to succeed. J.C. Hall achieved his goal and founded Hallmark Cards Inc., the largest greeting card manufacturer in the world. The Hallmark tradition for quality creatively depicted in the Visitors Center, has lasted over 75 years.

Kansas City Jazz

That Kansas City jazz! Aside from steaks, this heartland city is on the right note with being famous for jazz. The evidence:

The Mutual Musicians Foundation, a hot pink bungalow at 18th and Highland, has been named a National Historic Landmark. Still the scene of weekend jam sessions, the modest frame building was acquired in 1928 by the Black Musicians Union Local 627. The landmark award, bestowed in 1981, is the nation's highest award for historic or architectural significance.

A 13-member jazz commission has been created by Mayor Richard Berkley. Headed by former Kansas citizen, Count Basie, until the legendary jazz pianist's death in 1984, the commission works to preserve and promote the distinctive Kansas City jazz style. For jazz enthusiasts, a jazz hotline number is available by calling 931-2888.

Kemper Arena

The versatility of Kemper Arena has made it a major sports area, a facility for concerts and special events and the home of such prestigious conventions as the 1976 Republican Convention.

Located just minutes from downtown, Kemper Arena provides unobstructed viewing for up to 17,600 people. Kemper is the home of the Major Indoor Soccer League's Kansas City Comets.

Special shows, exhibits and concerts held at Kemper have attracted such headliners as Elton John, Paul McCartney and Wings, The Rolling Stones and the late Elvis Presley. Annual events held at Kemper include Kansas City's famed American Royal Livestock and Horse Show and Rodeo, the Big 8 and National Association of Intercollegiate Athletic post-season Basketball Tournaments, the Harlem Globetrotters, Disney on Ice, and the Ringling Brothers Circus.

Kemper's unusual structure has won award recognition for architectural design. Its circular, pillarless structure provides unobstructed viewing from all locations. Whatever the event, fans are never far from the action. Distances from the court range from only 150 feet along the side of the playing area to 200 feet when seated at the goal ends.



J.C. Nichols Fountain on the Country Club Plaza

Information and photo's courtesy of the Convention and Visitors Bureau of Greater Kansas City.

AABP Officers



President
Keith E. Sterner
D.V.M.
Ionia, Michigan

Dr. Keith E. Sterner, Ionia, Michigan, is the current President. He represented District IV for two terms on the AABP Board of Directors.

Dr. Sterner received the B.S. and D.V.M. degrees from Michigan State University in 1969. He spent two years active duty in the U.S. Army—one year in Seattle, Washington and one year in Pusan, Korea. He followed up with six months travel overseas when he met his wife, Lynn, a native of the U.S., who was teaching school in

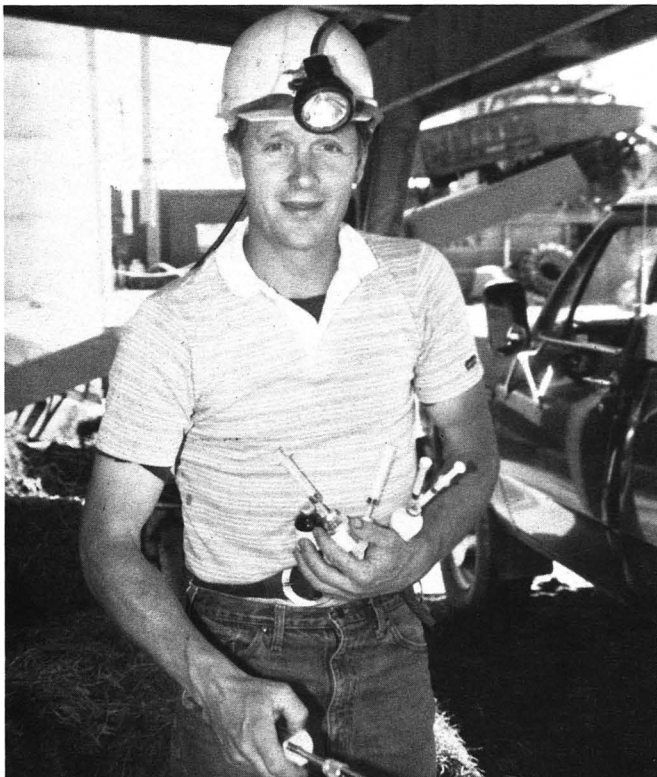
West Germany.

Dr. Sterner returned to Ionia to join his father, Dr. Edward Sterner and his associates in 1972. He is now a co-owner of the 7 person practice of 65% large animal and 35% small animal work.

Dr. Sterner is a member of the Board of Directors of the National Mastitis Council, liaison person for the Michigan State University College of Veterinary Medicine and the Michigan VMA, past member of MSU College of Veterinary Medicine Alumni Council; advisor, food animal section for Compendium; serves on the Michigan State Veterinarian's advisory board and the Ionia County Cooperative Extension Service Agricultural Advisory Board; member Western Michigan VMA, Michigan VMA and AVMA and the Ionia First Presbyterian Church.

Dr. Sterner was the Seminar Chairman for the 1987 AABP Convention and Program Chairman for last year's convention in Calgary.

Dr. and Mrs. Sterner have three children: Kimberly 12, Travis 10, and Kristin, 7 years old. He enjoys bicycling, photography, gardening and skiing.



