

American Association of Bovine Practitioners

# Nineteenth Annual Conference

Louisville, Kentucky  
November 18-21, 1986  
Specialty Seminars November 15-20

## Schedule of Events

### REGISTRATION

Galt House East  
Registration Area

**Monday, November 17—7:00 A.M.-5:00 P.M.**

**Tuesday, November 18—7:00 A.M.-5:00 P.M.**

**Wednesday, November 19—7:00 A.M.-5:00 P.M.**

**Thursday, November 20—8:00 A.M.-5:00 P.M.**

**Friday, November 21—8:00 A.M.-5:00 P.M.**

### INVITATION FROM THE PROGRAM COMMITTEE

The 1986 Program Committee offers warmest greetings to all A.A.B.P. members, spouses, and guests, who are headed for Louisville, "Home of the Kentucky Derby," for the 19th Annual Conference. You can be certain that 'Southern Hospitality' will abound and combine with an informative program, entitled, "Bovine Practice Tomorrow," in which forty-two hours of continuing education is available for the single registration fee. Practice Tips, Research Summaries, General, Dairy, and Beef Sessions, tours, and exhibits, will provide ample learning and personal development opportunities.

Our opening ceremonies will begin on Tuesday, November 18, 1986, at 7:00 p.m. Practice Tips and Research Summaries will be the first of the educational series to be offered that evening, while spouses will enjoy a reception and slide presentation of all that the "Blue Grass" state has to offer.

On Wednesday, there will be two General Sessions; the Business Side of Your Practice, and Marketing Veterinary Services. That evening we will feast at a country banquet and tap our boots to the entertainment of the Berea Cloggers.

Starting on Thursday morning we will have split Sessions for the remainder of our meeting. In depth seminars will be held before and throughout the entire meeting.

Highlighting your visit will undoubtedly be the visit to the North American Livestock Sale of Champions. Thursday evening the Kentucky Pork & Beef Producers and the Kentucky Dairywomen will provide a hearty "down home" meal of steaks and chops. Guests may then enjoy dancing to a country/western band.

The Local Arrangements Committee has organized an abundance of activities for all spouses and guests. Post Convention tours are scheduled on Saturday for the Kentucky Horse Park and Claiborne Farm.

Preparing this educational and social program for you has given us great pride and pleasure. We are fortunate to have superior individuals to present our scientific programs. All of us are looking forward to our Kentucky adventure.

### CONFERENCE GREETINGS FROM THE PRESIDENT NEIL G. ANDERSON

Our program committee has risen to the challenge of delivering quality continuing education to practicing veterinarians. The task was great, the problems encountered were conquered, and I am sure you will benefit by attending.

General sessions will provide economical learning opportunities to all members. Some seminars have been repeated by popular demand. New seminars and repetition of many will provide more active participation and interaction with instructors.

There is ample opportunity to acquire new information and develop new skills necessary for a competitive position in the marketplace. From a broader point of view, our increased performance will benefit the livestock producers of North America, and our mutual clients, the consumer.

The elements of a successful meeting are in place. Louisville is an attractive and central location; the Galt House provides excellent facilities; competent speakers will deliver pertinent information useful at home in practice; loyal exhibitors and sponsors will be present; and an abundance of true southern hospitality has been provided by members of the local arrangements committee.

The business aspects of A.A.B.P. will probably be conducted unnoticed by many. Dedicated volunteer committee members will meet and forward their recommendations to the board. Directors deliberate daily to decide policy for the growth and well-being of the association. Election of officers and presentation of

practitioner awards are a highlight of the annual business luncheon to be enjoyed by all.

Your participation in Louisville will acknowledge the benevolence of numerous volunteers contributing to this conference. On behalf of the A.A.B.P. membership, I give thanks to all contributors for a job well done.

Whether this is your first A.A.P.B. conference or your nineteenth, I wish you a warm welcome and fruitful participation.

## AABP COMMITTEE MEETINGS

**Tuesday, November 18-1:00 P.M.-3:00 P.M.**

All committees except those otherwise listed will meet in Carroll Ford Room GHE.

### **Reproduction Committee**

Chairman Erich Studer

Roundtable—Reproductive Indices  
in Dairy Herd Health  
Brown Room GHE

## SEMINARS

### **TECHNICAL SEMINAR 1**

#### **Quality Milk**

Level: Advanced

Limit: 20 Fee: \$475.00 per person

Date: Saturday, November 15—Monday, November 17

Time: 8:00 a.m. Saturday to 10:00 p.m. Monday

Room: Queen GH

Supervisor: Jim Jarrett

Instructors: Jim Jarrett, Paul Blackmer, Bob Bushnell, Larry Heider

**Paul Blackmer**—Quality milk problems with relation to high bacteria counts, off flavors, and evaluation of milking equipment in large herd management situations.

**Bob Bushnell**—Bacteriology and other management aspects of producing quality milk.

**Larry Heider**—Evaluation of milking equipment in small dairy barns with emphasis on bucket milkers and current approaches to therapy.

**James Jarrett**—Basic milking machine functions and evaluations.

**The entire staff will be involved in discussion of these and other areas related to production of quality milk.**

### **TECHNICAL SEMINAR 2**

**Environmental Problem Solving—An Epidemiological Approach to Total Animal Health Care**

Level: Advanced

Limit: 15 Fee: \$160.00

Date: Thursday, November 20

Time: 8:00 a.m. to 5:00 p.m.

Room: Brown GHE

Supervisor: John F. Anderson

Instructors: J. F. Anderson and D. W. Bates

This Seminar will begin with the epidemiological and engineering requirements of mechanically and naturally ventilated animal housing units. Following this presentation, each participant will give a five minute description of one producer's dairy or beef operation. These will each be followed by a group discussion applying the earlier described principles. The instructors will then give their recommendations and reasons for their solutions.

**In order to allow time for instructor communication with individual participants on organization and visual aids, the registration deadline for this seminar is October 1, 1986.**

### **TECHNICAL SEMINAR 3**

#### **Clinical Pathology for Bovine Practitioners**

Level: Entry

Limit: 30 Fee: \$50.00

Date: Tuesday, November 18

Time: 1:00 p.m. to 5:00 p.m.

Room: Water Poet GH

Supervisor: A. H. Rebar

Instructor: A. H. Rebar

This seminar will be divided into two two-hour segments: Hematology and Clinical Chemistry. The hematology segment will emphasize the approach to the interpretation of hemogram data in cattle, approximately equal time will be spent discussing red cell disorders (anemias) and white cell responses in disease. The chemistry segment will begin with an overview of the approach to the interpretation of clinical chemistry data in general. The remainder of the session will use actual case material to illustrate interpretive principles.

### **TECHNICAL SEMINAR 4**

#### **Beef Nutrition**

Level: Intermediate

Limit: 30 Fee: \$50.00

Date: Wednesday, November 19

Time: 8:00 a.m. to 12:00 noon

Room: Governor GHE

Supervisor: James A. Boling

Instructors: James A. Boling, Fred Knapp and Russell Muntifering

The nutrition seminar is designed to update veterinarians with the latest information on nutritional-metabolic interrelationships in beef cattle. Individuals should have a basic background in nutrition and/or practical field experience relating to solution of nutritional-metabolic disorders. The four major topics which will be discussed are: protein metabolism in



growing cattle, including new advances in bypass of ruminally protected amino acids; latest concepts in forage utilization, with special emphasis on fiber measurements and constituents; quantitative and physiological influences of external parasites (horn and stable fly) on nutrient utilization and metabolism; dietary nutrient and feed additive influences on magnesium utilization and the development of hypomagnesemic tetany in grazing beef cows. Registrants will identify and view parasites discussed, observe different physical and chemical forms of specific feed constituents and participate in interactive discussions.

### **TECHNICAL SEMINAR 5**

#### **Beef Nutrition**

If Technical Seminar 4 overfills it will be repeated Wednesday p.m. November 19. Details will be sent to those registrants that cannot be accommodated in Seminar 4

### **TECHNICAL SEMINAR 6**

#### **Beef Cattle Reproductive Management**

Level: Entry

Limit: 30 Fee: \$75.00

Date: Wednesday, November 19

Time: 8:00 a.m. to 4:00 p.m.

Room: Brown GHE

Supervisor: Duane Miksch

Instructors: James N. Wiltbank, Lawrence E. Rice,  
Duane Miksch and Curtis Absher

This course will focus on management of beef herds for intensified reproduction. Life-cycle management for establishing and maintaining maximum reproductive efficiency will be emphasized.

Topics will include:

- Feeding for improved reproductive efficiency
- Body condition scores in assessing reproductive status
- Replacement heifer selection and development
- Suckling management
- Bull selection to enhance herd fertility
- Breeding soundness evaluation
- Mating behavior evaluation
- Estrous synchronization
  - Evaluation of available methods
  - Management for maximum benefit
- Improving estrus detection
- Profitable culling practices

Some classroom time will be spent working out problems. Each participant should bring a pocket calculator.

### **TECHNICAL SEMINAR 7**

#### **Embryo Transfer and Embryo Freezing Update**

Level: Advanced

Limit: 30 Fee: \$100.00

Date: Thursday, November 20

Time: 8:00 a.m. to 4:30 p.m.

Room: Governor GHE

Supervisor: Joe Wright

Instructors: Joe Wright, Reuben Mapletoft,  
Robert Rowe and Edwin Robertson

Topics to be covered:

- Use of filters in embryo collection
- Embryo evaluation
- Superovulation—hormone usage, variation, etc.
- Non-Surgical transfer methods
- Equipment and sterilization procedures
- Troubleshooting
- Recipient management
- Embryo culture techniques and culture medias
- Embryo freezing and thawing
- New developments on the horizon

### **TECHNICAL SEMINAR 8**

If Technical Seminar 7 overfills it will be repeated Friday, November 21. Details will be sent to those registrants that cannot be accommodated in Seminar 7.

### **TECHNICAL SEMINAR 9**

#### **Practice Management & Marketing**

Level: Entry

Limit: 25 Fee: \$100.00

Date: Tuesday, November 18

Time: 8:00 a.m. to 5:00 p.m.

Room: Governor GHE

Supervisor: Jerome Harness

Instructors: Jerome Harness and Dwight Cochran

An opportunity to share what an Eastern dairy and a Midwestern beef practitioner have done to solve real world problems. These include marketing services, personnel management, practice management, client education, business procedures, etc.

The format will be informal and interactive with a substantial variety of topics discussed and take home material provided.

### **TECHNICAL SEMINAR 10**

If Technical Seminar 9 overfills it will be repeated Thursday, November 20. Details will be sent to those registrants that cannot be accommodated in Seminar 9.

### **TECHNICAL SEMINAR 11**

#### **Veal Raising**

Level: Entry

Limit: 30 Fee: \$100.00

Date: Tuesday, November 18

Time: 8:00 a.m. to 5:00 p.m.

Room: Queen GH  
 Supervisor: Robert R. Blease  
 Instructor: Robert R. Blease

A comprehensive seminar covering all aspects of raising veal.

Veal raising is a very specialized and technical process. This seminar covers all aspects of veal raising needed for a veterinarian to make a competent decision when entering a veal barn.

Topics to be covered:  
 Confinement housing  
 Ventilation  
 Nutrition  
 Preparing the milk  
 Feeding schedules  
 Prevention programs  
 Diagnosis and treatments  
 Philosophy of veal raising

The fancy veal industry is only 25 years old and very few facts are available to a practitioner. This is the first seminar of its kind ever available to veterinarians in the United States.

## **TECHNICAL SEMINAR 12**

### **Dairy Nutrition**

Level: Advanced  
 Limit: 30 Fee: \$120.00  
 Date: Wednesday, November 19  
 Time: 8:00 a.m. to 9:30 p.m.  
 Room: Breathitt GHE  
 Supervisor: Larry E. Chase  
 Instructors: Larry E. Chase and B. W. McBride

This seminar is designed for individuals with some basic nutrition background and/or experience in working with dairy nutrition problems in the field. The seminar will be a discussion-type seminar with time for questions. Come prepared to participate and bring your questions. Subjects will include problem solving approaches, heifer and dry cow nutrition, metabolic disorders, fiber, protein and mineral nutrition. (There will be an evening microcomputer lab.)

## **TECHNICAL SEMINAR 13**

### **Dairy Herd Health Monitoring and Nutrition With an Emphasis on the Use of Microcomputers**

Level: Advanced  
 Limit: 20 Fee: \$350.00  
 Date: Sunday, November 16 to Tuesday, November 18  
 Time: 8:00 a.m. November 16 to 5:00 p.m. November 18  
 Room: Kings Head GH  
 Supervisor : Ben Harrington  
 Instructors: Ben Harrington, Tim Lesch and John Fetrow  
 Ken Braun, Fred Troutt and Jenks Britt will assist

with the third day problem solving.

The seminar will provide practical tools, both paper and computer, that a dairy practitioner can take from the seminar and use immediately in his/her practice. It is not our intention to teach practitioners about microcomputers per se; that is being very well covered in other AABP seminars. We do intend to emphasize the use of microcomputers as a tool that can greatly expand a practitioner's ability to provide service at a preventive/productive herd level. As such, our view is that this seminar would be analagous to the Milk Quality or TI-59 Nutrition seminars. The seminar would be the next logical step in progression for practitioners who have taken the AAPB introductory microcomputer seminars and who now want to master a particular realm of microcomputer use. The seminar is also an appropriate "wet lab" follow-up for Dr. Braun's 1984 seminar on herd health records and analysis.

All seminar specific software will be provided free to the participants as a part of their registration fee. This would of course not include the costs of commercial software needed to run the specific programs. To use the programs we will provide, the practitioner would have to purchase the DOS, LOTUS 123 or SYMPHONY software along with the hardware needed to run the programs

The programs will be designed to run on IMB/PC compatible computers, allowing the practitioner maximum choice in what hardware to buy and minimizing the risk that his/her hardware will become obsolete. You may bring your own compatible computers to the seminar. We plan to have COMPAQ portables available for the seminar, one per two participants. Please contact Ben Harrington for information about using your own computer, contact at 1817 Stillwater Drive, Raleigh, NC 27607. Phone: 919-829-4241 (day), 919-787-1029 (night).

## **TECHNICAL SEMINAR 14**

### **Llama**

Level: Entry  
 Limit: 30 Fee: \$50.00  
 Date: Wednesday, November 19  
 Time: 1:00 p.m.-5:00 p.m.  
 Room: Kings Head GM  
 Supervisor : Bill Foster  
 Instructors: Bill Foster, Larue Johnson

The llama industry has grown and sustained itself and is now a growing factor in the farm economy. The scope of this four hour seminar in camel medicine will include a wealth of information for the inexperienced and the seasoned veterinarian. Handouts and references will be provided with instruction in common diseases, neonate care, pregnancy diagnosis and herd health management of the camel.

## TOTAL LIVING SEMINAR A

### Stress in the Professional Family

Level: All registrants, including exhibitors.

Couples are encouraged to attend.

Limit: Unlimited Fee: \$25.00

Date: Wednesday, November 19

Time: 1:00 p.m. to 3:30 p.m.

Room: Nunn GHE

Supervisor: Robert P. Granacher Jr., M.D.

Instructors: Robert P. Granacher Jr., M.D. and

Linda Granacher, MSW

Robert and Linda Granacher not only treat professional families but are a professional family and work together professionally which gives them special insights.

The seminar will consist of the presentation of difficulties encountered within professional families. Certain unique aspects of these difficulties will be presented. Participants will be invited to submit anonymous questions and these will be answered within the context of the program.

## OPENING CEREMONIES

Tuesday, November 18

7:00 p.m.-7:30 p.m.

