

Thirtieth Annual Conference

of the

American Association of Bovine Practitioners

September 18 - 20, 1997



GENERAL SESSIONS

Bovine Clinical Medicine

Thursday, September 18

1:00 p.m. - 4:30 p.m.

Location: Congress Hall 407-C

Moderator: Michael Vaughn

1:00-2:30	Cattle Hoof Care - Roger Blowey
2:30-3:00	Milk/Refreshment Break
3:00-3:45	The Forgotten Viruses: A Cause for Clinical Concern? - John Ellis
3:45-4:30	Implementing Biosecurity in Beef and Dairy Herds - John Thomson

Current Issues in Bovine Medicine

Friday, September 19

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

Location: Congress Hall 407-C

Moderator: Tom Edwards

1:30-2:15	Responsible and Legal Drug Use in the Cattle Industry - Steve Sundlof
2:15-2:45	Drug Use on the Farm - Telling It Like It Is - Keith Sterner
2:45-3:00	Questions and Answers
3:00-3:30	Milk/Refreshment Break
3:30-4:15	Current Thinking Regarding BSE - Will Hueston
4:15-5:00	Auction Market Cattle Welfare Initiatives - Bonnie Bargstedt

DAIRY SPLIT SESSIONS

Internal Medicine - Rational Approaches to Some Common Problems

Friday, September 19

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

Location: Congress Hall 407-C

Moderator: Emile Bouchard

8:00-8:45	A Rational Approach to Septic Calves - Gilles Fecteau
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8:45-9:30

Salmonella: Current Concepts - **John House**

9:30-9:45

Questions and Answers

9:45-10:15

Milk/Refreshment Break

10:15-11:00

Prepartum Nutrition: The Critical Key to Diagnosis and Management of Periparturient Disease -

Robert Van Saun

11:00-11:45

Down Cows - Causes and Treatments - **Bradford Smith**

11:45-12:00

Questions and Answers

Practitioner Panel - Small Herd - Leading Our Producers Into the Future

Saturday, September 20

9:30 a.m. - 11:30 a.m.

Location: Congress Hall 407-C

Moderator: Henry Ceelen

9:30-9:45

A Review of the Quebec Dairy Herds Health Improvement (A.S.T.L.Q.) Project - **Emile Bouchard**

9:45-10:15

How the A.S.T.L.Q. Project Has Impacted My Relationship with Producers -

Paul Baillargeon

10:15-10:45

Consulting Services that Benefit Small Dairies - **Ewen Ferguson**

10:45-11:15

Financial Consulting For the Small Dairy - **Rob Bell**

11:15-11:30

Panel Questions and Answers

Manager Panel - Large Herd - Maintaining Cattle Health Through Effective Labor Management

Saturday, September 20

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

Location: Congress Hall 407-C

Moderator: John Ferry

1:30-2:00

Sick Cow Problems Are People Problems: A Management System For the

Periparturient Cow - **David Sumrall**

2:00-2:15

Panel Discussion

2:15-2:45

Production: Limited or Driven By Feed Bunk Management - **Robbi Pritchard**

2:45-3:00 Panel Discussion
 3:00-3:30 Milk/Refreshment Break
 3:30-4:00 Labor Systems For Caring For Sick Cows -
Meg Cattell
 4:00-4:15 Panel Discussion
 4:15-4:45 Labor Systems for Maintaining Udder
 Health - **Ron St. John**
 4:45-5:00 Panel Discussion

COW/CALF AND FEEDLOT SPLIT SESSIONS

Friday, September 19
 8:00 a.m. - 12:00 noon
 Location: 408-A, 408-B, 408-C
 Moderator: Mike Sanderson

8:00-9:00 Missed Opportunities for Consultation In
 Beef Cattle Practice - **Steve Henry**
 9:00-9:45 The Latest In Estrus Synchronization In
 Beef Cattle - **Larry Corah**
 9:45-10:15 Milk/Refreshment Break
 10:15-12:00 Implants - Birth To Finish - **Terry Mader**

Saturday, September 20
 9:30 a.m. - 11:30 a.m.
 Location: 408-A, 408-B, 408-C
 Moderator: David VanMetre

9:30-10:30 The Interface Between Energy and Cattle
 Production - **Cheryl Waldner**
 10:30-11:30 Use of Ionophores In Grazing Ruminants -
Gerald Huntington
 11:30-12:00 Milk/Refreshment Break

Saturday, September 20
 1:30 p.m. - 5:00 p.m.
 Location: 408-A, 408-B, 408-C
 Moderator: David VanMetre