Dr. Sterner in the field



Dr. and Mrs. Sterner, Kimberly, Travis, and Kristin

A Message from the President

Fellow members of AABP: 1989 has truly been a year of transition for our organization—AABP has moved to assure a stable and vital organization.

The hiring of Dr. Harold Amstutz as Executive Vice President and Dr. Roland Jeans as Treasurer by the Board at our summer meeting represents a significant organizational improvement. AABP is continually working to build on past success to better meet the continuing education needs of our membership. You will notice some differences in this year's program and it isn't just the cover of our program booklet. AABP has received a number of corporate grants to underwrite the costs of various sessions. These funds have been made available without stipulation and have helped us to contain meeting costs. We have purchased new computer desktop publishing software and hardware for our peripatetic editor, Eric Williams. Not only will this new equipment save us money in the very near future, but it will open the possibility of some additional editions of *The Bovine Journal*. We are now in the process of trying to assess the best means of establishing an AABP computer bulletin board, now possible in tandem with our AABP office. And finally, we are recommending a dues increase of \$15 annually to reconcile a declining organizational fund balance against the dynamic needs of an expanding organization. Although no one likes a dues increase, we are committed to remain simply the BEST continuing education membership bargain in organized veterinary medicine.

Shifting focus from within the organization, we have committed ourselves to three recurrent issues: food safety, animal welfare, and the development of more graduates with food animal interests.

Food safety encompasses such diverse areas of interests that it is impossible to cover them here; however, I will mention a few. We recognize the severe shortage of NADA label claims for effective bovine pharmaceuticals. In concert with AVMA, we have been to a number of manufacturers as well as AHI to register our concerns and are working jointly to ensure that future NADA's include label claims for bovine usage. Also, we have been to the CVM to seek methods of expanding both present and future NADA's to include bovine claims and to make the case for validated test methodologies for residue detection in the field. Signs of progress are apparent. Fortunately, there is a new spirit of cooperation between industry, the CVM and practitioners. Residues are everyone's problem and we must all work cooperatively to solve them. We are not locked in a time warp; progress is measured by change and we are in the midst of incomprehensible change in many instances. The promise of newer and better pharmaceuticals, biologicals, diagnostic tests and immune system manipulation through recombinant DNA and other techniques is at times beyond imagination. Wise and appropriate applications of these compounds and methods can greatly en-

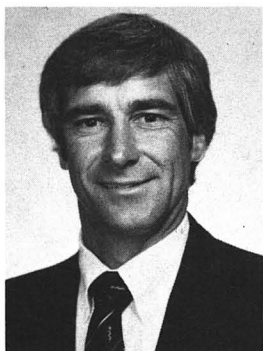
hance our ability to address consumer concerns over food safety. Concern over biotechnological advances are only in their initial rounds and it is clear from the furor over BST that there is anything but universal agreement on how, where, or even IF we should apply our newfound knowledge. Science is giving us the tools to be more productive than ever; part of our challenge will be to assure the consuming public that they are being properly employed.

Animal welfare seems to be inextricably tied to food safety concerns. Many of the activist arguments are based on residue findings alleged to be occurring because of production and husbandry techniques employed on today's farms and ranches. We are the stewards of our clients' livestock and we are vitally concerned with their welfare and well being. We all need to work at getting food animal agriculture's message to the consuming public. We are going to find ourselves devoting more and more resources to assessing the scientific basis for animal welfare. We must start working now toward both research and practical scientific procedures that are perceived as humane by the consuming public..

Finally, we must address anew the need for veterinary school graduates with an interest in food animal medicine. The problem doesn't lie exclusively in the domain of the veterinary schools. We must look to ourselves as a positive role model and resource for enlistment of new students. We must start singing a more sonorous song to the young people we can influence. We need to be telling the best and the brightest, the ones who may not only be smart, but hopefully have a work ethic as well, that we indeed belong to a noble profession with a noble calling. We need to let students of all ages see how we serve our livestock patients, our clients, and our society via our profession. We need to be role models for veterinary and pre-veterinary students in our busy practices. Yes, it costs us time and money. So what? What better investment can we make? These students are our professional future and we must invest in them if we are to expect any reasonable return. We shouldn't blame our veterinary colleges for all of our problems until we can say with candor that we have paid our own dues in proselytizing for bovine practice. The veterinary colleges are working on the problem and so must we as individuals.

It has been a privilege and a great honor to represent the BEST of all organizations in so many different capacities. We haven't solved all of our problems, and even greater ones lie ahead, but we are working on them and I am truly proud to have contributed in some small part toward their resolution. The organization will be in great hands for the foreseeable future as the new officers begin their terms of office. My personal thanks to all of you for allowing me the privilege of serving AABP as your president.

Keith E Steiner DVM



President-Elect

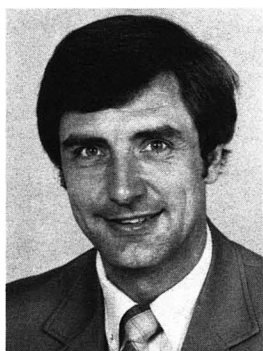
Thomas J. Fuhrmann
D.V.M.
Tempe, Arizona

Dr. Thomas J. Fuhrmann, Tempe, Arizona, is the new Vice President.