Grand Ball Room GHE

Welcome by: Sue Billings, KVMA President

Governor of Kentucky, Martha Layne Collins

## PRACTICE TIPS

Tuesday, November 18

7:30 p.m.-10:00 p.m.

Grand Ball Room GHE

Jerome Harness In Charge

**Leverne Harris**—Uterine Infusion Catheter

**David Weaver**—Correction of Spastic Paresis

**Don Atkinson**—Intravenous Catheterization

**Arthur McIntosh**—Indwelling Bloat Relief Instrument

**Gale DeJong**—Use of Chain Hoists

**John Swingle**—Therapy for the "normal" Repeat Breeder

**Dale Haggard**—Fenbendazole in a Cow Calf Operation

**Steven Stewart**—Simple Lotus 1-2-3 Work Sheets

**Donald Lynch**—Large Volume Blood Collection

**Toby Hoover**—Use of Portable Surgery Tray

Buhrner Suture Patterns

**Mark Hilton**—Chem Cast to Dehorn Calves

Graphing DHIA Data

**Rich Meiring**—Use of a Come Along in a Bovine Practice

**Don Sanders**—Bovine Practice

**Keith Sterner**—Use of a Miner's Light in Bovine Practice

**Roland Jeans**—Chain Tie Downs

**Sam Hutchins**—Making Slides for Talks

## RESEARCH SUMMARIES

Tuesday, November 1

7:30 p.m.-10:00 p.m.

Cochran Room GH

Craig Thatcher In Charge

New Research on Secretory Diarrhea in Calves.

**A. Roussel**, Texas A&M.

Bovine Leukocyte Interferon: Immunomodulatory and

Antiviral Effects. **K. Jacobsen**, University of Georgia.

Paratect®: A Sustained Release Anthelmintic. **S. Huse**, Pfizer Co.

Angular Limb Deformities in the Bovine. **R. W. Markham\*** and **H. W. Leipold**, Kansas State University.

The Role of *Hemophilus somnus* in Early Embryonic Death. **J. B. Kaneene\***, **D. H. Coe** and **C. D. Gibeon**, Michigan State University.

The Use of a Cow-side Milk Progesterone Test in a Dairy Reproductive Program. **W. D. Whittier**, Virginia Polytechnic Institute & State University.

Bovine Mammoscopy: A New Method for Evaluating and Treating Teat Canal Obstruction. **S. B. Adams\***, **H. E. Amstutz**, **P. N. Boehm**, Purdue University.

Detection of Residual Penicillin in Milk using a *Bacillus stearothermophilus* Disk Assay Following Intrauterine Infusion in Post Estrual Holstein Cows. **D. G. McClary**, Auburn University.

Plasma Transfusions in Therapy of Failure of Colostral Immunoglobulin Transfer. **K. L. Anderson**, **E. Hunt\*** and **S. A. Fleming**, North Carolina State University.

Auxotrophic *Salmonella dublin* Vaccine in Dairy Calves. **G. A. Donovan\***, **R. K. Braun** and **T. Q. Tran**, University of Florida.

## AUTOTUTORIALS

### Combs Chandler Room GHE

Milton Adsit In Charge

Wednesday, November 19—9:00 A.M.-5:00 P.M.

Thursday, November 20—9:00 A.M.-5:00 P.M.

Friday, November 21—9:00 A.M.-5:00 P.M.

Autotutorials will be available for your viewing. We hope you will use, enjoy and learn from them.

## SCIENTIFIC SESSIONS

### GENERAL SESSION I

#### The Business Side of Your Practice

Wednesday, November 19

8:00 a.m.-12 noon

Grand Ball Room GHE

Elaine Painter—Presiding

8:00-8:30 a.m. **Karl Wise**—Trends and Demographics Affecting Bovine Practice

8:30-9:00	<b>Larry Hamm</b> —Dairy Marketing and Economics, How it Affects Your Practice
9:00-9:30	<b>Don Williams</b> —Beef Economics and the Bovine Practitioner
9:30-10:00	<b>Charles McGinnis</b> —What the Producer Expects From His Veterinarian
10:00-10:30	BREAK
10:30-11:00	<b>Jack Dinsmore</b> —Professional Liability in Bovine Practice
11:00-11:30	<b>Tom Shelton</b> —The Ag Lender/Practitioner Connection: Idaho's Approach
11:30-12:00	<b>Kurt Wohlgemuth</b> —The Veterinarian's Role in Profitable Production

### GENERAL SESSION II Marketing Veterinary Services

Wednesday, November 19  
1:30 p.m.-5:00 p.m.

Grand Ball Room GHE

Larry Hutchinson—Presiding

1:30-3:00	<b>Ed Robertson</b> —"Selling" Your Practice to the Client
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**J. Harness**—Newsletters, Questionnaires, and Phone Contacts

**Dee Griffin**—Getting Paid for Consultation

**Darrel Johnson**—Expanding Services Within Fixed Boundaries

**Dwight Cochran**—Communications via Photocopier

3:00-3:30	BREAK
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3:30-5:00	
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**Harry James**—Dispensing

**Jenks Britt**—Marketing Dairy HH; Pricing and Marketing ET Services

**J. Jarrett**—Bovine Practice in the Next 25 Years

Panel: Marketing Bovine Veterinary Services

### GENERAL SESSION III New Technologies and Bovine Medicine

Thursday, November 20  
8:00 a.m.-12:00 noon

Grand Ball Room GHE

George E. Washington—Presiding

8:00-8:30	<b>David Smith</b> —Somatotrophin
8:30-9:00	<b>Karen Jacobsen</b> —Biotechnology; subunit vaccines, monoclonal antibodies, interferon, interleukin-2
9:00-9:30	<b>George Seidel</b> —Manipulating Reproduction

9:30-10:00	Panel—The Impact of New Technology on Bovine Practice— <b>Smith, Jacobsen, Seidel</b>
10:00-10:30	BREAK
10:30-11:00	<b>Temple Grandin</b> —Cattle Behavior and Cattle Handling
11:15-12:00	<b>Hollis Erb</b> —Field Trials: How to Conduct, How to Interpret Field Trial Data

### DAIRY SPLIT SESSION I

#### Quality Milk Production

Thursday, November 20

1:30 p.m.-5:00 p.m.

Cochran Room GH

Dave McClary—Presiding

1:30-3:00	Quality Milk Production—Case Report Panel
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Moderator: **Dave McClary**

**Boyd Parr**

**Charlie Gardner**

**Andrew Johnson**

**Reilly Glore**

3:00-3:30	
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3:30-4:00	
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BREAK

Bulk tank sampling for quality milk production—**Mark Thurmond**

Update on udder hygiene—

**Woody Pankey**

4:30-5:00	
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Herd problems with unconventional mastitis—**Robert Eberhart**

### DAIRY SPLIT SESSION II

#### Feed Bunk Management

#### How to Get Good Nutrition in the Cow

Friday, November 21

8:00 a.m.-12:00 noon

Grand Ball Room GHE

Ben Harrington—Presiding

8:00-10:00	Feed bunk management—Case Report Panel Moderator: <b>Ben Harrington</b>
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**Sam Galphin**

**Tim Lesch**

**Ken Norland**

**Arden Nelson**

10:00-10:30	
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10:30-11:00	
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BREAK

Engineered Management in Housing—**Bob Graves**

11:00-11:30	
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Trace mineral nutrition and interrelationships as applied to Dairy Cattle—

**W. Jack Miller**

11:30-12:00	
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Practitioner approach to nutrition—**Dave Byers**

### DAIRY SPLIT SESSION III Reproduction

Friday, November 21

1:45 p.m.-4:45 p.m.

Grand Ball Room GHE

Tom McDaniel—Presiding

- 1:45-2:15 Disease transmission by embryo transfer—**Richard Bowen**  
 2:15-2:45 Breeding cows without estrus detection—**Ron Elmore**  
 2:45-3:15 Artificial insemination techniques—**Phil Senger**  
 3:15-3:45 Evaluating herd reproductive status—**Norm Williamson**  
 3:45-4:15 Importance of body scoring in dairy cattle—**Ken Braun**  
 4:15-4:45 Using DHIA records in reproductive management—**Ken Butcher**

**BEEF SESSION I**  
**Cow-Calf/Feedlot Combined**  
**Fescue Toxicity Syndrome**  
 Thursday, November 20  
 8:00 a.m.-12:30 p.m.  
 Court/Dell Quay Room GH  
 Phil Hays—Presiding

- 8:00 An Overview of Current Knowledge—**Garry Lacefield**  
 8:45 Animal Response to Toxic and Non-Toxic Fescue—**Jim Boling**  
 9:30 Sampling and Testing for the Endophyte—**Garry Lacefield**  
 9:50 A Kentucky Practitioner's Experience with Fescue Toxicity—**Larry Cole**  
 10:10 A High Plains Feedlot Practitioner's Experience—**Tim Jordan**  
 10:20 BREAK  
 10:50 Managing and Replacing Toxic Fescue—**Garry Lacefield**  
 11:20 The Economics of Coping vs. Replacing—**Dick Trimble**  
 11:50 Open Forum

- BEEF SESSION II**  
**Cow-Calf/Feedlot Combined**  
**Spaying Heifers: The Whys, Techniques, & Economics**  
 Thursday, November 20  
 1:30 p.m.-4:45 p.m.  
 Court/Dell Quay Room GH  
 Ed Wimpy—Presiding
- 1:30 Why Spay Heifers—**Garry Rupp**  
 2:05 Spaying Techniques—**John Simons/Rich Johnson**  
 2:40 Economics of Spayed Heifers On Grass—**Garry Rupp**  
 3:15 BREAK  
 3:45 Economics of Spayed Heifers in the Feedlot At the Packing House—**Al Edwards**  
 4:15 PANEL

**BEEF SESSION III**  
**Cow-Calf**  
**Integrated Reproductive Management (IRM)**

- Friday, November 21  
 8:00 a.m.-12:00 noon  
 Court/Dell Quay Room GH  
 William Lovell—Presiding
- 8:00 History and Scope of the IRM Concept and Projects—**Curtis Absher**  
 8:45 IRM as Practiced by the Kerr Foundation—**Douglas Fulnechek**  
 9:20 How to Increase the Diagnostic Rate on Bovine Abortions to Over 50%—**Richard B. Miller**  
 10:00 BREAK  
 10:30 Diagnosis of Abortions Caused by Specific Pathogens—**R. B. Miller**  
 11:00 IRM From the Practitioner's Viewpoint—**David Rethorst**  
 11:40 Discussion

**BEEF SESSION IV**  
**Feedlot**  
**Aspects of Computer Usage in Beef Herd Health**

- Friday, November 21  
 8:00-11:50 a.m.  
 Liverpool Room GH  
 Larry Hollis—Presiding
- 8:00 a.m. Retrospective Data Analysis Cow/Calf—**Gary Rupp**  
 8:45 Retrospective Data Analysis Feedlot—**Tim Jordan**  
 9:30 Projection Analysis Stockers—**Larry Hollis**  
 10:15 BREAK  
 10:45 Projection Analysis Feedlot—**Charles Deyhle**  
 11:30 Panel Discussion

**BEEF SESSION V**  
**Cow-Calf/Feedlot Combined**  
**Is Preconditioning Doomed to Fail?**

- Friday, November 21  
 1:30 p.m.-5:00 p.m.  
 Court/Dell Quay Room GH  
 Wade Northington—Presiding
- 1:30 An Illinois Extension Veterinarian's Viewpoint—**Jay Brown**  
 2:00 A Kentucky Order Buyer's Viewpoint—**Dell King**  
 2:30 A High Plains Practitioner's Viewpoint—**Tim Jordan**  
 3:00 BREAK  
 3:15 A Michigan Practitioner's Viewpoint—**Arnold Hentschl**  
 3:45 Open Discussion  
 4:15 Open CPH Policy Meeting of Health Management and Preconditioning Committee

## **SPOUSE ACTIVITIES WELCOME**

We Kentuckians would like to take this opportunity to welcome you to the "Blue Grass" state in the heart of America. The center of activity will be on the banks of the Ohio River in rejuvenated downtown Louisville, Kentucky. This area of the city has the theatre district and many tourist attractions and shopping areas.

Tuesday evening we plan to have a slide presentation and welcome reception for you to explain what Louisville has to offer and aid in your planning your stay with us. During your stay in Louisville, "Home of the Kentucky Derby", we hope everyone gets to enjoy racing—either Harness racing at Louisville Downs or Thoroughbred racing at Churchill Downs.

The tours planned should give you varied exposure to the attractions of Kentucky and share some of our history with you. Two tours outside Louisville will expose you to the small urban areas and their attractions for tourists which is one of our major industries. Of course, Saturday's tour open to all A.A.B.P. attendees will be to the "Heart of the Blue Grass" and the horse farms in and around Lexington, Kentucky. This is truly a special event that all who attend will enjoy.

We plan a spouse hospitality room which will be a place to meet, play cards and chat before and after special events. We hope you will enjoy this area and your stay with us. Come on down and join us for a "Showcase of Kentucky."

Spouse Committee

E. S. Hall

M. D. Cox

## **SPOUSE ACTIVITIES**

### **Hospitality Room Carroll Ford GHE**

Wednesday, Thursday and til noon on Friday

Kentucky Auxiliary will host

Refreshments will be supplied

### **Tuesday 18th 7:00 — Opening Ceremonies**

### **Tuesday 18th 7:30-9:00 p.m. — Reception**

Slide presentation on Louisville by Marilyn Fox

Louisville Tours—18-25 minutes in length

Cheese tray/fruit

Soft drinks & coffee

Carroll Ford Room GHE

### **Wednesday 19th 9:30-3:00 — Tour 1**

Antique Shops of Shelbyville

\$20.00/person

### **Wednesday 19th 12:00-5:30 — Tour 2**

A Day at the Races

\$28.00/person

### **Wednesday 19th 1:00-3:30**

Stress Seminar

### **Thursday 20th 9:30-3:00 — Tour 3**

Bardstown, Kentucky

My Old Kentucky Home, etc.

Lunch

\$23.00/person

### **Thursday 20th 10:00-3:30 — Tour 4**

History & Horses

Louisville Stoneware

Kentucky Derby Museum

Lunch—Stallion Station

\$25.00/person

### **Friday 21st 11:30-2:00 — Luncheon & Style Show**

Presented by: Style Coordinator at Spencerian

College-models

\$12.00/person

### **Saturday 22nd 8:30 a.m.-5:30 p.m. — Tour 5**

Post Convention Tour

Kentucky Horse Park and Claiborne Farm

\$25.00/person

**In addition to the above. Spouse package tours of Louisville will be available.**

## **TOURS**

### **TOUR 1**

### **ANTIQUES & COUNTRY CHARM**

Join the American Association of Bovine Practitioners for an enchanting day in Shelbyville, Kentucky. You will enjoy the drive through the beautiful Bluegrass countryside to this charming town. You will browse in the Wakefield-Scearse Galleries which houses one of the finest collections of English antique furniture, rare silver and unique gifts. You may also want to visit other antique shops in the area. A delightful luncheon awaits you at the Colonel's Lady Restaurant. The Restaurant is located on the grounds of Colonel Sanders's old country home. This is a wonderful way to spend a leisure day!

Date: Wednesday, November 19

Time: 9:30 a.m.-2:30 p.m.

Cost: \$20.00 per person

### **TOUR 2**

### **CHURCHILL DOWNS RACING**

You can spend a fun-filled afternoon at Churchill Downs, the Home of the Kentucky Derby. From your vantage point in the Skye Terrace, better known as Millionaire's Row, you will view thoroughbred racing at its finest. This glass-enclosed section offers a limited menu for your luncheon pleasure. The betting windows are close by for added convenience. At the end of the

day, you will be assured of taking home some wonderful memories, so join your friends for the afternoon at Churchill Downs.