1:30-3:00 Cull Cow Programs - **Mark Spire**
 3:00-3:30 Milk/Refreshment Break
 3:30-5:00 The Economics of Parasite Control -
Craig Reinemeyer

PRACTICE TIPS

Thursday, September 18
 7:00 p.m. - 9:00 p.m.
 Location: 407-C
 Moderator: Arden Nelson

7:00-7:12 Treat Her Nice and Pack Her With Ice -
Dave Horn
 7:12-7:24 Practical and Humane Cattle Euthanasia -
Don Gardner
 7:24-7:36 Dairy Barbecue II and Quarters Add Up To

7:36-7:48 Dollars - **Andy Johnson**
 Photographs on the Farm: Another Tool -
Mark Arnfelt
 7:48-8:00 Top Ten Uses of a pH Meter in Practice -
Phillip Jardon
 8:00-8:24 Use it or Lose it: Shoulder Physical
 Therapy For Palpators -
Sandra Miller
 8:24-8:36 Ouch! My Back: Modified Hoof Trimming
 Chute - **Bernard Huot**
 8:36-8:48 Fashion Tips Trois: Stretching Things a
 Bit - **Kelvin Pierce**
 8:48-9:00 Tennessee Tidbits VIII -
Hugh McCampbell

RESEARCH SUMMARIES

BEEF AND GENERAL RESEARCH SUMMARIES I

Thursday, September 18
 1:00 p.m. - 4:30 p.m.
 Location: 409
 Moderator: Mike Apley

1:00 p.m. *Salmonella typhimurium* DT 104. An
 emerging *salmonella* in livestock and
 humans - **Clive Gay**
 1:18 p.m. A novel view of the pathogenesis of
 trichomoniasis: Does the dam destroy her
 own pregnancy? - **Bob BonDurant**
 1:36 p.m. Effects of Tilmicosin on the incidence of
 bovine respiratory disease when used in
 metaphylactic treatment programs -
C.A. Guthrie
 1:54 p.m. Remote needle-less delivery of ceftiofur to
 cattle - **David T. Bechtol**
 2:12 p.m. Use of transfixation pinning and external
 fixation for management of complicated
 fractures in cattle: 30 cases -
David E. Anderson
 2:30 p.m. Milk/Refreshment Break
 3:00 p.m. The comparative effectiveness of carbicarb-R,
 tribonate-R and bicarbonate in the
 treatment of acidosis in neonatal calves -
Joachim Berchtold
 3:18 p.m. The effect of water sulfate content on H₂S
 Generation, health and performance of
 feedlot cattle - **Guy Loneragan**
 3:36 p.m. Incisor enamel erosion in beef cattle as the
 result of feeding an acidic by-product feed -
Glenn Rogers
 3:54 p.m. Influence of a plant growth regulator on
 immune responses and copper status in
 steers grazing tall fescue -
Korinn E. Saker
 4:12 p.m. Liver trace mineral status of cow-calf
 ranches in the western high plains -
L. M. Schugel

RESEARCH SUMMARIES

DAIRY AND GENERAL RESEARCH SUMMARIES I

Thursday, September 18

1:00 p.m. - 4:30 p.m.

Location: 411-A & B

Moderator: Pam Ruegg

- 1:00 p.m. Dairy producer opinions and farm practices used to assure milk and dairy beef quality: a five state survey - **David J. Wilson**
- 1:18 p.m. Milk residue testing: Issues of concern - **Stephen A. Connell**
- 1:36 p.m. The effects of *M. paratuberculosis* infection on reproductive performance, somatic cell count and longevity in dairy herds - **Larry Hutchinson**
- 1:54 p.m. Comparison of calf performance, morbidity and mortality of purchased Holstein calves based upon immunoglobulin status at time of arrival - **Mike Fowler**
- 2:12 p.m. Maternal influence on cellular immunity in the calf - **Brian Aldridge**
- 2:30 p.m. Milk/Refreshment Break
- 3:00 p.m. Evaluation of the prevalence and risk factors for *dictyocaulus viviparus* infestation in first lactation cows: A sero-epidemiological survey - **Vincent Caldwell**
- 3:18 p.m. The effect of GnRH therapy on the hormonal profile and ovarian ultrasonographic images in cows with cystic ovarian disease - **C. J. Johnson**
- 3:36 p.m. Timing of insemination of dairy cattle when pedometers are used for estrus detection - **Thomas Sarosy**
- 3:54 p.m. Pelit efficacy trials in bovine animals (permanent electronic livestock identification tags) - **Robert Kleemeier**
- 4:12 p.m. Daily feed cost and production accounting for dairy businesses - **Kenn Buelow**