He received the B.S. degree from the University of Wisconsin in 1970 and the D.V.M. from the University of Minnesota in 1974. He is engaged in private practice in Tempe, Arizona and is the owner of Dairy Services of

Arizona—a herd health practice servicing large dairies in Arizona. He is an advisor to United Dairymen of Arizona and works with the cooperative in administering their milk quality enhancement program. Dr. Fuhrmann is a consultant to Masstock International and works with a 12,000 cow herd in the Middle East.

Dr. Fuhrmann was the continuing education liaison person for the AABP for 5 years and was actively involved in planning the highly successful 1987 AABP meeting in Phoenix, Arizona. He was the Seminar Coordinator for the 1988 Calgary meeting. Dr. Fuhrmann has served on the executive committee and Board of Directors of the National Mastitis Council; Chairman, Mastitis Committee of USAHA and is a member of AVMA and Arizona VMS. He is the program chairman for this year's meeting. Dr. Fuhrmann and his wife Joanne enjoy traveling, golf, and gardening.



Vice President

David G. McClary
D.V.M.
Atlanta, Georgia

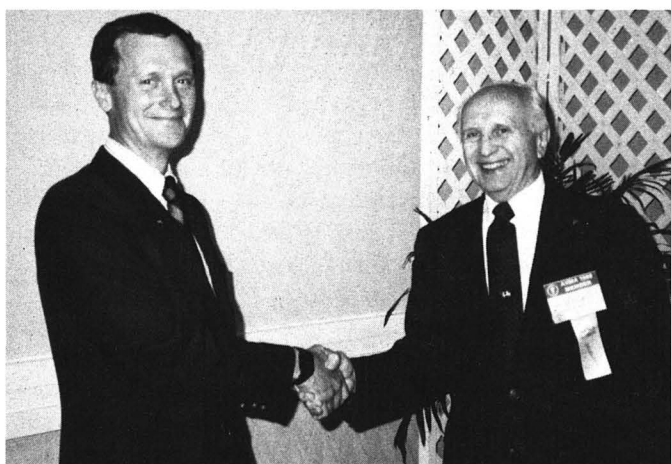
Dr. David G. McClary, Atlanta, Georgia, is the Vice President. A native of Kentucky, Dr. McClary received the B.S. degree from Western Kentucky University in 1970; the D.V.M. degree in 1974 and the M.S. degree in 1982 from Auburn University; and Diplomate, Ameri-

can College of Genealogists in 1982.

Dr. McClary was engaged in private practice in Campbellsville and Hodgenville, Kentucky for several years. He was a resident, Large Animal Clinic, Auburn University, from 1978 to 1982, and Assistant Professor, Dairy Section Head, Large Animal Clinic at Auburn University from 1982 to 1988. He left to become Research Specialist, Lilly Research Laboratories at Greenfield, Indiana in 1988. Since 1989 he has been a research scientist, Dairy Field Research, Southeastern District.

Dr. McClary represented District 3 on the AABP Board of Directors from 1983 to 1988. He is a member of the AVMA, Alabama VMA, Indiana VMA, American Dairy Science Association, National Mastitis Council, Society for Theriogenology, American College of Genealogists, and the American Association of Industrial Veterinarians.

Dr. Amstutz Named Executive Vice President



President Sterner congratulates Dr. Amstutz on his appointment.

Dr. Harold E. Amstutz, West Lafayette, Indiana, was elected Executive Vice President of the AABP at the Board of Directors meeting in Orlando, Florida on Monday evening, July 17.

Dr. Amstutz becomes the first person to hold this office, created in the revised bylaws, which state that a veterinarian be appointed to be a full-time employee and serve such terms as the Board desires. Along with many other duties, the Executive Vice President will serve as Convention Manager for the annual AABP Scientific Conference.

Dr. Amstutz has served as AABP Secretary-Treasurer for over twenty years. He recently retired from Purdue University.

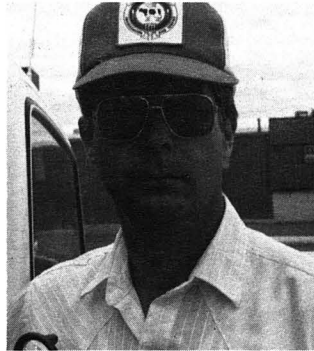
New Directors



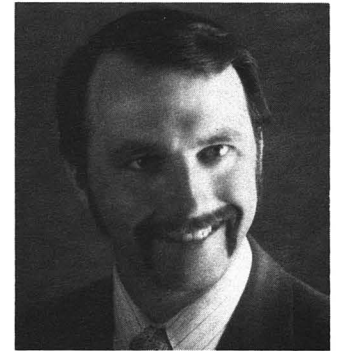
Dr. Jacob A. Hines, Oxford, Wisconsin, is the new Director for District 5. He received the D.V.M. degree from Ohio State University in 1953. Dr. Hines is the senior member of a four person predominantly dairy practice, which includes his son Dr. Steven Hines. The practice is located in Oxford, Wisconsin. He currently serves on the Wisconsin Veterinary Examining Board and is Chairman of the Animal Welfare Committee for the Wisconsin VMA. Dr. Hines and his wife Genevieve have 5 grown children who also provide "an excuse for travel to visit them in various parts of the country." Their other business interests include a bed and breakfast service and raising a herd of registered Hereford cattle.