Date: Wednesday, November 19

Time: Depart at noon—Return after last race about 5:00 p.m.

Cost: \$28.00 per person Buffet furnished

Will be cancelled if we do not have 100 registrants

### **TOUR 3**

#### **MY OLD KENTUCKY HOME—BARDSTOWN**

Bardstown, Kentucky is located an hour south of Louisville. Here, Stephen Foster wrote our state song while visiting Federal Hill, better known as "My Old Kentucky Home". After a tour of the home, lunch will be served at Talbott Tavern. This establishment has never closed since 1779. The traditional Kentucky Hot Brown will be served. St. Joseph Cathedral, the oldest cathedral west of the Allegheny Mountains, is the next stop. Here you will see nine works of art by the Old Masters. Kentucky is the bourbon capital of the world, and Jim Beam's American Outpost will tell the story of bourbon, the only truly American Spirit, and of the Beam family who has contributed to its perfection since 1795. The only complete collection of Jim Beam decanters is on display here. History and a good time abound here!

Date: Thursday, November 20

Time: 9:30 a.m.-3:00 p.m.

Cost: \$23.00 per person

### **TOUR 4**

#### **HISTORY AND HORSES**

No trip to Kentucky would be complete without a tour of Churchill Downs, the "Home of the Kentucky Derby". A view of the new Derby Museum and the beautiful grounds of the track will delight the novice or most ardent racing fan. Lunch will be served in the Stallion Stakes Restaurant, adjacent to the Museum. Other stops will include Louisville Stoneware. This famous pottery is even used in the White House on informal occasions! Farmington will be the last stop. This elegant historic home was visited by Abraham Lincoln in 1841. Before this day is over, you will feel that you know the Louisville area!

Date: Thursday, November 20

Time: 10:00 a.m.-3:30 p.m.

Cost: \$25.00 per person

### **TOUR 5**

#### **POST CONFERENCE TOUR**

##### **Kentucky Horse Park and Claiborne Farm**

Kentucky Horse Park:

8:30 a.m. Depart Louisville

10:00 a.m. Arrive Lexington, 2 hour tour

12:00 noon Lunch

1:00 p.m. Leave Kentucky Horse Park for Claiborne, Paris, Kentucky

2:00 p.m.-4:00 p.m. Claiborne Farm Tour

5:30 p.m. Return to Louisville

This tour will appeal to a horse lover. Come let us show you the Blue Grass State at its best, and why Kentucky is known as the horse capital of the world.

We will begin at the Kentucky Horse Park in Lexington, where you will be welcomed at the entrance by the life size statue of the great "Man O War". You will be able to see all breeds of horses in the park. Stabled on the grounds are such great thoroughbreds as "Forego" and "John Henry"; the greatest pacer in history, "Rambling Willie," and "Imperator", the World's Champion Saddlebred.

Visit with farriers and harness makers at work and tour some of the farms where horses are still used as the main labor force.

This small tour didn't seem enough, so we added a thoroughbred breeding facility. Claiborne Farms in Paris, has been one of the main stays of the industry for many years.

Here you will visit such great horses as: Secretariat, Danzig, Devil's Bag, Spectacular Bid and Honest Pleasure to name only a few. There are many more for you to see. But one we must not forget is the "not so well known" Nijinski II. He has been near the top in producing foals that go on to race. Plus, he is the proud father of the stud colt that set the record sale price at the Keeneland sale last year at 13.1 million dollars.

Sign up early to be assured of seeing all these greats of the horse world. Bring your spouse, this is a tour no one will want to miss.

Date: Saturday, November 22

Time: 8:30 a.m.-5:30 p.m.

Cost: \$25.00 per person

All tours include transportation, guide, admission charges and lunch.

#### **SPOUSE LUNCHEON AND STYLE SHOW**

Presented by Style Coordinator at Spencerian College-Models.

Date: Friday, November 21

Time: 11:30 a.m.-2:00 p.m.

Cost: \$12.00 per person

### **SOCIAL EVENTS**

#### **Class-Kentucky Style**

Wednesday, November 19

7:00 p.m.-12:00 Midnight

Grand Ballroom GHE

An evening of good food and delightful entertainment. Enjoy a delicious meal of Kentucky beef with all the trimmings, served by the professionals of the Galt House.

After dinner sit back and enjoy one of the most unusual programs you have ever seen. It will be presented by the Berea College Dancers. This program will let you experience some of the Appalachian heritage through music and dance.

This group receives rave reviews no matter where they perform. They have been representing Berea College since 1937, and have traveled world wide presenting programs.

For those who feel energetic, participation is part of this groups program. Come, have a good time, get involved. This could be your chance to become a star before the evening ends.

Cost: \$28.00/person

### **North American Livestock Sale of Champions Steers, Lambs and Barrows**

Thursday, November 20

Fairgrounds—East Hall A & B

Cash bar, dinner, country & western singer and band 5:30 p.m. Buses start for Fairgrounds—leave every 15 minutes

Guests can begin eating on arrival—East Hall B

Dinner Menu: Prepared and served by:

Kentucky Pork & Beef Producers &  
Kentucky Dairymen

Pork Chops  
Ribeye Steak  
Baked beans  
Cole slaw  
Baked apples  
Cheese tray  
Dessert  
Drink

This promises to be an evening you will long remember. If you have ever eaten a pork chop, the Ky. pork producers say it was a fake, since the only real one is cut, and prepared by the Kentucky Pork Producers.

This is just the beginning of an unforgettable experience. Have a drink from the cash bar and listen to some music because the sale of champions is just around the corner. You will not believe the prices paid at this sale unless you get excited and buy one for yourself.

After the sale there will be a top country artist performing to soothe your nerves and set your toes tapping. Come whoop it up and have a good time and we will do everything we can to make this a most memorable night in Louisville.

Cost: \$20.00/person

Cash Bar-East Hall A

8:00-9:00 Sale of Champions—East Hall A

9:00-10:30 Country & western singer—East Hall A

10:30-12:00 Dance band—East Hall A

Buses to depart for hotels beginning at 9:00 p.m.

## **EXHIBITS**

The professional exhibits will be located in the Grand Ballroom Galt House East hereinafter referred to as the exhibit area.

The exhibits will be open Wednesday, November 19 at 9:00 a.m. and will close promptly at 1:00 p.m. on Friday, November 21.

Wednesday, November 19 . . . . . 9:00 a.m.-5:00 p.m.

Thursday, November 20 . . . . . 9:00 a.m.-5:00 p.m.

Friday, November 21 . . . . . 9:00 a.m.-1:00 p.m.

Please visit the exhibits whenever possible during the meeting.

**Luncheons** will be served in the exhibit area to all registrants and exhibitors at no extra charge on Wednesday and Thursday from 12:00 noon to 1:30 p.m. Tickets will be included in your registration package.

**Refreshments** will be served in the exhibit area during the regular meeting breaks scheduled from 10:00 a.m. to 10:30 a.m. and from 3:00 p.m. to 3:30 p.m.

## **BOARD OF GOVERNORS MEETINGS**

**Tuesday, November 18  
8:00 A.M.-1:00 P.M.**

**Tuesday, November 18  
3:00 P.M.-6:30 P.M.**

**Wednesday, November 19  
12:00 P.M.-1:30 P.M.**

**Thursday, November 20  
12:00 P.M.-1:30 P.M.**

**Collins Room GHE**





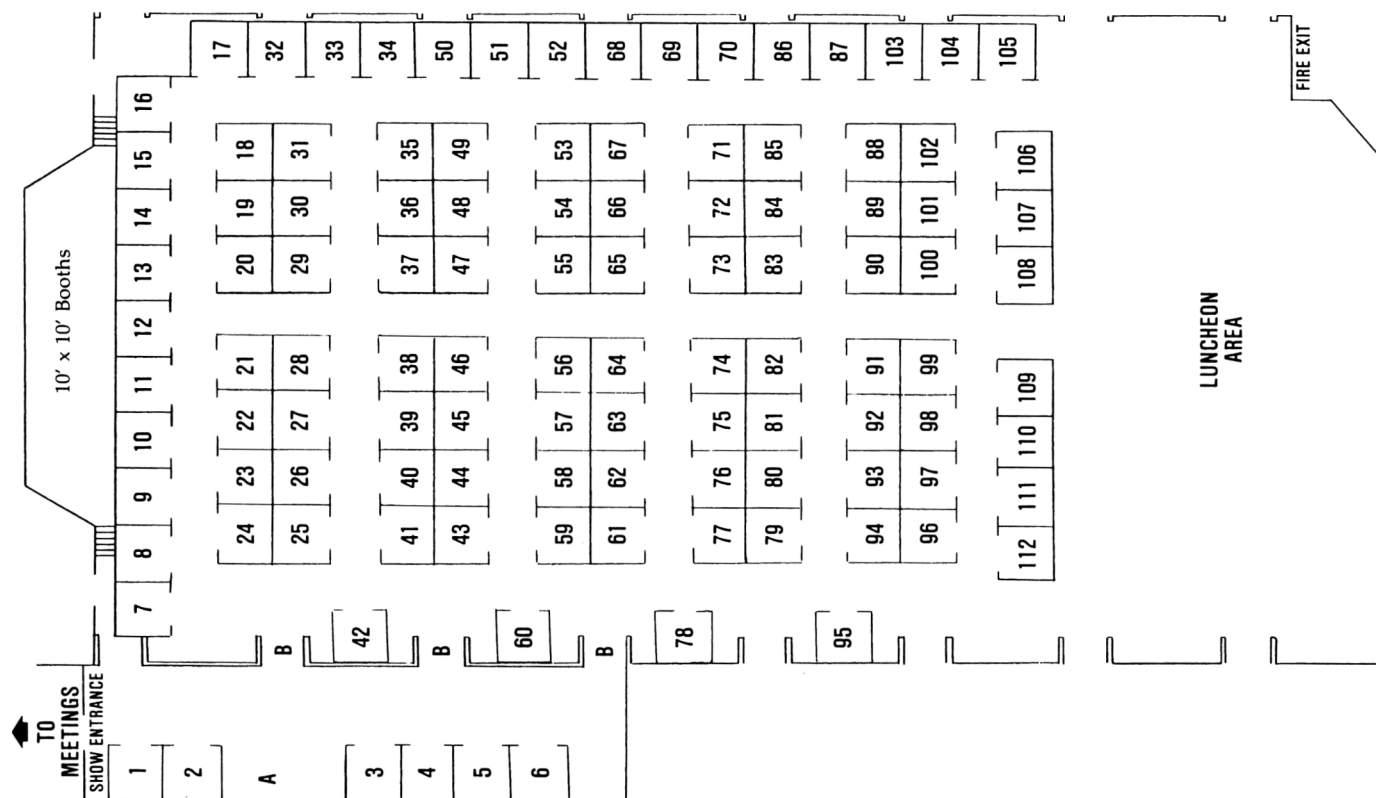
# 1986 AABP Conference Exhibitors

## EXHIBITS-Exhibit Hall

Please remember our exhibitors are supporting us at this meeting in a major way. Let's visit their booths and show them we appreciate their support. Visit them anytime they are open but especially during the two luncheons in the area.

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

## EXHIBIT FLOOR PLAN GRAND BALL ROOM GALT EAST HOUSE HOTEL



**Agri-Sales Associates, Incorporated**

212 Louise Avenue  
Nashville, TN 37230

Y-Text cattle identification tags and Gard Star insecticide ear tags. Full line of Red Ball waterproof footwear. Introducing some new Rubbermaid agricultural products and top quality grooming products.

**Albion Laboratories, Inc.**

101 N. Main, Box 750  
Clearfield, UT 84015

Albion Laboratories, Inc., will display a line of nutritional products, featuring Albion's patented Amino Acid Chelated Minerals, such as: Breeder Pac, Beef and Dairy Mineral, Mg-K-Lite, IMZ, Replamin Liquid, Replamin Bolus, etc. Technical staff will be on hand to assist.

**Alfa-Laval Agri., Inc.**

11100 North Congress Avenue  
Kansas City, MO 64153

This booth features the latest in milker test equipment by DeLaval. Scheduled maintenance of milking equipment is more important than ever and DeLaval is supporting this effort through our dealers. We also have the HerdMaster Computerized Herd Management Software operating at the booth. DeLaval features the most complete dairy herd management software available. Stop by and talk with us about test equipment and computer software. Also take a look at the new milking and feeding products offered by DeLaval.

**American Cyanamid Company**

1 Cyanamid Plaza  
Wayne, NJ 07470

American Cyanamid will be displaying its Cattle Health Products — Tramisol® Cattle Wormer, Warbex® pour on, Guardian™ Cattle Ear Tags, Vigilante® insecticide, Aureo S700® medicated premix and Aureomycin® medicated premix. Technical Service and Sales Personnel will be present.

**Animal Health & Nutrition**

(by Watt Publishing Co.)  
Sandstone Building  
Mount Morris, IL 61054

Animal Health & Nutrition is a monthly publication oriented to the large animal practitioner. Emphasis editorially is on health maintenance and the nutrition of all large animals.

**AVMA Professional Liability Insurance Trust**

P. O. Box 74221  
Chicago, IL 60690-8221

Here is the place to have your questions about malpractice or workers' compensation insurance answered by representatives of the AVMA Professional Liability Insurance Trust. Karen Katz, of Mack and Parker, as well as Dr. Jack Dinsmore, the Trust's representative, will be on hand to help you with potential claims or technical questions.

**Babson Bros. Co.**

2100 S. York Rd.  
Oak Brook, IL 60521

The display will consist of surge dairy farm equipment. The exhibit will also feature microprocessor controlled components and computerized dairy management systems.

**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.

**Bio-Ceutic Division**

2621 North Belt Hwy.  
St. Joseph, MO 64502

Introducing New Bar 3 Somnus (killed IBR-BVD-PI3/ *Haemophilus somnus*). Information regarding our direct BVD challenge data will be available. Also recently introduced Coli Guard 99, Oral Antiserum for *E. coli* scours in new born calves will be on display. Ask us about our 150 day Steer-oid Implants and about our Heifer-oid Implant. All Bio-Ceutic products are now available direct from Bio-Ceutic or your Bio-Ceutic Distributor.

**Bio-Zyme—Vita Ferm—Enterprises**

1231 Alabama  
St. Joseph, MO 64504

Pick up the latest, exciting nutritional research results on Vita Ferm conducted by qualified researchers. Complement your practice with the Vita Ferm nutritional programs, whereby your clients will have a guaranteed improvement in their bottomline by \$3 to \$5 for every \$1 they invest with you. Improve your income and services by complementing with Vita Ferm nutritional products—with guaranteed results. FREE SAMPLES!

**Bowie Mfg. Inc.**

313 South Hancock  
Lake City, IA 51449

Stop in and take a look at our new units for 1987! We will also be exhibiting the Bowie/Polaroid Instant Radiographic system.

**A. J. Buck & Son, Inc.**

10534 York Road  
Hunt Valley, MD 21030

A. J. Buck & Son will be displaying the latest large animal practitioner equipment, pharmaceuticals, biologicals, and apparel. Specialty items that we plan to demonstrate will be of great interest to attendees.

**The Butler Company**

4140 Fisher Road  
Columbus, OH 43228

American Association of Bovine Practitioners members and guests are cordially invited to stop by The Butler Company booths where the latest and most up-to-date hospital equipment and instruments will be available for your inspection. Also on display will be the largest variety of pharmaceutical and biological products available through an ethical veterinary distributor.