RESEARCH SUMMARIES

BEEF AND GENERAL RESEARCH SUMMARIES II

Friday, September 19

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

Location: 409

Moderator: Glenn Rogers

- 1:30 p.m. Priming the immune system for IBR and BVD with one dose of killed vaccine: Immunization with a follow up dose of modified live vaccine - **Michael Vaughn**

- 1:48 p.m. SN titer response comparison among fourteen diagnostic laboratories for antibodies protecting against IBR, BVD, and BRSV virus following the administration of a modified live vaccine to weaning aged calves - **Michael Vaughn**
- 2:06 p.m. Rapid determination of acid-base status in diarrheic and healthy calves with the Cady Twin Waterproof pH Meter - **Germain Nappert**
- 2:24 p.m. Respiratory bovine coronavirus infections in feedlot cattle - **Sarah L. Lathrop**
- 2:42 p.m. Persistent bovine viral diarrhoea virus infection in beef herds - **Thomas E. Wittum**
- 3:00 p.m. Milk/Refreshment Break
- 3:30 p.m. Studies in vaccine induced cell-mediated immunity in cattle: The challenge - **Bob Compton**
- 3:48 p.m. Efficacy of bovine papilloma virus vaccines in preventing papillomas in yearling bulls - **W. Dee Whittier**
- 4:06 p.m. A diagnostic tool for fescue toxicosis - **Frederick N. Thompson**
- 4:24 p.m. Epirinomectin: discovery and implications for parasite control in dairy cattle - **William Ryan**
- 4:42 p.m. Comparison of serum - versus colostrum - derived IgG supplements on the attainment of passive immunity in newborn calves - **John C. Hauptert**

RESEARCH SUMMARIES

DAIRY AND GENERAL RESEARCH SUMMARIES II

Friday, September 19

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

Location: 411-A & B

Moderator: Pam Ruegg

- 1:30 p.m. Blood calcium and phosphorus relationships in the parturient paresis syndrome in mature Holstein cows - **Luc DesCoteaux**
- 1:48 p.m. Effects of an oral calcium chloride gel on prevention of hypocalcemic relapses in dairy cattle - **Garret R. Oetzel**
- 2:06 p.m. Anionic salts for the dry cow: Evaluation of various salts and the CAD equation - **Jesse Goff**
- 2:24 p.m. Hypokalemia in dairy cattle: a retrospective study - **Nicolas Sattler**
- 2:42 p.m. Preliminary results from an investigation into the effect of sampling time, cow factors and feeding management factor on diurnal variation of milk urea nitrogen - **Sandra Godden**

- 3:00 p.m. Milk/Refreshment Break
 3:30 p.m. Effect of monensin on cow health and milk production in early lactation -
Todd Duffield
 3:48 p.m. Comparison of oro-ruminal probe and rumenocentesis for prediction of rumen pH in dairy cattle - **Greg P. Keefe**
 4:06 p.m. Epidemiology of *Neospora caninum* infection in Quebec dairy herds -
Julie Paré
 4:24 p.m. Low and high dose antibiotic spray trials for treatment of papillomatous digital dermatitis (footwarts) -
Steven L. Berry
 4:42 p.m. Field trial models for the evaluation of hairy wart treatment products -
Thomas C. Hemling

POSTER SESSION I

September 18 and 19
 2:30 p.m. Thursday to 1:30 p.m. Friday

The Poster Sessions are in the 4th floor lobby and are available for viewing during exhibit hours.

1. **Van H. Neidig** - Cattle Trax
2. **Gerald D. Mechor** - The effects of early treatment with Micotil on animal health and performance of stocker cattle during preconditioning and winter wheat grazing.
3. **David T. Bechtol** - Efficacy of a sustained release needle-less ceftiofur implant on treating calves with bovine respiratory disease.
4. **Harless A. McDaniel** - Using electronic identification for health records and certification.
5. **Harless A. McDaniel** - Databases and electronic identification devices for cattle.
6. **Vincent Caldwell** - Impact of a sustained-release Ivermectin bolus on weight gain in breeding age Holstein heifers under commercial pasture conditions.
7. **Wolfgang Heuwieser** - Computer based training of dairy reproduction: A comparison between a tutorial and a problem oriented approach.
8. **Bill Epperson** - Association of *Corynebacterium pyogenes* uterine infection with PMN function.
9. **David Kelton** - Reasons that dairy cows leave home - valid or not?
10. **Kerry Lissemore** - Recommendations for national standards for recording and presenting selected clinical diseases of dairy cattle.
11. **Wolfgang Heuwieser** - Effects of different prostaglandin F_{2α} programs: reproductive performance and partial budgets.
12. **Clive C. Gay** - *Salmonella typhimurium* DT 104. An emerging salmonella in livestock and humans.
13. **C. J. Johnson** - The effect of GnRH therapy on the hormonal profile and ovarian ultrasonographic images in cows with cystic ovarian disease.
14. **Glenn Rogers** - Incisor enamel erosion in beef cattle as the result of feeding an acidic by-product feed.