Dr. M. Gatz Riddell, Jr., Auburn, Alabama, is the new Director for District 3. Dr. Riddell received the B.S. and D.V.M. degrees from Kansas State University in 1977. He completed an internship and residency in Theriogenology, Department of Large Animal Medicine and Surgery, Auburn University. Following one year in practice at Harrogate, TN and 2 1/2 years in Henderson, TN, he returned to Auburn in 1984 to join the Dairy Section of the Large Animal Clinic. He is a member of several professional organizations and the National Mastitis Council. He received the Norden Distinguished Teacher Award in 1986 and the Student Government Association's Outstanding Teachers Award for the College of Veterinary Medicine in 1989. He and his wife Kay have a son and a daughter.



Dr. Robert B. Corbett, El Paso, Texas, is the new Director for District 8. Dr. Corbett was raised on a beef cattle ranch in Montana and attended Washington State University from 1970 to 1978. He had his own dairy and beef herd health practice in Blackfoot, Idaho until May 1984. He moved to El Paso, Texas and owns a one-man bovine herd health practice consisting of 90% dairy and 10% beef cattle, with emphasis on mastitis, reproduction and calf management. He has approximately 15,000 dairy cows on a herd health program, one feed lot and two cow-calf operations. Dr. Corbett has been actively involved in the AABP for the past 10 years and in the Society for Theriogenology. He is also a member of the National Mastitis Council and has served on the committee for Milking Machines and Mastitis for the past five years.



Dr. Reilly P. Glore, Montesano, Washington is the new Director for District 11. Dr. Glore received the D.V.M. degree from Washington State University in 1972 when he became an associate in a mixed practice at Raymond, Washington. In 1975 he established a mobile practice in Montesano and in 1980 he built a full service large and small animal facility which was named Hospital of the Year in 1981 by Veterinary Economics Magazine. Dr. Glore is mainly engaged in bovine production veterinary medicine with a special interest in computer application. He is a member of several professional organizations and is a past president of Washington VMA at South Puget Sound VMA. Dr. Glore and his wife Lynne, who have two children, were in charge of local arrangements for the 1981 AABP Convention in Seattle.

New Treasurer



Dr. Roland S. Jeans, Evansville, Wisconsin is the new Treasurer of AABP. He was elected at the AABP Board meeting in Orlando, Florida. A dairy practitioner, Dr. Jeans served as Director for AABP District 5 for two terms.

**AABP
Advertising
Manager**



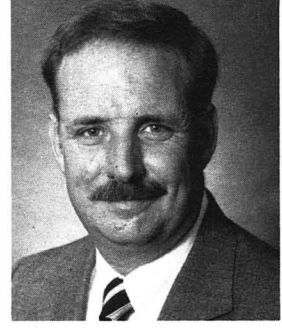
Leland C. Allenstein,
D.V.M.
Whitewater, Wisconsin

**AVMA
Delegate**



Robert H. Keith
D.V.M.
Monroe, Wisconsin

**Director
Re-Elected**



Jerome K. Harness
D.V.M.
Greencastle, Pennsylvania
Director, District 2

It is not too early!

PLAN NOW

To Attend the

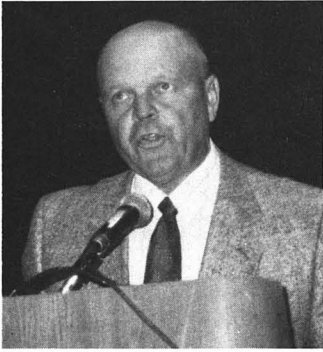
Twenty Third Annual Convention

American Association of Bovine Practitioners

Indianapolis

September 13 - 16, 1990

AABP Members in the News



Dr. Samuel E. Strahm, Pawhuska, Oklahoma was installed the 111th President of the AVMA at the Annual Convention in Orlando, Florida on Tuesday morning, July 18, 1989. Dr. Strahm is a large animal practitioner. He has represented Oklahoma in the AVMA House of Delegates for many years.



Dr. Leland C. Allenstein, Whitewater, Wisconsin was elected a member of the Council on Education, representing large animal clinical science, at the AVMA Convention. Dr. Allenstein is a Past President of AABP and has served as advertising manager for many years.



Dr. Stanley E. Held, Buffalo, Minnesota was elected Chairman of the AVMA Executive Board at the annual convention in Orlando, Florida on Monday evening, July 17, 1989. He was the Board representative from District 6, which includes Iowa and Minnesota.