**Ceva Laboratories, Inc.**

10551 Barkley, Suite 500  
Overland Park, KS 66212

Please stop by and meet our representatives. Our full line of bovine products (including ERYTHRO®-200, the shipping fever antibiotic) and our extensive line of large animal biologicals will be featured this year. Technical bulletins on the reproductive hormones, CYSTORELIN® and SYNCRO-MATE-B®, will also be available. Our fluids, equipment, and sanitation products will be exhibited, too.

**Church & Dwight Co., Inc.**

469 No. Harrison St., CN 5297  
Princeton, NJ 08540

The Church & Dwight Co., Inc., manufactures ARM & HAMMER® brand sodium bicarbonate for ruminant feed. This product buffers the rumen, allowing for increased feed intake and milk production.

**Coopers Animal Health Inc.**

P. O. Box 167

Kansas City MO 64141

Coopers Animal Health Inc., will be featuring a variety of biologicals, pharmaceuticals, parasiticides and instruments for the large animal practitioner. Stop by our booth for information on our new line of Jencine BVD products that protect against both cytopathic and noncytopathic BVD strains. We will also be exhibiting our Expar Insecticide Ear Tag and the new EAS Sensor. Our representatives will be happy to assist you and answer any questions.

**Dairy Equipment Company (Dari-Kool and Bou-Matic)**

P. O. Box 8050

Madison, WI 53708

Dairy Equipment Company will display a 2030 Farm Computer, Activity Monitor, DecTrace Recorder, Air-Flow Meter, and The Flo-Star Claw.

**Diamond Scientific**

2538 S.E. 43 Street  
Des Moines, IA 50317

Diamond Scientific will exhibit their recently introduced vaccine products. These products are Horizon I (KBVD), Horizon II (KIBR-KBVD) and Horizon IV (BRVS-PI<sub>3</sub>-KIBR-KBVD). These Diamond Scientific killed vaccines are a new addition to the current product line. Diamond Scientific will also exhibit their syncytial vaccines, which include BRSV Vac, BRSV Vac 2, BRSV Vac 3, BRSV Vac 4 and BRSV Vac 9, as well as ECOLI-Guard for calves.

**Elanco Products Company**  
Lilly Corporate Center  
Indianapolis, IN 46285

Our exhibit features the products COMPUDOSE, RUMENSIN, and TYLAN Injection. COMPUDOSE is the implant with the unique longer-lasting payout. RUMENSIN, the beef industry's leading feed additive, is now cleared for dairy replacement heifers. TYLAN Injection is the fast-acting antibiotic for cattle and hogs which goes right to the site of infection.

**For-Most Inc.**  
Box 322

Hawarden, IA 51023

Our display will be our 450 Chute and our Tip-Chute. Both are new products and new in design. Stop in for a demonstration.

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

Fort Dodge Laboratories' exhibit will feature our high quality TRIANGLE BVD vaccines which are safe and will NOT contribute to post vaccinal wrecks. Representatives will be on hand to discuss TRIVIB 5L, our unique oil-adjuvanted vibrio-lepto vaccine for longer-lasting protection. Our CAL-DEXTRO products, with their unique bottle for simple and sterile administration, have the flexibility to treat milk fever, grass tetany and other mineral deficiencies encountered by bovine practitioners. Our quality line of NOLVASAN products supplies practitioners with powerful, yet mild solutions to bovine infections caused by microbial agents. Please stop by for more information.

**Grand Laboratories, Inc.**  
R.R. 3, Box 36  
Freeman, SD 57029

We will be featuring our expanding line of federally licensed bovine biologicals. Highlights will include Pili Shield™, our one-dose *E. coli* bacterin that is administered to the cow up to several months before calving to protect against neonatal *E. coli* scours. We will also introduce Vira Shield 2, our one-dose BVD vaccine containing cytopathic and non-cytopathic strains of BVD.

**Granite Division, Environmental Diagnostics, Inc.**  
P.O. Box 908, 2990 Anthony Road  
Burlington, NC 27215

Granite Division, Environmental Diagnostics, Inc., will present a new EZ-SCREEN Test Kit for penicillin. The EZ-SCREEN: PENICILLIN Test is simple, highly sensitive, inexpensive, and requires no instrumentation. The self-contained EZ-SCREEN System is comprised of QUIK-CARDS® (credit-card size) and all the necessary reagents. The test, when completed, produces a highly visible color change which indicates whether the sample contains levels at or above the designated sensitivity. EZ-SCREEN: PENICILLIN will detect levels of penicillin residues of 2 ppb (.003 I.U./ml.) in milk, plasma, serum, urine, tissue, water, or feed samples. Other EZ-SCREEN Tests available for the detection of antibiotic residues include: Chloramphenicol, Gentamicin, Neomycin, Sulfadimethoxine, Sulfamethazine, and Tylosin. Granite will also be exhibiting the CAST and LAST kits for the detection of any antibiotic residue or any sulfa residue. Also on display will be EXTENDA-LIFE Microbiological Media which has a shelf life of six months at room temperature.

**Haver**  
P. O. Box 390  
Shawnee, KS 66201

Haver will display their complete line of Biologicals and pharmaceuticals for bovine practitioners. Again this year, featuring the innovative analogues, ESTRUMATE® (cloprostenol) and HEIFEX®, now available for your client's beef and dairy herds and feedlot heifers.

**Hoechst-Roussel Agri-Vet Company**  
Rt. 202-206 North  
Somerville, NJ 08876

**Hoffmann-La Roche Inc.**  
340 Kingsland St.  
Nutley, NJ 07110

Roche Veterinary Products will feature their multi-specie antibacterial product ALBON (sulfadi-methoxine) in all dosage forms including 40% injection, bolus, SR bolus, soluble powder, and drinking water solution. Also on display will be Injacom injectable vitamins and Ipropran soluble powder. The Roche team of professionals invites your questions and comments.

**Ideal Instruments**  
401 North Western Ave.  
Chicago, IL 60612

Ideal Instruments will exhibit its products that have been standard to the bovine veterinary practitioner for 53 years. Pistol Grip Syringes, Balling Guns, Bovine Obstetrical Equipment are just a few of Ideals Quality Products that will be on display. Of special interest will be Ideal's new line of superior quality surgical instruments. We welcome your visit to our display.

**ImmuCell Corporation**  
966 Riverside St.  
Portland, ME 04103

ImmuCell will demonstrate its new RPT test for bovine milk progesterone. Representatives will be available to discuss both this product and soon-to-be released diagnostics for bovine infectious diseases.

**International Minerals & Chemical Corporation**  
P. O. Box 207

Terre Haute, IN 47808

The Veterinary Products Division of International Minerals and Chemical Corporation will feature RALGRO® brand or zeranol, an implant for beef cattle. RALGRO® provides the livestock producer with a means of maintaining a competitive position in the animal production sector of agribusiness. Dr. William N. Chandler and other technical representatives will be present to discuss the product and its uses.

**Jorgensen Laboratories, Inc.**  
2198 W. 15th St.  
Loveland, CO 80537

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.

**Kane Enterprises, Inc.**  
P. O. Box 360  
Sioux Falls, SD 57101

Displaying AG-TEK Veterinary Products, including the AG-TEK line of disposable O.B. gloves, AG-TEK Veterinary Apparel and the new 5cc SAFE-T-FLEX Syringe.

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

On display will be The Magrath Stock Shock Industrial Quality Fluidfeeders, Temperature Probe, Vetaspirator JR, Cattle Pump System, O-NO-MO, Lubricant Gel and Transfer Needle. A new item just available, the 10 ML repeater syringe. All brass chrome plated. Adjustable in 1/2 ml increments, with absolute dosage setting that stays in position, and a years' warranty.

**Molecular Genetics, Inc.**  
10320 Bren Rd. East  
Minnetonka, MN 55343

Molecular Genetics invites you to visit our booth where we will be featuring Genecol® 99 monoclonal antibody for the prevention of fatal *E. coli* scours, and our Coli-Tect™ 99 antigen test kit, an in-clinic test for the detection of enterotoxigenic K-99 *E. coli* in calves. Find out what the New Science in agriculture is all about.

**MSD AGVET**  
Division of Merck & Co., Inc.  
P.O. Box 2000  
Rahway, NJ 07065-0912

MSD AGVET representatives will be available to detail IVOMECS® 1% injection for cattle and swine (internal and external parasite control), EQVALAN® paste for horses (anthelmintic and boticide), TRESADERM® (dermatological solution) for dogs and cats, TBZ® cattle wormer, CURATREM® drench (cattle flukicide) and CORID® (coccidiostat) for cattle.

**Munks Livestock Sling Manufacturing, Inc.**  
1143 W. March Pt. Rd.  
Anacortes, WA 98221

An effective new aid to rehabilitate down and injured livestock will be exhibited. The sling is lightweight, durable, and easy to use. It brings a new concept to animal rehabilitation and recovery as it

aids in getting the animal up on its feet, regaining proper circulation, eating and drinking habits, and the restoring of normal bodily functions, while supporting the animal for extended periods of time. Invented, used and improved, and manufactured by farmers. See our complete line of products, including nylon hobbles, neck bands, and collars.

#### **NASCO**

901 Janesville Avenue  
Fort Atkinson, WI 53538

Nasco supplies farm and ranch items to customers throughout the U.S. and over 70 foreign countries from 2 locations, Fort Atkinson, WI, and Modesto, CA. Items such as cattle ear tags, showing and grooming equipment, animal marking equipment, artificial insemination supplies, veterinarian equipment, and many other items. A sampling of Nasco's line will be available for your inspection. Also available at our booth will be our Farm and Ranch catalog featuring our entire line of products.

#### **Norden Laboratories**

601 West Cornhusker  
Lincoln, NE 68521

Norden Laboratories manufactures biologicals and pharmaceuticals for the veterinary profession. By placing top priority on research and development, Norden consistently leads the industry with products like "Leukocell" (first feline leukemia vaccine), "Vibrin" (first bovine vibriosis vaccine), "PR-Vac" (first MLV pseudorabies vaccine), and "Vanguard CPV" (first MLV canine origin parvovirus vaccine). Stop by the Norden booth to discuss these and other fine Norden products.

#### **Osborn, an Essar Corporation**

P. O. Box 1590  
Fort Dodge, IA 50501

Osborn's fine line of veterinary products will be on display with informative product literature and Osborn representatives on hand to answer your questions. Osborn's line includes a wide range of products specially formulated for professional use by bovine practitioners. Stop by the booth and learn more about Osborn veterinary products.

#### **Pfizer, Inc.**

235 East 42nd St.  
New York, N.Y. 10017

#### **Pioneer Hi-Bred International, Inc.**

Microbial Genetics Division  
6800 Pioneer Parkway  
Johnston, IA 50131

Pioneer's Probiocin® brand Microbial Cultures are manufactured viable microbial cultures for specific uses in ruminants. Select strains of beneficial micro-organisms are prepared in a unique dehydrated form and are available in bolus, gel, and granular/dispersible forms.

#### **Pitman-Moore, Inc.**

P. O. Box 344  
Washington Crossing, NJ 08560

Pitman-Moore welcomes you to the 19th Annual Meeting of the American Association of Bovine Practitioners. We would like to invite you to visit our booth to view our latest accomplishments in the field of veterinary medicine, including PROGESTASSAY\* Milk Progesterone Test Kit. Our company representatives will be available to discuss our complete line of biologicals, pharmaceuticals, surgicals and diagnostics throughout the meeting.

#### **Porta-Vet Industries, Inc.**

110 Wood St.  
Hudson, IA 50643

Porta-Vet has designed a new unit specifically for the Dairy Practitioner. Stop by for quotations on updating your present unit. With the large influx of new veterinarians your present unit may never be worth more than it is now. We recondition these units and sell, deliver, and install these units throughout the United States and Canada.

#### **Priefert Mfg. Co.**

P. O. Box 1540  
Mt. Pleasant, TX 75455

Priefert All Steel One Man Squeeze Chute, with Priefert Combination Automatic-Manual Head Gates, and instant portability with our patented Wishbone Carriage. Priefert Galvanized horse and cattle corral panels.

#### **Professionals' Software, Inc.**

No. 1 Park Hills Plaza  
Effingham, IL 62401

The PSI Veterinary Practice Manager is a fully integrated, multi-user, office automation system. It's single-entry, menu-driven program was specifically designed for the IBM PC family and the veterinary profession (with input from over 1,000 veterinarians). With features such as accounts receivable, billing preparation of invoices and statements, reminder/recall notices, inventory programs, and income and doctor productivity analysis, it is easy to see why over 500 veterinarians have joined the PSI-IBM family. Please stop by our booth and discover the ease and simplicity of automating your practice.

#### **Pro Vet of Loves Park**

P.O. Box 2286  
Loves Park, IL 61131

We are a full line distributor with over 800 products available. We will feature new equipment, drugs and supplies. Stop by for your free catalogue.

#### **A. H. Robins Company, Inc.**

1407 Cummings Drive  
Richmond, VA 23220

A. H. Robins Company, Inc. Robins' will feature their *Pasteurella hemolytica* vaccine, PRECON-PH and their *Pasteurella multocida* vaccine, BOVICON-PM.

#### **W. B. Saunders Company**

West Washington Square  
Philadelphia, PA 19105

Saunders will have on display an up-to-date selection of their veterinary books and veterinary clinic. Do stop at our booth and visit with our representative.

#### **Schering Animal Health**

1011 Morris Avenue  
Union, NJ 07083

Schering extends a hearty welcome to all attendees of the 19th Annual Conference for Bovine Practitioners. Please stop by the Schering booth for your FREE convention gift and ask our Sales and Technical Services personnel about our new PILIGUARD Pinkeye 1 (for 1 dose pinkeye protection), SCOURLYTE, our exclusive new diamylex with electrolytes for improved scours management, and a new NAQUASONE promotion to save your clients' money.

#### **Solvay Veterinary, Inc.**

P. O. Box 7348  
Princeton, NJ 08540-0130

Our representatives will be on hand to discuss such quality items as Panolog®, Vetsulid, Xenodine®, Equipoise®, and Weck®.

#### **Syntex Animal Health, Inc.**

4800 Westown Parkway, Suite 200  
West Des Moines, IA 50265

Syntex Animal Health, Inc., presents a line up of important products for the bovine practitioner including: Synovex® S implants for steers; Synovex® H implants for heifers; Synovex® C, the only implant that has been specifically formulated for calves, including heifer calves that may be used for breeding in the future; Bovilene® (fenprostalene) for estrus synchronization in both natural service and AI programs and Bovilene® for managing the pregnant feedlot heifer; plus numerous other antibacterials and anthelmintics.

#### **TechAmerica Group, Inc.**

P. O. Box 1159  
St. Joseph, MO 64502

Drop in at the TechAmerica Group, Inc., booth and let's talk about the quality products offered by our company. Whether it be the everyday staples of your trade—pharmaceuticals—or some of our highly advanced biologicals such as Premier Killed BVD vaccines, we have something to show you. No other line offers you everything you need for your practice pharmaceuticals, diagnostics, insecticides, and biologicals. TechAmerica—the complete line.

#### **3M/Animal Care Products**

3M Center, Bldg., 225-3S-05  
St. Paul, MN 55144

Animal Care Products/3M is exhibiting CONTROL Concentrate Teat Dip, TEAT SHIELD WITH GERMICIDE, the PROMPT Veterinary Sensitivity Standardizing System, LEAKER SEAL First Aid Teat Tape, VETCAST 2 Veterinary Casting Tape, the 3M Rare Earth Veterinary X-Ray System, VETRAP Bandaging Tape and other products designed for veterinary use.