15. **Robert Kleemeier** - Efficacy trials for electronic transponders implanted in bovine animals.
16. **L. M. Schugel** - Liver trace mineral status of cow-calf ranches in the western high plains.
17. **Kenn Buelow** - Daily feed cost and production accounting for dairy businesses.
18. **Dragan Rogan** - Immunotherapy, efficacy of a mycobacterial cell wall preparation (Immunoboost-K) in newborn calves infected with enterotoxigenic *E.coli*.
19. **Tom Hamilton** - Comparison of fixed time insemination of heifers and lactating beef cows using an intravaginal progesterone releasing device (CIDR-B), estradiol benzoate and prostaglandin F_{2α} with other methods.
20. **Will Marsh** - A HACCP program for dairy herds.

POSTER SESSION II

September 19 and 20
 2:30 p.m. Friday to 1:30 p.m. Saturday

The Poster Sessions are in the 4th floor lobby and are available for viewing during exhibit hours.

1. **Terry Skogerboe** - The effect of treating beef cows with doramectin or ivermectin on calf performance and parasitological variables.
2. **Terry Skogerboe** - A comparison of doramectin and ivermectin/clorsulon for the control of gastrointestinal nematodes and weight gains in stocker cattle.
3. **Richard Eicher** - Factors affecting analysis and interpretation of milk urea nitrogen determination in dairy cows.
4. **Luc DesCôteaux** - Evaluation of new diagnostic tests to predict hypocalcemia in mature dairy cows.
5. **Will Marsh** - Surveys of persistent health and production problems in Minnesota and Wisconsin dairy cows.
6. **Phil Sears** - Eliminating *Staphylococcus aureus* intramammary infections using immune enhancement and therapy.
7. **Greg P. Keefe** - Use of pirlimycin in a *Streptococcus agalactiae* eradication protocol.
8. **Jennifer Ivany** - Monitoring mastitis pathogen patterns in a dairy herd using the HyMast culture system.
9. **David Bezek** - Partial identification and antibiotic susceptibility pattern of bovine bacterial mastitis isolates from a practice population.
10. **Julie Paré** - A new kit for detection of *Staphylococcus aureus* in milk.
11. **Emile Bouchard** - Managing milk quality, an educational kit for dairy farmers.
17. **Jorge Guerrero** - Ivomec (ivermectin) SR bolus - An overview of efficacy, safety and effects on bovine productivity.
13. **Bob Compton** - Studies in vaccine induced cell-mediated immunity in cattle: the challenge.
14. **John C. Hauptert** - Comparison of serum-versus colostrum - derived IgG supplements on the attainment of passive immunity in newborn calves.

15. **Thomas C. Hemling** - Field trial models for the evaluation of hairy wart treatment products.

SEMINARS

ATTENTION: Seminars may be cancelled if enrollment is inadequate by August 15.

COMPUTER PRACTICE TIPS

Fee: Free to all registrants
Location: 401-B & C
Date: Thursday, September 18
Time: 1:00 p.m. to 5:00 p.m.
Coordinator: Bill Epperson, DVM

- 1:00 **Jim Ehrlich** - E-mail use and AABP-L
 1:25 **Dale Miskimins** - Practitioner Access of Diagnostic Lab Databases
 1:50 **Neil Hammerschmidt** - Update on Bovine Electronic Identification
 2:15 **Lonty Bryant** - Papyrus - A Literature Resource Organizer
 2:40 **Reilly Glore** - AABP Home Page Update
 3:05 BREAK
 3:30 **Jim Brewer** - AVMA On-Line Services - Benefits for the Bovine Practitioner
 3:55 **Steve Stewart** - Dairy Financial Projection Software
 4:20 **Dee Griffin** - Spreadsheet Applications for the Beef Practitioner
 4:45 **Don Cain** - Performance Plus - A "Computerless" Electronic Data Capture System for Beef Practitioners

AABP SOFTWARE LIBRARY

The AABP Software Library is composed of freely-copyable software programs. It will be available to members all day, Saturday, September 20. Some of the programs are in the public domain, some are marketed as shareware, and others are demonstration versions of commercially-available software.