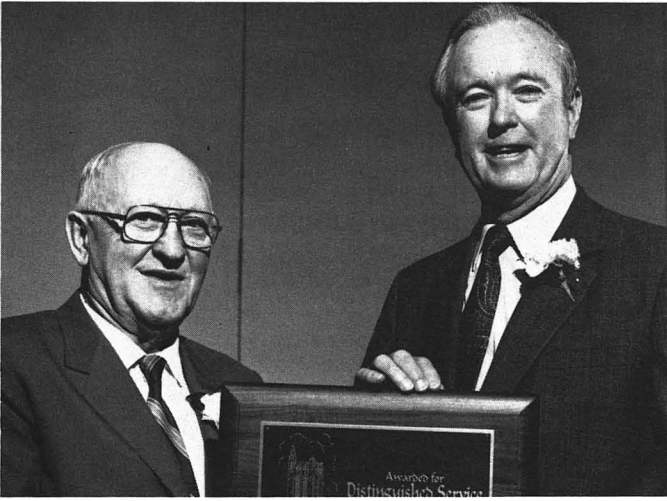
Dr. Lawrence E. Heider, Columbus, Ohio was elected to the Council on Veterinary Service, representing academic clinical science, at the AVMA Convention. Dr. Heider represents District 4 on the AABP Board of Directors.



Dr. and Mrs. Dan E. Williams

Dr. Donald E. Williams, Guymon, Oklahoma received the Oklahoma VMA Food Animal Practitioner of the Year Award during the annual convention in Tulsa on Saturday, January 21, 1989. He is the first recipient of the award which was established to honor the practitioner who is currently active in food animal veterinary medicine and whose outstanding contributions have aided in elevating standards, refining techniques and improving methods of practice for more skillful treatment in food animal veterinary medicine.

Dr. Williams is a Past President of the AABP.



Dr. James Anderson, MSU vice provost and Dean of the College of Agriculture and Natural Resources presenting Dr. Sterner (left).

Dr. Edward F. Sterner, Ionia, Michigan was awarded the Michigan State University Distinguished Service Award in Agriculture at the President's Luncheon on March 23, 1989. The award ceremony was part of the Agriculture and Natural Resources Week activities, March 18-25 at MSU.

The award is made annually to people who have demonstrated outstanding leadership in Michigan Agriculture and who have provided substantial assistance to the improvement of agriculture education and research at MSU. A portrait and citation that indexes each recipient's contribution to agriculture is on permanent display at MSU's Agriculture Hall.

Dr. Sterner is the first veterinarian to receive the Award. He is also the first AABP member to be named Bovine Practitioner of the Year when the award was established in 1978.



Dr. Charles Harris, VMA President, presenting Dr. Washington accompanied by his wife Patti.

Dr. George E. Washington, Purcellville, Virginia was named the Virginia Veterinarian of the Year during the 92nd annual convention of the Virginia VMA in Richmond on February 18, 1989. Dr. Washington is a Past President of the AVMA and was District 2 director for several years. He is the owner of Loudoun Veterinary Service with large and small animal practice offices. Dr. Washington is mainly engaged in dairy practice.

Future AABP Meetings

1990—Indianapolis, IN, September 13—16

*1992—ST. Paul, MN, August 31—September 4

1991—Orlando, FL, September 19—22

*Joint Meeting with World Association for Buiatrics

XVI World Congress on Cattle Diseases

August 13 – 17, 1990

Salvador – Bahia – BRAZIL



The XVI World Congress on Cattle Diseases (Buiatrics) will be held in conjunction with the VI Latin American Buiatrics Congress in Salvador–Bahia, Brazil, South America on August 13–17, 1990.

The Congress will be held in the magnificent convention center.

Colonized by the Portuguese who imported slaves from Africa, Salvador is the most African of all Brazil's cities and throughout, visitors experience the combined heritage in the famed Bahian hospitality and colorful

scenes. A tour of the city reveals the upper narrow cobblestone streets, importing colonial architecture, medieval-looking fortresses and Baroque churches including the incredible São Francisco before entering the lower level for a stop at the Modelo Market. Bahia's beaches include a 45 mile strip of white sands fringed with palm trees. The climate reflects the sensuality of the sun—a mild and pleasant temperature (yearly average 78°F) varying no more than 10°.

Preliminary Program

Monday, August 13

10:00 AM – 6:00 PM Registration

3:00 PM – 4:00 PM Latin American Association of Buiatrics Board Meeting

4:00 PM – 5:00 PM World Buiatrics Association Board Meeting

8:00 PM – 9:00 PM Opening Ceremony Gustav Rosenberg Memorial Award

9:00 PM Cocktail Reception/Folklore Presentation

Tuesday, August 14

9:00 AM – 10:00 AM Opening Session: Keynote Address

10:15 AM – 1:00 PM Parallel Scientific Sessions

3:00 PM – 5:00 PM Parallel Scientific Sessions

4:00 PM – 5:00 PM Round Tables

Wednesday, August 15

9:00 AM – 10:00 AM Symposium: Plenary Session

10:15 AM – 1:00 PM Parallel Scientific Sessions

3:00 PM – 5:00 PM Parallel Scientific Sessions

4:00 PM – 5:00 PM Round Tables

Thursday, August 16

9:00 AM – 10:00 AM Conference: Plenary Session

10:15 AM – 1:00 PM Parallel Scientific Sessions

3:00 PM – 5:00 PM Parallel Scientific Sessions

4:00 PM – 5:00 PM Symposia

9:00 PM Farewell Dinner and Show

Friday, August 17

9:00 AM – 10:00 AM General Assembly of the Latin American Association of Buiatrics

10:00 AM – 11:00 AM General Assembly of the World Buiatrics Association

11:15 AM – 1:00 PM Parallel Scientific Sessions

3:00 PM – 5:00 PM Parallel Scientific Sessions

5:30 PM Closing Ceremony

1. Diseases of the digestive tract
2. Diseases of the respiratory tract
3. Diseases of the circulatory system
4. Nutritional and metabolic diseases
5. Diseases of the central nervous system
6. Genetics and selection
7. Diseases of the locomotor system
8. Pathology and husbandry in extensive farm
9. Tropical and subtropical diseases
10. Diseases of the newborn calf
11. Computer applied to Buiatrics
12. Anabolizers
13. Miscellaneous topics

The deadline for submitting papers to the Organizing Committee is February 28, 1990.