**Torpac Limited**  
84 Angus Drive  
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New developments in veterinary size EMPTY GELATIN CAPSULES and capsule FILLING MACHINERY are on display. The FILLING MACHINE will make hand filling capsules a method of the past. The CAPSULES have been improved for easier filling and administration. Stop by for free samples of our capsules that are available from national distributors and to view the capsule filling machinery. Information on our support program for research on new capsule uses is also available.

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Our representatives will discuss the prostaglandin indicated for more uses than any other—Lutalyse (dinoprost tromethamine). Our representatives will answer questions on the use of Lutalyse in Dairy or Beef synchronization using A.I. or bulls, treatment of metritis, and abortion of feedlot or mismated cattle.

**Veterinary Concepts, Inc.**  
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**VETERINARIANS CAN WIN PRIZES  
BY VISITING THE EXHIBITS  
RULES AND DETAILS OF THE  
"BOVINE GIVEAWAY"**

**Prizes:** Ten (10) at \$50.00 each.

**Eligibility:** All veterinarians registered at the AABP conference.

**Rules:**

1. Business cards will be the drawing ticket. Bring 60 business cards and visit the exhibits. Each exhibitor will have a milk bottle, provided by the AABP, into which these business cards will be placed.
2. The AABP Board of Directors will hold a drawing to decide the ten bottles from which the business cards will be drawn.
3. The main drawing will be held at the Friday noon luncheon and annual business meeting of the AABP. At this time, one business card will be drawn from each of the lucky ten bottles. This will be limited to one prize per veterinarian. Winners need not be present to collect.
4. Business cards and milk bottles will become the property of the exhibitor in whose booth the bottle was placed, after the drawing.

**Veterinary Learning Systems Co., Inc.**  
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Lawrenceville, NJ 08648

Publisher of *The Compendium on Continuing Education for the Veterinarian*, North American Edition of *Equine Veterinary Technician*—all respected, refereed journal articles in a practical format. Optional continuing education.

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Featured at the VIRBAC exhibit are EPI-Lock™—an innovative semi-occlusive polyurethane wound dressing; SOLUTET™—R 5L—a concentrated advanced replacement solution which dilutes to five liters of ready-to-use solution; 10-Liter I.V. Bag—designed to hold and administer up to ten liters of I.V. solution; CAGE-MAGNET—a rumen magnet which attracts metal and traps it inside a cage to reduce irritation to the reticulum; SENSIBLE SOLUTIONS—the rectangular, shatterproof I.V. solution system; I.V. Sets and BLOOD COLLECTION and BLOOD ADMINISTRATION EQUIPMENT.

**AABP 1986  
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**Seminar Coordinator**  
Dr. Don Hudson

**Scientific Session Coordinator**  
Dr. Joe Manspeaker

**Dairy Sessions**  
Dr. Tom McDaniel

**General Sessions**  
Dr. Larry Hutchinson

**Beef/Cow-Calf**  
Dr. Duane Miksch

**Beef Feedlot**  
Dr. Larry Hollis

**Research Summaries**  
Dr. Craig Thatcher

**Practice Tips**  
Dr. Jerome K. Harness

**Continuing Education Liaison**  
Dr. Tom Fuhmann

**Local Arrangements Coordinator**  
Dr. Clenon Turner

**Local Arrangements Consultant**  
Dr. Jenks Britt

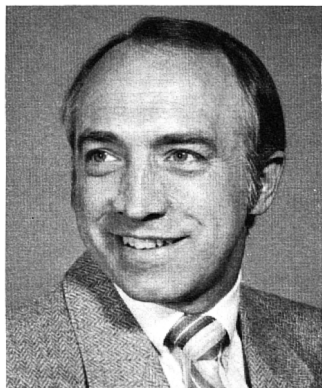
**Local Arrangements**  
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Dr. Elaine Painter

**Spouse Program**  
Dr. Ed Hall  
Dr. Douglas Cox

**Post Convention Tours**  
Dr. Phillip Hayes  
Dr. Larry Cole

**Exhibits Chairman**  
Dr. Sam Hutchins, III

# AABP Officers



## President

Neil G. Anderson  
D.V.M.  
Cheltenham,  
Ontario, Canada

Dr. Neil Anderson was born on a dairy farm in Hamilton, Ontario in 1944, one of six sons and three daughters. His father continues to milk his cows daily even at his young age of 77 years.

Following graduation from the Ontario Veterinary College in 1967, Dr. Anderson engaged in large animal practice in Brampton for seven years in association with Dr. G. D. Stirk and then moved to Cheltenham where he developed a multiperson practice.

He is a member of the Ontario Veterinary Association, the Society of Ontario Veterinarians, the Ontario Bovine Practitioners, and the AVMA. He has served as program chairman for the OVA annual conference, and seminar chairman and program chairman for the AABP conference. He has been active in 4-H, Air Cadet programs, and the Brampton Flying Club.

Dr. Anderson's hobbies include photography, canoe trips, and recreational flying. He is trying to master playing the banjo which he purchased some years ago.

In 1983 Dr. Anderson sold his practice and began work for the Health Management Section, Animal Industry Branch, Ontario Ministry of Agriculture and Food in Guelph. He is currently pursuing graduate studies in epidemiology at the University of Guelph.



## A Message From the President

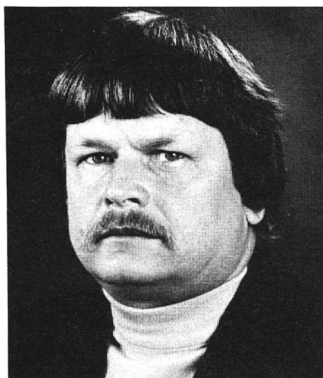
It has been an honour and a pleasure for me to serve as President of the American Association of Bovine Practitioners. The Association's strength has developed from the tireless contributions of the members of the executive, the board of directors, the standing committees, and the volunteers organizing the annual conference.

We should take great pride in our accomplishments and our strengths. The *Bovine Practitioner*, with Eric Williams as editor, is recognized as the international communication medium for bovine practitioners across the world. Our AABP delegates represents us very well, voicing bovine practitioners' opinions to cattlemen's associations, the National Mastitis Council, AVMA, and Washington. The work of Harold Amstutz has been a key strength of AABP for nearly two decades. A job well done, and very much appreciated. We look forward to Harold's help for years to come.

To ensure continued growth and perpetual strength, an evaluation of AABP was begun by Glen Hoffsis. Bob Keith, chairman of the committee, concluded the American Society of Association Executives' evaluation report was a valid and valuable AABP planning document. The committee's report will be the foundation upon which future Boards will deliberate and I am confident their actions will ensure further strengthening of our association.

Our annual conference is a major strength of the AABP and this year's Louisville meeting has been well prepared by George Washington and his committees. Sam Hutchins' efforts bring continued faithful industry support from exhibitors at our annual meeting. Be sure to attend both scientific sessions and exhibits. Bring a colleague. Enjoy the hospitality and the many blessings of AABP membership.

Neil G. Anderson, D.V.M.  
President



## President-Elect

**George Washington**  
D.V.M.  
Purcellville, Virginia

**Dr. George Washington**, Purcellville, Virginia, is the new President-Elect of the AABP. Born in 1940 in Lovettsville, Virginia, on a working farm, George received his B.S. degree from V.P.I. in 1962. In 1966, he obtained the D.V.M. degree from the University of Georgia. After serving two years in the United States Army, he began practicing veterinary medicine in his local county in 1968. Today he is the President and senior member of the Loudoun Veterinary Service, Inc., an active four person, large and small animal practice.

Specializing in dairy practice, Dr. Washington is a member of the Shenandoah Valley Veterinary Conference, and served as President in 1972. He has been a member of the VVMA since 1967, and served on the Board of Directors from 1976-1985. In 1983 he was the President of the VVMA. He represented District II of the AABP since 1979. He is a member of the AVMA, and served on the Extra Label Task Force. He is now a member of the FAVOR Task Force.

Dr. Washington is active in community projects. He is a 4-H Club leader, the Secretary of the Planter's Club of Loudoun County, and is a member of the Purcellville Optimist Club serving as Treasurer in 1982-83, and as Scholarship Chairman in 1984. He is on the Advisory Board of the Northern Virginia Community College, Animal Science Department.

Putting bovine interests aside, he enjoys fishing with his fourteen year old son, Phillip. He excels in the art of cooking, and each spring he hosts a barbeque picnic for dairy farmers and other clients.

Dr. Washington is the Program Chairman for the 1986 AABP Convention.



## Vice President

**Donald B. Hudson**  
D.V.M.  
North Platte, Nebraska

**Dr. Donald B. Hudson**, North Platte, Nebraska, is the new Vice President.

Dr. Donald Hudson is Associate Professor and Extension Veterinarian at the University of Nebraska West Central Research and Extension Center at North Platte, Nebraska.

A native of Colorado, Dr. Hudson attended Colorado State University where he received his B.S. degree in Animal Science and his D.V.M. degree in 1954 and 1960, respectively.

Following graduation from Colorado State University, Dr. Hudson was the senior member in a three-man veterinary practice in Benkelman from 1960 until 1976 when he joined the Institute of Agriculture-Natural Resources.

Dr. Hudson is the Nebraska beef cattle and equine specialist. Working with veterinarians, ranchers and farmers, he is conducting investigations on disease problems found in the field in conjunction with the Veterinary Science Laboratory at the West Central Research and Extension Center.

Dr. Hudson has served as alternate delegate to the American Veterinary Medical Association and is a member of the Journal of the AVMA Publications Committee; a Director and now Vice President of the American Association of Bovine Practitioners; former Chairman, Nebraska Board of Examiners of Veterinary Medicine and Surgery; and Past President of the Society of Theriogenology. He has served on the Board of Directors and is on the C.E. Committee of the Nebraska Veterinary Medical Association; District Director, American Association of Extension Veterinarians; American Association of Equine Practitioners; American Academy of Veterinary Consultants; and a member of the Inter-Industry Committee on Pre-conditioning; he serves on the Animal Science Committee for the Nebraska Stock Growers Association; and is co-leader of the Integrated Reproductive Management Program in Nebraska.

Dr. Hudson has authored or co-authored the following publications: 14 journal and symposium articles; 13 extension publications; 12 industry publications; and he has given approximately 65 scientific



presentations to veterinarians.

Dr. Hudson will be on advanced training leave this fall at Colorado State University completing work on a Master of Science degree in Clinical Medicine with emphasis in bovine theriogenology. His ultimate goal is to become a Diplomate of the American Col-

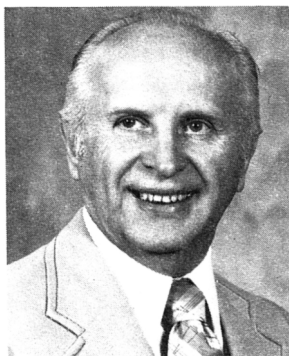
lege of Theriogenologists.

Dr. Hudson and his wife, LaVonne, reside at North Platte. They have two children in college—Nick, University of Wyoming, Laramie, Wyoming, and Marta, School of Nursing, Fort Hayes State University, Hays, Kansas.

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## Executive Secretary-Treasurer

Harold E. Amstutz,  
D.V.M.  
W. Lafayette, Indiana  
Past President, World  
Association for Buiatrics  
and Alternate Delegate  
to the AVMA.

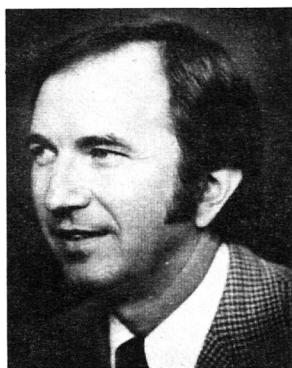


## AABP Advertising Manager

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



## AVMA Delegate



James A. Jarrett,  
D.V.M.  
Rome, Georgia

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## New Director



Dr. Richard E. Shirbroun, Coon Rapids, Iowa, is the new director for District 6.

Dr. Shirbroun was born in Coon Rapids in 1929.

He received the D.V.M. degree from Iowa State University in 1952 and served in the U.S. Air Force as Base Veterinarian in Elmendorf Air Force Base, Anchorage, Alaska, from 1952 until 1955 when he returned to general practice in his home town.

Dr. Shirbroun is the Immediate Past President, Iowa Veterinary Medical Association, and has served on numerous committees of the IVMA. He is past president, Iowa State University Veterinary Medical Alumni Association, of which he is a life member, member ISU Cyclone Club—"250 Club"; Eastern Iowa VMA; Southwest IVMA; Interstate VMA; Iowa Cattlemen's Association; Past President, Iowa Suffolk Sheep Assoc.; Past President, Iowa Limousin Assoc.

Dr. Shirbroun is a member of the AVMA and is an Alternate Delegate, AVMA House of Delegates; Trustee, AVMA Professional Liability Insurance



Trust (1986); AABP; Society for Theriogenology; National Cattlemen's Assoc.; Rotary Club (Past President); United Methodist Church; Past President, Coon Rapids Medical Center; and Community School Board of Directors.

In 1975, Dr. Shirbroun received the Premier Breeder Award from the Iowa Limousin Association and in 1980 an award for outstanding service to the Carroll County cattle industry. In 1986 he received the VMA President's Award.

Dr. Shirbroun's practice is primarily beef cattle with nutrition and reproduction being of special in-

terest. Artificial insemination was initiated in 1955 and several clients are at present involved in embryo transfer programs.

Dr. Shirbroun and his wife Treva were married on September 9, 1951. They have three children; Randal, who is in practice with his father; Camille has a degree in animal science and employed by Swine Genetics Ltd., Cambridge, Iowa; and James, an animal science and agricultural journalism major and a graduate of Garrett Evangelical Theological Seminary, Evanston, Illinois, is associate pastor, Immanuel United Methodist Church, Des Moines, Iowa.