Software is chosen to serve a variety of interests: practice management, beef and dairy applications, word processing, statistics, Internet access, and fun subjects. Each program is checked for viruses, compressed, and loaded onto the hard disks of dispensing computers. "Shopping Lists" are provided listing all software available. All software programs are listed alphabetically and by category with a description of their use and application to allow browsing for programs of interest. All browsing is free. To copy programs, diskettes which are pre-formatted and pre-loaded with decompression data must be purchased from a software librarian at a nominal fee. All proceeds from the sale of these diskettes are devoted to the maintenance and growth of the library. Software contributions are continually sought to build library usefulness.

Fee: Free browsing to all registrants
Location: 401-B & C
Date: Saturday, September 20
Time: 9:00 a.m. to 5:00 p.m.
Coordinator: Gale DeJong, DVM
 Phone: 360-354-5095
 Fax: 360-354-3740

SEMINAR LIST

Sem.#	Title	Date	Sept.	Coordinator
1	Quality Milk Production	15-17		Dahl
2	Dairy Herd Evaluation A	15-17		Fetrow
3	Computer Aided Approach Providing a Financial Analysis Service as Part of a Production Medicine Program	15-16		Saltman
4	Barnyard Epidemiology	17-18		Kinsel
5	Beef Cattle Enterprise Analysis	17		Hamilton
6	Bovine Internal Medicine	17		Smith
7	Diagnosing Infectious and Toxicological Diseases	16		Brunner
8	Total Quality Management for Dairy Herds	16		Sischo
9	Managing Dairy Herd Repro.	16		Britt
10A	Embryo Transfer Techniques	15		Rowe
10B	Freezing/Thawing Embryos	16		Wright
11	Advanced Embryo Transfer	16		Robertson
12	Making Your Practice Work for You	17		Gardner
13	Young Dairy Calf Mgt.	16-17		Cortese
14	Applied Dairy Nutrition and Problem Solving	14-16		Hutjens
15	Advanced Nutrition	15-16		Graham
16	Dry Cow Nutrition	17		Jardon
17	Practical Clinical Pharmacology	16		Apley
18	Grazing Mgt. for Dairy Herds	16-17		Gerloff
19A-C	Introductory Internet	16-18		Ehrlich
20A-C	Internet II	16-18		Ehrlich
21	Bovine Lameness	16-17		Shearer
22	Dairy Facilities	16-17		Bickert
23	Johne's Disease	17		Whitlock
24	How to Help Your Clients Solve Their People Problems	16		Maloney
25	Looking Forward to Practice	18		DesCôteaux



TOURS

TOUR 1

Montréal C'est Magnifique
Wednesday, September 17, 2:00 p.m. - 5:00 p.m.
Fee: \$19 (US) \$25 (CAN)

TOUR 2

**Old Montreal Walking Tour with
 Pointe-a-Callière Archeology Museum**
Wednesday, September 17, 1:00 p.m. - 5:00 p.m.
Fee: \$24.50 (US) \$32 (CAN)

TOUR 3

Montréal C'est Magnifique
Thursday, September 18, 9:00 a.m. - 12:00 noon
Fee: \$19 (US) \$25 (CAN)

TOUR 4

Laurentian Mountains Excursion
Thursday, September 18, 9:00 a.m. - 5:00 p.m.
Fee: \$63.50 (US) \$84.00 (CAN)

TOUR 5

**Gourmet French Cuisine
Cooking Lesson**
Friday, September 19, 9:30 a.m. - 1:00 p.m.
Fee: \$81.00 (US) \$105.00 (CAN)

TOUR 6

Folk Quebec Luncheon
Friday, September 19, 10:30 a.m. - 3:00 p.m.
Fee: \$61.50 (US) \$81.50 (CAN)

TOUR 7

Montreal Botanical Gardens & Biodome Visit
Saturday, September 20, 9:00 a.m. - 1:30 p.m.
Fee: \$29.50 (US) \$39.00 (CAN)

MILK / REFRESHMENT BREAKS
throughout the entire meeting
provided by
Protiva, a unit of Monsanto Company

Special Appreciation

The AABP wishes to express our special appreciation to the following for their generous financial support of this meeting:

Bayer

Elanco

Monsanto

Pharmacia - Upjohn

Pioneer

Pfizer

Purina

Rhone Merieux