Organizing Committee/Secretariat Congress

XVI World Buiatrics Congress

Setor Comercial Sul

Quadra 1 – Bloco "E"

Edifício Cear- – 14º andar

Brasília – Distrito Federal

BRAZIL

South America



Members of the organizing and scientific committee of the 1990 Salvador Congress: Dr. René Dubois, Dr. Josélio de Aurdadi Moevca, Dr. Pierre Lekeux, and Dr. José Lira.

Provisional Scientific Program

A – Major Topics

1. Reproduction. Embryotechnology
2. Parasitic diseases
3. Field surgery
4. Zebu and buffalo production
5. Management for meat, dairy and fiber production

B – Other Topics

World Association for Buiatrics Secretary



Prof. Dr. Pierre LeKeux, University of Liege, (Ulg) Brussels, Belgium, is the new Secretary of the World Association for Buiatrics. He succeeds Prof. Dr. M. Stober, Hannover, W. Germany who retired last year after many years of loyal service to the Association.

Born in Liege, Belgium, Prof. Dr. LeKeux received the D.V.M. from the University of Liege in 1978. He spent one year in large animal practice followed by a two year residence in the Department of Large Animal Medicine, University of Liege. He received the Ph.D. degree from the University in 1984. His thesis was on bovine pulmonary function. He became Chairman of the Department of Animal Physiology at Ulg in 1986. He has been assistant editor of "Annales de Médecine Vétérinaire" and a member of the research council at Ulg since 1984. He became general secretary of the Belgian Association for Buiatrics in 1982. He is President of the Comparative Respiratory Society, USA and is the author of 75 publications in international journals. He has presented papers at numerous scientific meetings in many foreign countries.

British Cattle Veterinary Association

Summer Meeting, 1989

The summer meeting of the British Cattle Veterinary Association (BCVA) was held at Trinity College, Carmarthen, S. Wales, U.K. on July 5-6, 1989 with over 100 members attending. The Association was founded in 1968 with Professor Charles Grunsell, Bristol, as President. Today there are over 1100 members in the British Isles and over 100 overseas. The Board of Directors is made up of the officers and twelve Directors, the latter being elected "at large." They serve a three-year term and are not eligible for immediate re-election.

The program on Wednesday afternoon, July 5, was devoted to "Problems in Using Antibiotics in Cattle" by Professor Peter Keen, Bristol, and "Medicines on the Farms" by Ian Hutchinson, Arundel. Following a break for tea, Hugh Richards, a local dairy farmer, spoke on his experiences with the clinical trial of BST while Peter Rees, Aberystwyth presented results with BST and possible consumers' reaction. There appears to be widespread skepticism over the possible approval of BST. Dr. Eric Williams, U.S.A., presented a paper on "Future directions for veterinary medicine" and reviewed the preliminary report of the Pew Committee.



BCVA officers: Dr. Ian Baker, Treasurer, Dr. C.L. Watson, Hon. Secretary; Mrs. J.S. Watson, Secretariat; Dr. A.B. Forbes, President; Dr. D. Pepper, Senior Vice President; Dr. David Bee, Junior Vice President.



Dr. Ian Baker conducting the Clinic Club.

On Wednesday evening, the banquet speaker was David Lloyd George, Director, Intellectual Property, scientific and Regulatory Affairs, Association of the British Pharmaceutical Industry.

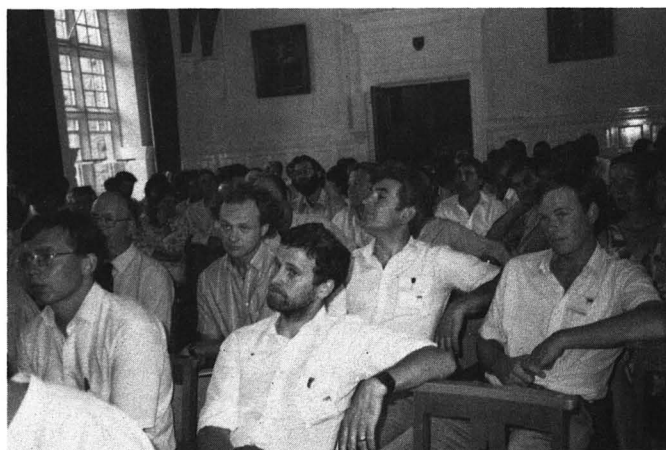
Thursday morning, July 6 was focused on nervous diseases with Dr. Islwyn Thomas, Llandeilo, presenting an interesting paper and video on "Coenuriasis (gid) in cattle"; Dr. David Thomas, Veterinary Investigation Center, Carmarthen, described "Laboratory diagnosis of neurological conditions in cattle," followed by an "Update on bovine sporadic enccephalopathy (BSE)," which is a relatively new disease linked with the scrapie pathogen.