## IN THE NEWS

The following AABP members were elected to councils and committees at the AVMA Annual Convention in July:

**Dr. William V. McElroy, Lamoni, Iowa** — Council on Veterinary Service (6-year term)

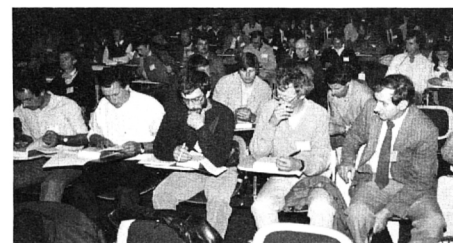
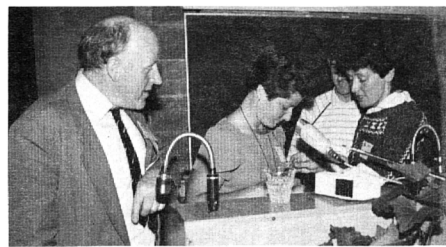
**Dr. Dan W. Upson, Manhattan, Kansas** — Council on Biologic and Therapeutic Agents (6-year term)

**Dr. Eric I. Williams, Stillwater, Oklahoma** — Council on Public Relations (re-elected to a 6-year term)

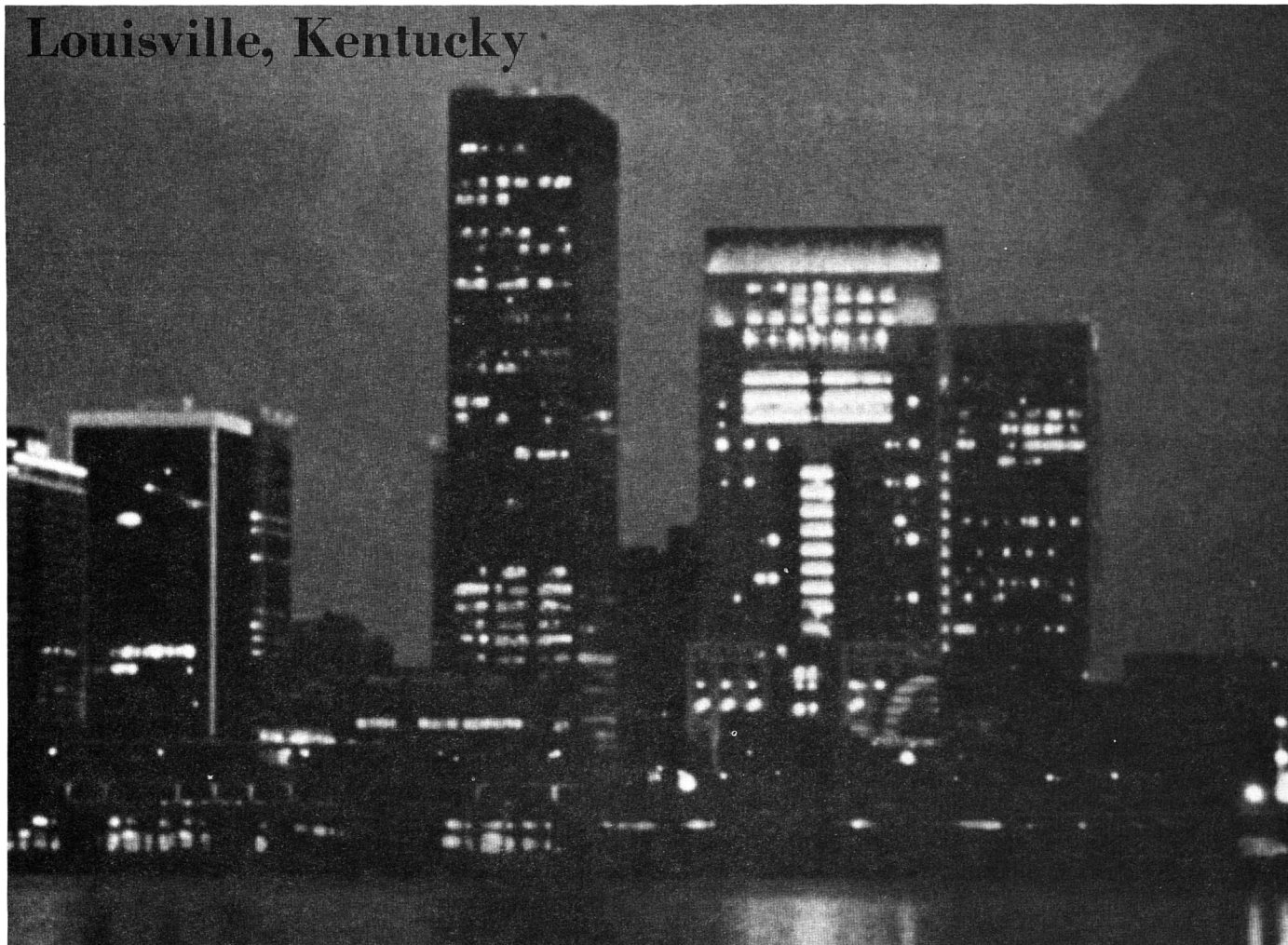
**Dr. M. T. Szatalowicz, Stanley, Wisconsin** — House Advisory Committee (3-year term)

**Dr. Joe M. Dixon, Baton Rouge, Louisiana** — House Advisory Committee (3-year term)

## WAB Dublin Congress (see also pages xxiii-xxv)



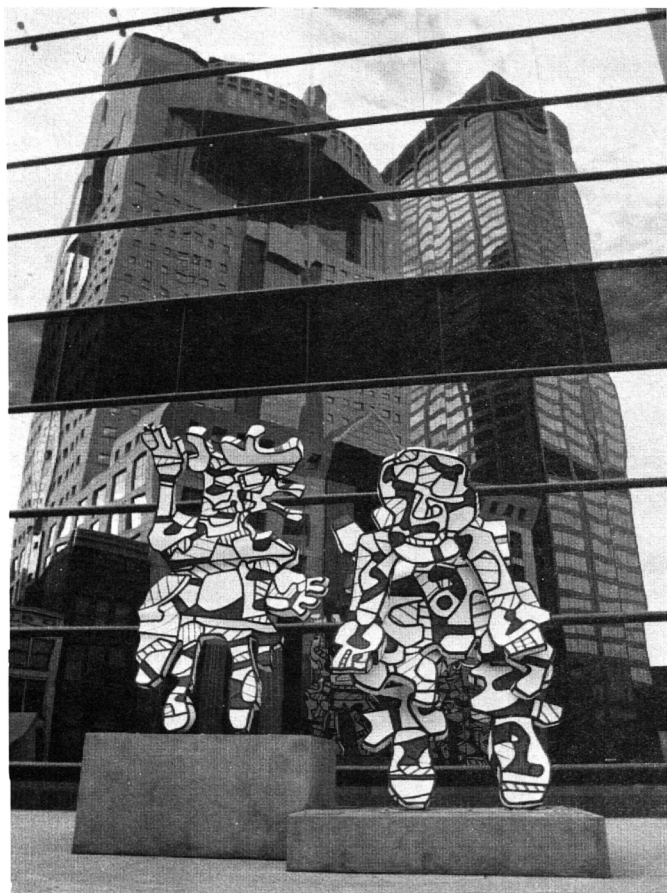
## Louisville, Kentucky



Louisville was one of the first cities of the American West, settled in 1778 by Gen. George Rogers Clark and his small army during the American Revolution. "The Town of Louisville (Kentucky) at the Falls of the Ohio" in Jefferson County, Virginia, was established by the Virginia Legislature in 1780, the town being named "Louisville" in honor of King Louis XVI of France in tribute to French aid during the Revolution. Louisville's location at the Falls made it an important transshipment and distribution point on the Ohio River, the main artery of civilization moving from the Seaboard states to the developing American West and the South. People of varied nationalities converged at Louisville, bringing their individual cultures. Some were wealthy and influential; others were seeking wealth. Each left his imprint on the development of the city. Early in its history, Louisville established an institution of higher education, the University of Louisville, which marked its 175th anniversary in 1973.

The city's strategic location at the point where the first north-south rail routes crossed the Ohio made it an important Union supply point during the Civil War and led to the rapid development of manufacturing in the post-war years. Louisville today is the center of an urban region of nearly one million people, with a diversified industrial base that ranges from Bourbon to home appliances, from chemicals to automobiles, trucks and tractors, from cigarettes to plumbing equipment. Increasingly, the city is becoming home base for corporations whose operations extend across the U.S. and regional headquarters for many others. This development is reflected in the changing skyline of downtown Louisville, where new high-rise towers are part of a sparkling redevelopment of the riverfront, the site of the city's beginnings over 200 years ago.

*Courtesy of Rebecca Sallee, Communications Director*



*Churchill Downs — home of the 112 year old Kentucky Derby, known around the world as the "Run for the Roses". Racing is scheduled from late April through June and October through November.*

*Humana building as reflected in the Kentucky Center for the Arts, three dimensional sculptures, cost \$60 million to build this international health care company's corporate headquarters with a rectangular pink marble and granite tower. Humana Inc., last year put Louisville in the national spotlight with its artificial heart program.*

## Kentucky Agriculture

*"Let us never forget that the cultivation of the earth is the most important labor of man."*

Daniel Webster, Jan. 13, 1840

From prehistoric times to the present, Kentucky's soil and what it grows and nourishes have played vital roles in the history and economy of the Commonwealth.

Because the fertile soil grew an abundance of food, herds of buffalo, moose, elk and deer flourished before the pioneers arrived to settle the wilderness. These animals, in turn, attracted Indians to the "Great Meadow" to hunt game.

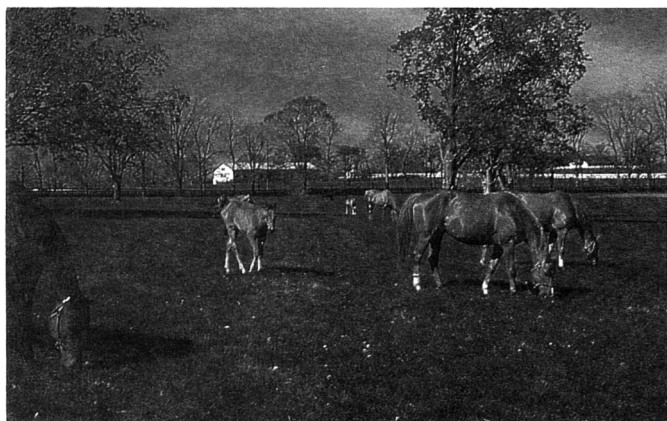
As explorers from the colonies came into Eastern Kentucky, they sent back glowing reports of the rich, fertile land and the game they had found.

"A richer and more beautiful country than this I believe has never been seen in America yet," wrote frontier scout George Rogers Clark in 1775. Settlers

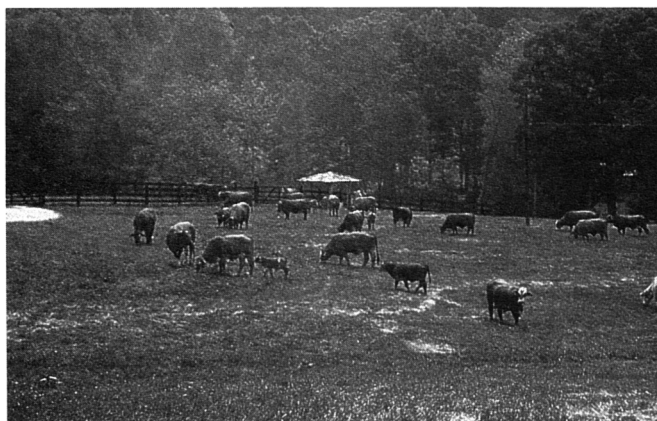
followed his enticement, and in 1792, Kentucky joined the Union as its 15th state.

Most Kentuckians were involved in raising corn, tobacco, vegetables, herbs and livestock. By 1800, commodity trading between Kentucky and the other colonies totaled \$2.25 million for the state. More markets for agricultural products opened along the state's waterways with the invention of the steamboat.

Burley made up a small part of the 53 million pounds of tobacco which Kentucky produced in 1839. Then, in 1865, a successful crop of white burley, a burley plant mutation, changed the tobacco industry. White burley quickly replaced red burley in central Kentucky because it harvested quickly, cured more rapidly and could be brought to market quickly.



*Photo courtesy of Dr. Miksch, Extension Veterinarian*



*Photo courtesy of Dr. Miksch, Extension Veterinarian*

Burley saved many a farmer caught in the middle of the Civil War. Farm families in the state teetered on the edge of bankruptcy as they put their lives and farms back together after the war.

Farmers joined together to find solutions to these common problems. They formed farming groups which eventually led to a strong political party, the People's Party. Supporters demanded tariff reform, higher prices for farm products, farm credit, agriculture schools and a new state constitution.

**The political power of Kentucky farmers was proved strong when the Legislature adopted a new constitution in 1891.**

In the early 1900s, Kentucky farmers used their united power again to reform the marketing of dark tobacco. Farmers in Western Kentucky were angered by the monopoly held by tobacco firms buying their crops. Bands of farmers led raids and burned warehouses, barns and fields of growers who sold to the monopoly.

These raids, known as the Black Patch War, broke the monopoly and improved selling conditions for farmers by causing the adoption of an auction system. This system is still used for selling tobacco.

The Depression of the 1930s hit Kentucky farmers as hard as it hit people everywhere else in the country. Many were forced to leave their small farms and head for work in the cities. They found work on road projects set up by the federal government for the unemployed.

During World War II, Kentuckians went back to the farms. Once again they produced the necessary food, fibers and materials for the fighting troops abroad as well as for the rest of the nation.

Between 1959 and 1974, a big change occurred in the operation of Kentucky farms. Many farmers switched from planting crops to raising livestock. Less acreage was devoted to tobacco. Fewer people and more machines were doing the work on the farm.

An excellent billion-dollar burley crop in 1982 and another in 1984 sandwiched a poor 1983 crop ravaged by extremes of wet and drought. The mid-eighties are being highlighted by farmer and industry efforts to save the tobacco program in the face of dwindling demand, foreign competition and disinterest at the Federal level.

In addition to battling the elements, Kentucky farmers and farm leaders have joined their Congressional representatives and Kentucky Agriculture Commissioner David E. Boswell in the fight to maintain reasonable supports and programs for agriculture in the 1985 Federal Farm Bill.

**Kentucky's farmers have become a combination of highly skilled technicians and executives. They are learning they must manage the business well if they are to survive the pitfalls over which they have little control.**

*Information provided by the Kentucky Department of Agriculture, David E. Boswell, Commissioner.*

## Attend The American Association of Bovine Practitioners Nineteenth Annual Conference

Louisville, Kentucky • November 18-21, 1986 • Specialty Seminars November 15-20





## XIV WORLD CONGRESS ON DISEASES OF CATTLE

(dedicated to the memory of Dr. Harold J. Greene)

August 26-29, 1986

Dublin, Ireland



*The late Dr. Harold J. Greene*



*Dr. Kevin O'Farrell, Dr. Espinasse and Mr. Patrick Hegarty, T.D.*

The XIV World Congress on Diseases of Cattle was held at Trinity College, Dublin, Ireland, on August 26-29, 1986. The Congress was organized by the Irish Cattle Veterinary Association in collaboration with the World Association for Buiatrics (WAB).

"The ambition to hold this prestigious international event in Ireland was hatched and promoted by the late Harold J. Greene," according to an editorial in the July/August 1986 issue of the *Irish Veterinary Journal*. Unfortunately, Dr. Greene died in January, 1986 following a heart transplant. He was a Senior Lecturer in Veterinary Pathology, Veterinary College of Ireland, Dublin. Dr. Michael Monaghan assumed the duties of Congress Secretary and Chairman, Scientific Program. Dr. Kevin O'Farrell was Chairman, Organizing Committee; Dr. P. J. Hartigan, Editor, and Dr. P. A. Murphy a bovine practitioner, were also members of the organizing committee.

Trinity College located in the heart of Dublin city, was an excellent venue for the Congress. Ireland's oldest university, established in 1591, its historic walls, cobblestone squares and green, tree-lined playing areas, provided a reassuring and comforting insulation from the hustle and bustle of Dublin everyday life outside.

Dr. J. Espinasse, France, President, World Association for Buiatrics, presided at the Board of Directors meeting on Monday evening, August 25. The Board unanimously accepted an invitation from the American Association of Bovine Practitioners (AABP) to hold the 1992 Congress in Minneapolis,

Minnesota, in conjunction with the AABP's 25th anniversary meeting. The resolution was also unanimously adopted at the WAB annual business meeting on Friday morning, August 29. The invitation was extended by Dr. Harold E. Amstutz, AABP executive secretary-treasurer, on behalf of the AABP and by Dr. Robert Dunlop, Dean, College of Veterinary Medicine, University of Minnesota, for the host city.

The official opening ceremony for the Congress was held at the National Concert Hall on Tuesday morning, August 26, when Mr. Patrick Hegarty, T.D., Minister of State, Ministry of Agriculture, deputized for Mr. Austin Deasy, T.D., Minister of Agriculture, as guest speaker. Attendance at the event was severely curtailed because of the aftermath of Hurricane Charley which hit the Dublin area the previous day. Mr. Hegarty was also the host at a state reception for Congress participants at the Royal Hospital, Kilmainham, Dublin, on Tuesday evening.