The remaining sessions were devoted to problems associated with breeding, including "Examination of the breeding bull" by Dr. John David, Bristol; "Disease transmitted by natural services" by Dr. Steven Edwards, Weybridge; "Evaluation of bull semen" by Dr. Stewart Revell, Ruthin; and "Surgical procedures in bulls" by Professor H. Pearson, Bristol.

The final paper was presented by John Hughes, Crewe, on "How buildings affect the infertility of cattle."



Dr. and Mrs. Islwyn Thomas; Dr. Lloyd George; President Forbes.



Cattle practitioners at the meeting.

Sixth International Symposium on Lameness in Ruminants

July 17th – 19th, 1990
University of Liverpool, England

Monday 16th July: Registration, 1400 – 1730

University of Liverpool
Rathbone Hall, Greenbank, Mossley Hill, Liverpool

Tuesday 17th July:

Session 1. Laminitis in perspective

Chairman: **Prof. D. Weaver**

0900 – 0935	Terminology and pathogenesis associated with laminitis in cattle.	G. David
0935 – 1035	Comparative views of laminitis: the horse the sheep the pig	S. May T. Boudy Prof. R. Penny
1035 – 1100	Discussion	
1100 – 1120	Coffee	
1120 – 1150	Laminitis in the cow	Prof. P. Greenhough
1150 – 1220	Management and rearing factors associated with laminitis	Dr. J. Vermunt
1220 – 1300	Discussion	
1300 – 1400	Lunch	

Session 2

a) Practice update: The lame cow – diagnosis and treatment

Chairman: **I.D. Baker**

1400 – 1430	Surgical anatomy and treatment of the diseased bovine digit	Prof. B. Edwards
1430 – 1500	Applied diagnostic techniques in cattle lameness	Prof. U. Bargi
1500 – 1530	Treatment of distal inter-phalangeal lesions	Prof. P. Greenhough
1540 – 1600	Tea	
1600 – 1630	Description and diagnosis of superficial digital lesions in dairy cattle	R. Blowey
1630 – 1700	Discussion	

b) Research presentations: Pathology of laminitis

Chairman: **R.D. Murray**

1400 – 1430	Pathological methods and changes associated with lameness in ruminants	Dr. A. Basse
1430 – 1500	Histopathological changes associated with inflammatory lesions of the bovine foot	Dr. K. Mortensen
1500 – 1530	Influence of toxic factors on inflammatory lesions in the ruminant digit	Dr. M. Hesselholt or co-worker
1540 – 1600	Tea	
1600 – 1630	Novel methods of pathological investigation in digital disease	A.M. Johnston
1630 – 1700	Discussion	

1930 for 2000 Dinner; ceilidh; folk dancing

Wednesday 18th July:

Session 3. Factors predisposing to cattle lameness

Chairman: **W.B. Faull**

0900 – 0930	Behavioural and welfare aspects of cattle lameness in relation to building design	Dr. M. Potter
0930 – 1000	Cattle lameness and cubicle design	J. Cermak
1000 – 1030	Housing, lameness, and behavioural studies	Dr. H. Wierenga

1030 – 1100	Discussion	
1100 – 1120	Coffee	
1120 – 1150	Influence of forage: concentrate ratios on lameness in dairy cattle	Dr. F. Manson
1150 – 1220	Effect of feed changes around calving on cattle lameness	Prof. D. Lever
1220 – 1300	Discussion	
1300 – 1400	Lunch	

Session 4

a) Practice update: The need for practical foot care

Chairman: **D. Pepper**

1400 – 1430	Practical foot care	D. Collick
1430 – 1500	Benefits of routine foot care in dairy cattle	Dr. D. Logue
1500 – 1530	New aspects of functional anatomy of the claw	Prof. O. Dietz
1540 – 1600	Tea	
1600 – 1630	Biomechanics of bovine digital joints	Dr. Ch. Stanek
1630 – 1700	Discussion	

b) Research presentations: Collection and evaluation of data

Chairman: **Prof. D. Weaver**

1400 – 1430	Concrete/foot interactions	J. Dumelow
1430 – 1500	Pedobarometric forces at the sole/floor interface	Dr. O. Distl
1500 – 1530	Pedometric analysis of cattle behaviour	Dr. C. Phillips
1540 – 1600	Tea	
1600 – 1630	Methods of data evaluation in studies on lameness	Prof. M. Clarkson
1630 – 1700	Ecopathological survey of lameness in dairy herds	Dr. P. Pluvillage

1930 for 2000 Congress Dinner

Speakers: **D.J. Bee**, President, British Cattle Veterinary Association
Prof. D. Weaver, University of Missouri-Columbia

Thursday 19th July:

Session 5: Genetic influences on lameness

Chairman: **A.B. Forbes**

0900 – 0930	Correlation between sires, daughters and selection for improved structural claw soundness	Dr. C. Baumgartner
0930 – 1000	Hoof and leg traits in dairy cattle	Dr. G. Ahlstrom
1000 – 1030	Discussion	
1030 – 1100	Coffee	
1100 – 1130	Effect of lameness on fertility in dairy cattle	Dr. R. Ward
1130 – 1200	Economic implications for the U.K. dairy industry of lameness	Dr. R. Esslemont
1200 – 1230	Discussion	
1230 – 1300	Working party report and conference close	Prof. P. Greenhough
1300 – 1400	Lunch	

Further information from **Dr. R.D. Murray**, Coordinator, Department of Veterinary Clinical Science, The University of Liverpool, Leahurst, Neston, South Wirral L647TE, England.

NOTES

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ACTION Estrumate causes functional and morphological regression of the *corpus luteum* (luteolysis) in cattle. In normal, non-pregnant cycling animals this effect on the life span of the *corpus luteum* usually results in estrus two to five days after treatment. In animals with prolonged luteal function (pyometra, mummified fetus, and luteal cysts) the induced luteolysis usually results in resolution of the condition and return to cyclicity. Pregnant animals may abort depending on the stage of gestation.

INDICATIONS For intramuscular use to induce luteolysis in beef and dairy cattle. The luteolytic action of Estrumate can be utilized to manipulate the estrous cycle to better fit certain management practices, to terminate pregnancies resulting from mismatings and to treat certain conditions associated with prolonged luteal function.

RECOMMENDED USES **Unobserved or Non-Detected Estrus.** Cows which are not detected in estrus although ovarian cyclicity continues can be treated with Estrumate if a mature corpus luteum is present. Estrus is expected to

occur two to five days following injection, at which time animals may be inseminated. Treated cattle should be inseminated at the usual time following detection of estrus. If estrous detection is not desirable or possible, treated animals may be inseminated twice at about 72 and 96 hours post injection.

Pyometra or Chronic Endometritis Damage to the reproductive tract at calving or post partum retention of the placenta often leads to infection and inflammation of the uterus (endometritis). Under certain circumstances, this may progress into chronic endometritis with the uterus becoming distended with purulent matter. This condition, commonly referred to as pyometra, is characterized by a lack of cyclical estrous behavior and the presence of a persistent *corpus luteum*. Induction of luteolysis with Estrumate usually results in evacuation of the uterus and a return to normal cyclical activity within 14 days after treatment. After 14 days post treatment, recovery rate of treated animals will not be different than that of untreated cattle.

Mummified Fetus Death of the conceptus during gestation may be followed by its degeneration and dehydration. Induction of luteolysis with Estrumate usually results in expulsion of the mummified fetus from the uterus. (Manual assistance may be necessary to remove the fetus from the vagina). Normal cyclical activity usually follows.

Luteal Cysts A cow may be non-cyclical due to the presence of a luteal cyst (a single, anovulatory follicle with a thickened wall which is accompanied by no external signs and by no changes in palpable consistency of the uterus).

Treatment with Estrumate can restore normal ovarian activity by causing regression of the luteal cyst.

Pregnancies from Mismatching Unwanted pregnancies can be safely and efficiently terminated from one week after mating until about five months of gestation. The induced abortion is normally uncomplicated and the fetus and placenta are usually expelled about four to five days after the injection with the reproductive tract returning to normal soon after the abortion. The ability of Estrumate to induce abortion decreases beyond the fifth month of gestation while the risk of dystocia and its consequences increases. Estrumate has not been sufficiently tested under feedlot conditions therefore recommendations cannot be made for its use in heifers placed in feedlots.

Controlled Breeding The luteolytic action of Estrumate can be utilized to schedule estrus and ovulation for an individual cycling animal or a group of animals. This allows control of the time at which cycling cows or heifers can be bred.

SAFETY AND TOXICITY At 50 and 100 times the recommended dose, mild side effects may be detected in some cattle. These include increased uneasiness, slight frothing, and milk let-down.

CONTRAINDICATIONS Estrumate should not be administered to a pregnant animal whose calf is not to be aborted.

PRECAUTIONS There is no effect on fertility following the single or double dosage regimen when breeding occurs at induced estrus or at 72 and 96 hours post treat-

ment. Conception rates may be lower than expected in those fixed time breeding programs which omit the second insemination (i.e., the insemination at or near 96 hours). This is especially true if a fixed time insemination is used following a single Estrumate injection. As with all parenteral products, careful aseptic techniques should be employed to decrease the possibility of post injection bacterial infection. Antibiotic therapy should be employed at the first sign of infection.

DOSAGE AND ADMINISTRATIONS 2 ml of Estrumate (500 mcg of cloprostenol) should be administered by **INTRAMUSCULAR INJECTION** for all indications in both beef and dairy cattle.

WARNINGS For veterinary use only. Women of child-bearing age, asthmatics and persons with bronchial and other respiratory problems should exercise extreme caution when handling this product. In the early stages, women may be unaware of their pregnancies. Estrumate is readily absorbed through the skin and may cause abortion and/or brnchiospasm. Direct contact with the skin should therefore be avoided. Accidental spillage on the skin should be washed off immediately with soap and water.

STORAGE CONDITIONS Protect from light. Store in container. Store at controlled room temperature 59°-86° F. (15°-30° C.).

CAUTION Federal (U.S.A.) law restricts this drug to use by or on the order of a licensed veterinarian.

HOW SUPPLIED 10 ml and 20 ml multidose vials.



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