Over 400 papers were submitted for the Congress, with 270 being accepted on topics which included bovine abdominal surgery, rumen disorders, parasitology, herd health, mastitis, nutrition, and metabolic disorders, reproduction, lameness, respiratory, congenital, and genetic diseases, enteric disorders, and several miscellaneous papers. Thirty posters on key areas of animal health and diseases were also presented. The keynote speakers were Prof. Dr. G. Dirksen, Munich, W. Germany; Prof. J. Espinasse, France; Dr. Horst Leipold, USA; Dr. Otto

Radostits, Canada; Dr. Gudbrand Bakken, Norway; Dr. Robert Whitlock, USA; Dr. Maurice Allen, United Kingdom; Prof. James Roche, Dublin; Dr. Dirk Peterse, Holland; and Dr. Joe Sreenan, Dublin.

The Congress was attended by 800 veterinarians and over 200 accompanying persons from 35 countries which included the Republic of Ireland, 200; United Kingdom, 200; USA, 100; Republic of West Germany, 100; France, 150; Spain, 40; Switzerland, 40; Denmark, 20; Sweden, 20; Norway, 20; Netherlands, 80; Israel, 18; also USSR, Poland, Lybia, Japan, Brazil, Australia, New Zealand, Canada, and others. Simultaneous translations were provided in English, German, and French.

The Congress banquet, attended by 240 participants, was held in the magnificent Dining Hall, Trinity College, on Thursday evening, with Dr. Kevin O'Farrell presiding. Mrs. Harry Greene was presented with a bouquet in honor of her husband and received a standing ovation.

Tours for accompanying persons visited Georgian Dublin, the Boyne Valley, and the Curragh of Kildare.

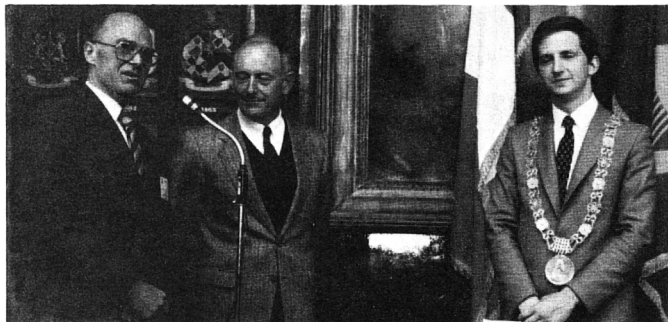
The 1988 WAB Congress will be held in Palma de Mallorca, Spain, in mid-October, while the 1990 Congress venue will be Salvador (Bahia), Brazil, S. America.

The Dublin Congress will be remembered by the large number of participants from around the globe as an exceptionally well-organized and conducted meeting in the face of many obstacles on the way. In the July issue of *Irish Veterinary News*, the editor called on Irish veterinarians to "prove that we are the Ireland of the welcomes and extend the hand of friendship and help to our overseas visitors. Build those bonds of friendship which will enrich us all for years to come. We must do our best to honor that quiet soul who will attend this congress in spirit only —Harry we miss you." Their mission was accomplished indeed in the true meaning of "Cead mile failte"—a hundred thousand welcomes!



Copies of the two-volume Proceedings of the Congress can be obtained from Dr. M. Monaghan, Faculty of Veterinary Medicine, University College, Ballsbridge, Dublin 4, Ireland, price 30 Irish pounds (approx. \$40 inclusive of mailed).

The Fifth Symposium on Diseases of the Ruminant Digit was held in Dublin on August 23-24. Copies of the Proceedings are available from Dr. A. David Weaver, Department of Veterinary Medicine and Surgery, College of Veterinary Medicine, Columbia, MO 65211. U.S.A.



Prof. M. Stober, WAB Secretary, President J. Espinasse and Deputy Mayor Michael Mulcahy.



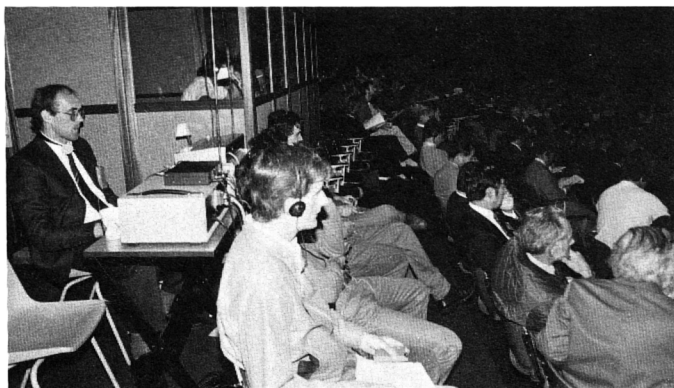
Mrs. Greene received a bouquet of appreciation.



Pre-Opening Ceremony Concert at the National Concert Hall, Dublin, by the Artane Boys Band.



Dr. P. A. Murphy, Dr. Harold Amstutz, Dr. Kevin O'Farrell, Deputy Mayor Michael Mulcahy, Dr. Michael Monaghan, Prof. Espinasse and Dr. P. J. Hartigan.



*Congress Participants "Tune In"*



*WAB Board of Directors*

## Pre-Congress Tour

A group of 23 bovine practitioners and their spouses traveled to Ireland early for a week's tour of the west and south region, organized by Mrs. Judy Samuelson, International Tours, Manhattan, Kansas, in collaboration with Passion Tours, Dublin. In addition to the beautiful scenery of the Emerald Island, the group enjoyed a medieval feast in a castle, a tour of the ring of Kerry, an impromptu visit to a veterinary clinic in Sligo and, of course, kissing the Blarney Stone!

A most interesting day was spent on August 22, starting with a bus ride from gorgeous Killarney via Cork to Fermoy to visit the Moorepark Research Centre. Established in 1955, the Centre is responsible for dairying and pig husbandry research under five departments—dairy husbandry, dairy chemistry, dairy microbiology, dairy technology, and pig husbandry. Moorepark and its associated field stations comprise 1,641 acres (665 ha) of which 662 acres are owned by the Agricultural Institute with the balance owned by cooperative groups and leased to the Institute on short-term agreements. The dairy husbandry department is the largest unit and its objective is the elimination of barriers to efficient dairy production, based on low-cost grassland systems.

The animal health program is focused on herd fertility and calf mortality while good quality silage and dairy cattle nutrition are under constant research. The system of dairying advocated by Moorepark is based on a spring-calving herd, compact calving in the January-February period, stocked at 0.8-1.0 acres per cow using approximately 240 lb. nitrogen to the acre. Two cuts of silage are an essential requirement to meet winter feed needs. Results from one of the

farms (Curtins) have indicated that outputs in excess of 1,100 gallons (Imperial) per cow were obtained at 0.8 acres per cow (5000 litres/cow).

The dairy chemistry department conducts long-term fundamental research on milk lipids, proteins and minerals which support the more immediate applied projects on products such as butter, cheese, and milk powders. Specialist advice to the dairy industry and the provision of analytical services within the Institute are important facets of the department's activities. The Institute is conducting some interesting work on mastitis and teat liners.

In the afternoon, the group visited two of Ireland's leading Friesian cattle herds. The first stop was at the Ballinahina Pedigree Friesian herd at Tree Tops farm owned by Mr. Michael Buckley who recently became the first Irishman to serve as president of both Irish and British Friesian Cattle Societies. On his 440 acre farm there are 270 cows, 100 in-calf heifers, 100 yearlings, and 120 younger cattle, with 60 acres of feeding barley, and 380 acres grass. His dairy unit consists of 312 cubicles lined with special "wall-to-wall" Enkamat K cow carpet made in Arnhem, Holland. The material has a 10-year guarantee. The milk herd is fitted with transplanters around each cow's neck for individual identification. The Hunday in-line metering system restricts each cow to a pre-determined ration automatically divided into pre-set periods. The central processing unit displays on demand exactly every animal's intake as well as total feed dispensed in the previous 24 hours (further details from Hunday Electronics, Ltd., Samson Close, Killingworth, Newcastle upon Tyne NE12 0DX, England). The 22-unit rotary milk parlor feeding

system and the automatic out-of-parlor feeding system are connected to a control computer. The herd has a production of 13,400 lbs. of milk per cow and heifer with a margin over feed cost per animal of 856 Irish pounds (approx. \$1040).

Mr. and Mrs. Buckley are ably assisted by their sons, Dennis and Thomas, and daughters Anne Marie, Mary, Breda, and Michelle. They entertained the group royally to a sumptuous afternoon tea in their magnificent home.

The tour group then traveled to a neighboring farm operated by Mr. and Mrs. Saen O'Sullivan, Listuff Farm, Whitechurch, Co. Cork, and their son John. This herd of Pedigree Friesian cattle has 330 cattle on 250 acres which is the equivalent of one adult animal per acre. It is all permanent grassland which produces over 2000 tons of silage a year. The milk yield of 1,350 lbs. per cow is 850 Irish pounds (\$1130.00) over meal cost. Their son John is a director of Pioneer Breeders with headquarters in Northumberland, England. He is also the secretary of the Irish branch. This is a privately owned AI and embryo transfer organization. The O'Sullivans make extensive use of embryo transfer with 50 collected this year by non-surgical collection and surgical transfer. Here again the tour group were entertained to a delicious farmhouse home cooked tea hosted by Mrs. O'Sullivan and her daughters and daughter-in-law.

Having enjoyed Irish hospitality of the highest possible caliber, the group left for Cork where they spent a most enjoyable dinner with members of the Cork Veterinary Society and their spouses. There was a most interesting and instructive exchange of ideas and anecdotes on practice and research among the participants. The officers are Dr. Conor O'Brien, chairman, and Dr. Michael Condon, Secretary-Treasurer.

This outstanding tour could not have wished for a better climax than to visit the world famous horse stud at Coolmore, Fethard, Co. Tipperary, on Sunday morning. Blessed with cloudless, delightful weather, the group was given an excellent tour and a commentary by Mr. Michael O'Hagan, Assistant Manager.

**Editor's Note:** The AABP members and spouses who were privileged to participate in this outstanding and memorable visit wish to express their sincerest thanks to Dr. Kevin O'Farrell, Principal Research Officer, Moorepark Research Centre and Chairman, XIV World Congress on Cattle Diseases, for graciously arranging visits to Moorepark, the two dairy farms, dinner with the Cork veterinarians and Coolmore Stud. Also to Dr. J. C. Condon, veterinarian, and Mr. Michael O'Hagan, Coolmore Stud. Mr. and Mrs. Michael Buckley and Mr. and Mrs. Saen O'Sullivan and their families will be remembered forever for their superb Irish hospitality and home cooking.

## At Moorepark Research Center



*Dr. Oliver Langley, right, discusses research programs.*



*Eddie O'Callaghan, Dr. Kevin O'Farrell and Donal McCarthy.*



*John Mee discussing calf problems*

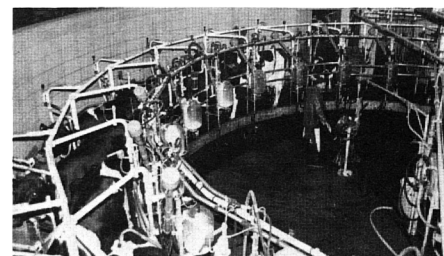
## At the Dairy Farms



*The group with the Buckley family.*

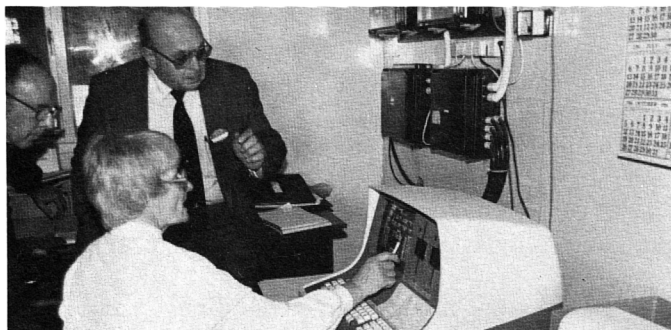


*Mr. and Mrs. Buckley and family*



*Milking parlor*





*at the computer*



*homeward bound*

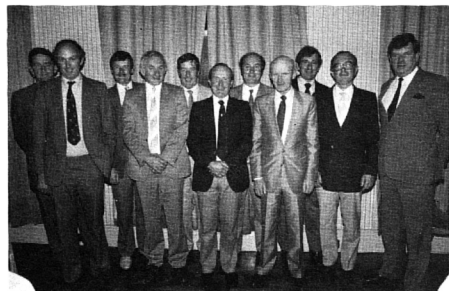


*John O'Sullivan, right center, explaining the dairy operation.*



*Group with the O'Sullivan family.*

## ***An Evening with the Cork Veterinary Society***



*our veterinary colleagues . . .*

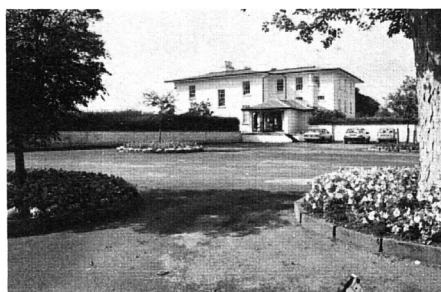
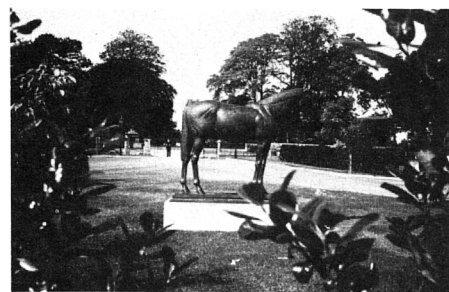


*. . . and their ladies*



*dinner in progress*

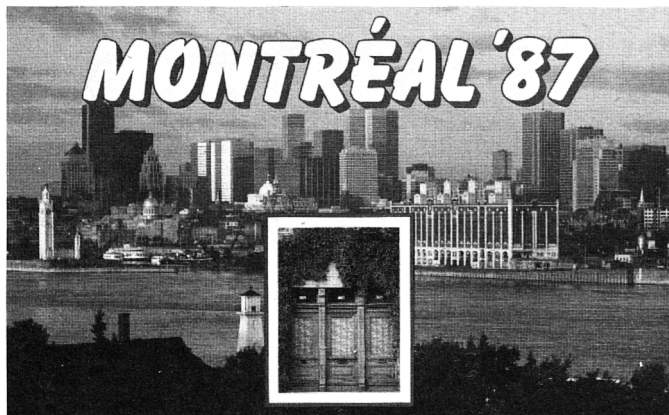
## ***A Sunny Morning at Coolmore***



*Mr. O'Fagan, left, at the laboratory*

## XXIII World Veterinary Congress

Montreal, Quebec, Canada  
August 16-21, 1987



### "The City on the Island"

#### Departure: Montreal

Bienvenue! Welcome! is what greets you everywhere. Montreal enjoys the reputation of being one of the world's truly cosmopolitan cities. Whether in French or English, the feeling is unique: the quaint elegance of Europe with comfortable familiarity of North America.

Now on to your hotel. All the major chains are represented and there are also charming, smaller hotels with that continental flavour.

When you have some time, stroll through Old Montreal, with its cobblestone streets and history in every nook. Or take in some local colour on Prince Arthur, St-Denis or Crescent streets with their sidewalk terraces, cozy bistros, jazz joints, restaurants and dance clubs.

**Montreal has it all: the intense city life and the pleasant walking are safe at noon or at midnight.**

Montreal is a city full of excitement to be found in even the most simple task, such as finding the right restaurant. Montreal is known for its fine and varied cuisine. Here you will find French right alongside with your typical steak and you'll come across savoury Quebecois food, robust Italian, sizzling Chinese, delicate Japanese, and a smorgasbord of others. Name your taste. The food is delicious and the anticipation sublime.

Michel Fugain said: "It is easier to meet Quebecers in the summer, but winter is when you get to know them".

Well, let's take this opportunity to get acquainted in the summer of 1987!

#### On To History: Quebec City

Quebec's streets and buildings serve as reminders of the fact that this unique city owes much of its charm and grace to its ancestral ties with Europe.

Hanging on a cliff overlooking the St-Lawrence river, the waterway which goes deep onto the heart of the Continent, this fortified city controls all the navigation.

On top of the rock, at the ancient citadel, there is a park: once a battleground, it is now peaceful and bathes in the softness of its name Abraham meadows. Lovers have replaced soldiers at this breathtaking and historical site.

Summer is a time when fun takes over the city: artists, musicians, singers, comedians, all celebrate that which is the trademark of Quebec: la joie de vivre. They are all waiting for you.

The old city is not stiff: here, the laughter of students are mixed with the smiles of the tourists. And there, the politician seats next to the coachman at a street cafe . . . Join in the fun!

#### Next Stop: Nature

The St-Lawrence river! We are not quite sure where the river stops and the ocean begins . . .

Along the banks, there is the Gaspésie with its mist, the lighthouses, and those delicious little shrimps from Matane . . . And then there is the Gulf, the Iles-de-la-Madeleine, the fishing ships and the fishes, a seafood delight: lobsters, eels, cod and crabs, big as a soup bowl!

In the wild nature of the Province of Quebec, lives a symbol: the maple tree. Comes fall and the Indian Summer, the maple tree and its red foliage turns our forests into a scarlet ocean. Comes spring, the maple tree yields a sap you will relish in our delicious maple sirup.

There they are: the Laurentian mountains, resting quietly . . . old age you understand? Over there, the playfull whales bathe their thirty tons, deep inland, for your eyes only.

Parks, forests, lakes . . . the wilderness is enormous and the trip wonderful.

**QUEBEC: we open our heart to you . . .**

#### Here . . . Change of Scenery . . . Rush To The West ONTARIO . . .

**Ottawa**—Capital of Canada. The Parliament and its gothic buildings along the banks of the Rideau Canal invite you to come in. The cruise ship will wait . . .

**Toronto**—Famous for the Yorkville district full of shops and art galleries. From its huge Tower,

## 1967 Louisville Meeting Recalled

*(extracts from the January 1967 issue)*

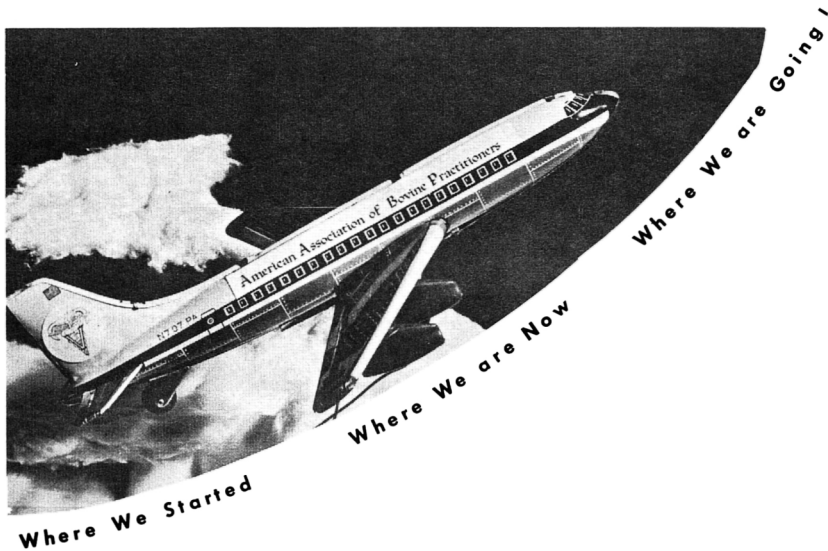


### TOP MEN- TENSE, MOBILIZING MOMENTS

The AABP in Louisville, Kentucky

As the closing hours of the convention approached, the board members made final decisions on matters pertaining to the American Association of Bovine Practitioners. The board had met on two previous occasions. Decisions were made on tape recordings, eligibility for membership, and how to make our goals meaningful and membership more rewarding. The association is now air-borne as seen in the following pages of our new publication.

### Convention Reports



HAROLD AMSTUTZ, D.V.M.  
Lafayette, Indiana



Williams

Ivie

Weldy

Clower

Bartenslager

# -NOTES-

## **Lutalyse®** Sterile Solution (dinoprost tromethamine)

**VETERINARY** – For intramuscular use in cattle when regression of the corpus luteum is desired. This includes estrus synchronization, treatment of unobserved (silent) estrus and abortion of feedlot and other non-lactating cattle.

### INDICATIONS AND INSTRUCTIONS FOR USE

**Cattle** – *Lutalyse* (dinoprost tromethamine) sterile solution is indicated as a luteolytic agent.

*Lutalyse* is effective only in those cattle having a corpus luteum, i.e., those which ovulated at least five days prior to treatment. Future reproductive performance of animals that are not cycling will be unaffected by *Lutalyse* injection.

**1. For Intramuscular Use for Estrus Synchronization in Beef Cattle and Non-Lactating Dairy Heifers.** *Lutalyse* is used to control the timing of estrus and ovulation in estrus cycling cattle that have a corpus luteum.

Inject a dose of 5 ml *Lutalyse* (25 mg PGF<sub>2α</sub>) intramuscularly either once or twice at a 10 to 12 day interval.

With the single injection, cattle should be bred at the usual time relative to estrus.

With the two injections cattle can be bred after the second injection either at the usual time relative to detected estrus or at about 80 hours after the second *Lutalyse* injection.

Estrus is expected to occur 1 to 5 days after injection if a corpus luteum was present. Cattle that do not become pregnant to breeding at estrus on days 1 to 5 after injection will be expected to return to estrus in about 18 to 24 days.

**2. For Intramuscular Use for Unobserved (Silent) Estrus in Lactating Dairy Cows with a Corpus Luteum.** Inject a dose of 5 ml *Lutalyse* (25 mg PGF<sub>2α</sub>) intramuscularly. Breed cows as they are detected in estrus. If estrus has not been observed by 80 hours after injection, breed at 80 hours. If the cow returns to estrus breed at the usual time relative to estrus.

**3. For Intramuscular Use for Treatment of Pyometra (chronic endometritis) in Cattle.** Inject a dose of 5 ml *Lutalyse* (25 mg PGF<sub>2α</sub>) intramuscularly. In studies conducted with *Lutalyse*, pyometra was defined as presence of a corpus luteum in the ovary and uterine horns containing fluid but not a conceptus based on palpation per rectum. Return to normal was defined as evacuation of fluid and return of the uterine horn size to 40 mm or less based on palpation per rectum at 14 and 28 days. Most cattle that recovered in response to *Lutalyse* recovered within 14 days after injection. After 14 days, recovery rate of treated cattle was no different than that of nontreated cattle.

**4. For Intramuscular Use for Abortion of Feedlot and Other Non-Lactating Cattle.** *Lutalyse* is indicated for its abortifacient effect in feedlot and other non-lactating cattle during the first 100 days of gestation. Inject a dose of 25 mg intramuscularly. Cattle that abort will abort within 35 days of injection.

### WARNINGS

Not for human use.

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. Dinoprost tromethamine is readily absorbed through the skin and can cause abortion and/or bronchospasms. Direct contact with the skin should, therefore, be avoided. Accidental spillage on the skin should be washed off **immediately** with soap and water.

Use of this product in excess of the approved dose may result in drug residues.

### PRECAUTIONS

Do not administer to pregnant cattle unless abortion is desired.

Do not administer intravenously (I.V.), as this route might potentiate adverse reactions.

Cattle administered a progestogen would be expected to have a reduced response to *Lutalyse*.

Aggressive antibiotic therapy should be employed at the first sign of infection at the injection site whether localized or diffuse. As with all parenteral products careful aseptic techniques should be employed to decrease the possibility of post injection bacterial infections.

### ADVERSE REACTIONS

1. The most frequently observed side effect is increased rectal temperature at a 5x or 10x overdose. However, rectal temperature change has been transient in all cases observed and has not been detrimental to the animal.

2. Limited salivation has been reported in some instances.

3. Intravenous administration might increase heart rate.

4. Localized post injection bacterial infections that may become generalized have been reported. In rare instances such infections have terminated fatally. See PRECAUTIONS.

### IMPORTANT

**No milk discard or preslaughter drug withdrawal period is required for labeled uses.**

### DOSAGE AND ADMINISTRATION

*Lutalyse* is supplied at a concentration of 5 mg dinoprost per ml. *Lutalyse* is luteolytic in cattle at 25 mg (5 ml) administered intramuscularly. As with any multidose vial, practice aseptic techniques in withdrawing each dose. Adequately clean and disinfect the vial closure prior to entry with a sterile needle.

### HOW SUPPLIED

*Lutalyse* Sterile Solution is available in 10 and 30 ml vials.

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

**Upjohn**

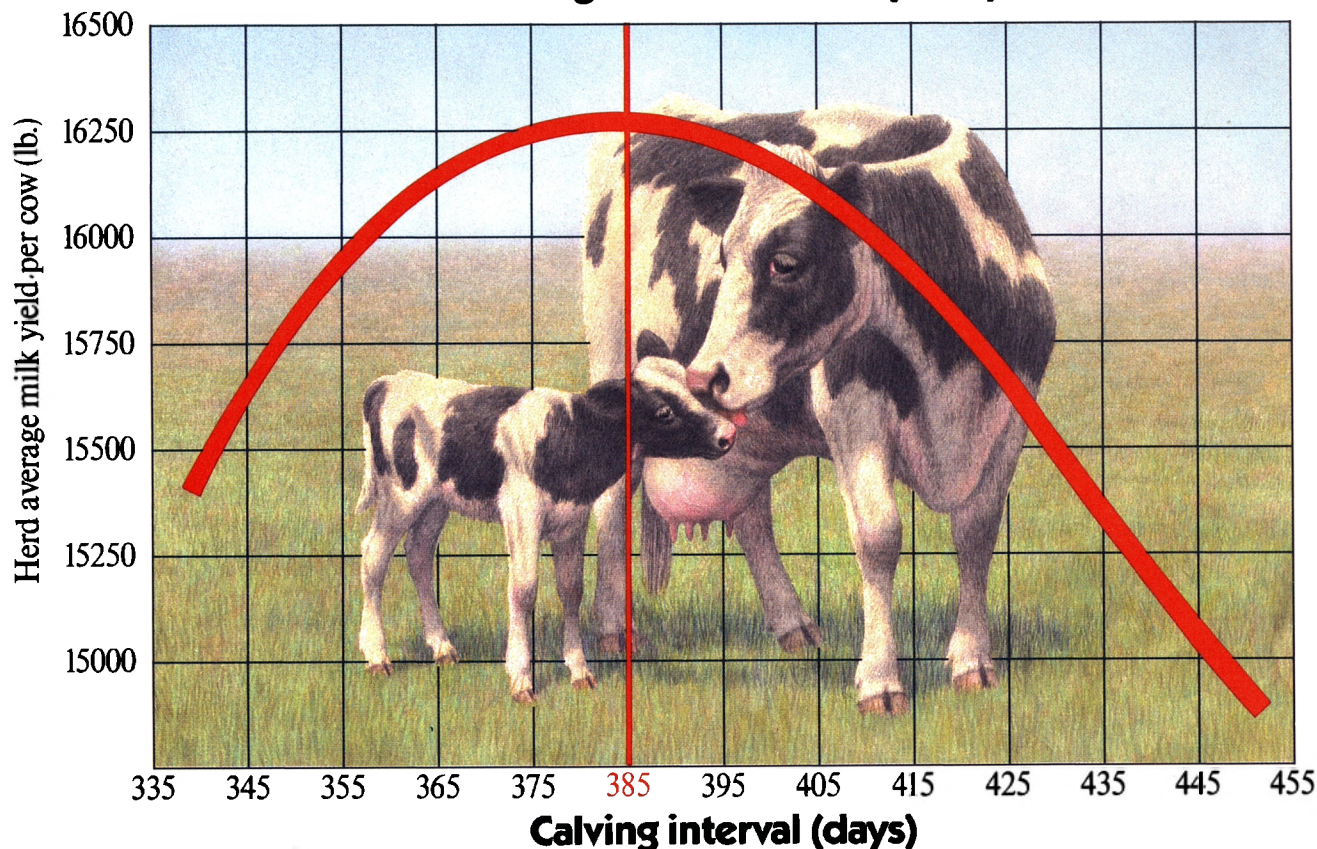
*The Standard of Quality.*  
Kalamazoo, Michigan 49001



# For shorter calving intervals, make **Lutalyse**<sup>®</sup> your postpartum partner.

(dinoprost tromethamine)

Effect of calving interval on milk yield per cow



## Reduce costly 'days open' with Lutalyse<sup>®</sup> STERILE SOLUTION.

As a dairy producer, you can't afford anything more than a 12-13 month calving interval. Sound postpartum management and Lutalyse can improve your breeding efficiency and put your cows back in the milking string on schedule.

## The Lutalyse postpartum program.

Chronic endometritis (pyometra) and silent or unobserved estrus are costly problems that can prevent you from getting cows bred on time. Solve these problems



by having your veterinarian conduct a postpartum examination and use Lutalyse as indicated to get your cows bred back on time.

Missed breedings? Don't waste any more time. Use Lutalyse as indicated and re-breed on observed heat.

## Ask your veterinarian.

For improved breeding efficiency and shorter calving intervals, ask your veterinarian about postpartum management and Lutalyse.

**Upjohn**

*The Standard of Quality.  
Kalamazoo, Michigan 49001*



# Now...block the deadly respiratory disease trap!

*Dear Doctor:  
We're telling clients  
to see you now  
for BRSV vaccine!*



## BRSV™ vaccine helps prevent the triggering of shipping fever and bacterial pneumonia.

The shipping fever/bacterial pneumonia trap is often set off by a subtle viral disease – Bovine RSV (respiratory

syncytial virus). In fact, at the time this respiratory trap is sprung, the Bovine RSV trigger may not even be detectable. But the damage is done! Here's what we've found out about this disease...

Bovine RSV can hit calves anytime. At the start, infection is usually mild and can slip past the most observant manager. But the virus is at work, setting calves up for secondary infections. What began as a Bovine RSV infection gets tagged as the familiar shipping fever/bacterial pneumonia complex that often follows.

There's more. To make matters worse, Bovine RSV can move into a second, more vicious stage where it destroys lung tissue. Breathing may become so difficult that calves can't pause long enough to eat, or even to take a drink of water.

Death losses and cost of treatment can be astronomical.

Norden has help for you – 'BRSV' vaccine. In tests, 'BRSV' vaccine protected calves against exposure that produced disease in unvaccinated control calves. And 'BRSV' was safe, with no untoward reactions in vaccinates or shedding of vaccine virus to contact control calves.<sup>1</sup>

'BRSV' was proved economically important in tests. In a 112-day trial at Purdue University in 1985, feedlot calves showed higher average daily gains and lower feed consumption per pound of gain as compared to nonvaccinated calves.<sup>1</sup> In studies involving weaned calves, cost of treatment for respiratory disease was reduced from as much as \$46.99 per head to as little as 4 cents in different cow/calf operations.<sup>2</sup>

Talk to your veterinarian today about Bovine RSV infection... and how to protect your calves with 'BRSV' vaccine from Norden.

<sup>1</sup>Data on file, Norden Laboratories

<sup>2</sup>Bohlender, R.E. Field Trials of a Bovine Respiratory Syncytial Virus Vaccine. Mod. Vet. Prac. 65:606-609; 1984.



**BRSV™  
vaccine**

Making respiratory protection  
more complete