

# Thirty-Second Annual Conference

of the

American Association of Bovine Practitioners

Nashville, Tennessee

September 23-26, 1999



Come for the country music; come for the city sights; come for the outstanding program; but be sure to come to Nashville!

This program is not-to-be-missed! The AABP is meeting jointly with the Society for Theriogenology (SFT). All registrants for the AABP meeting OR the SFT meeting may participate in the day-long **bovine reproduction seminar** on Friday. Check out the seminar program; **28 seminars**, the most ever, including several new topics as well as some great mainstays of our pre-convention program. **Forty research summaries** will present the cutting edge in bovine health. Again this year, **clinical forums** will give you a chance for small group interaction with the experts. Emerging issues, including environmental management, antimicrobial resistance and food safety will highlight the program. The perennially popular **practice tips** have a new twist this year, inter-district competition, with a new laptop computer to the presenter of the best tip; and you'll be the judge!

Nashville is home to the Grand Old Opry and many other music venues; you'll love the central Tennessee tours. Come and have a good time, come and learn...this AABP meeting is something special!

Tennessee welcomes you to Nashville. We are the Volunteer State, and home of the 1998 NCAA Football National Champions. We hope you enjoy your stay in Nashville. Ten-

nessee is rich in history, heritage, and hospitality. We have attempted to provide a sampling of our history, heritage and agriculture through our tours. Ya'll have a good time.

Walt Guterbock  
AABP president

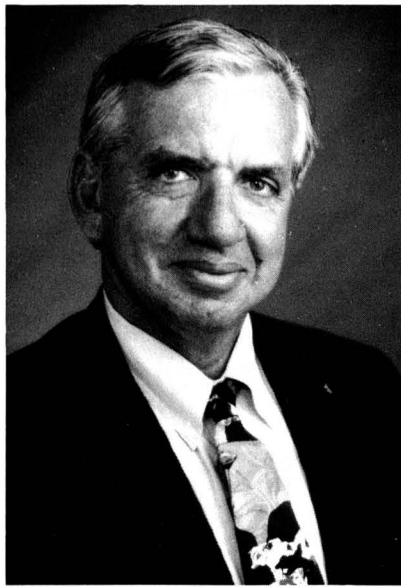
Larry Hutchinson  
Program chair

Charlie Hatcher  
Local arrangements

#### Program Committee

Program Chairman .....	Larry Hutchinson
Seminar Coordinator .....	Rod Sydenham
General Sessions Coordinator .....	Patty Scharko
Dairy Sessions Coordinator .....	Frank Welcome
Cow/Calf Sessions Coordinator .....	Bill Epperson
Feedlot Sessions Coordinator .....	Tim Guichon
Practice Tips Coordinator .....	Meg Cattell
Computer Practice Tips .....	Janet Helms
Research Summaries Coordinator .....	Elaine Hunt
Poster Sessions Coordinator .....	Elaine Hunt
Clinical Forums .....	Walt Guterbock
Local Arrangement Coordinator .....	Charlie Hatcher
Exhibits Manager .....	Sam Hutchins
C.E. Liaison .....	Cary Christensen

## President's Message



**Walter M. Guterbock,**  
*DVM, Scotts, Michigan*

Dear Colleagues:

It has been a pleasure and an honor to serve as President of your organization this year. AABP is an organization that thrives because of the hard work of many volunteers, including your Board of Directors and the Committee Chairs and members. The committee structure of AABP allows issues that come before the Board to be referred to the experts on the appropriate committee, who have the expertise in their subject area to make sound recommendations for Board action. In many cases, Committee Chairs and members have represented AABP before government bodies, for example, in meetings on the antibiotic resistance issue. I thank them for their efforts.

AABP's primary mission is continuing education for its members. Our primary ways of delivering continuing education are our annual conference and our publications. This past March we held a regional meeting in Des Moines, in connection with a regional Dairy Science and Animal Science meeting. We hope to find ways to bring continuing education to those who cannot attend the annual conference.

One active CE forum is AABP-L, our electronic bulletin board. AABP-L reaches over a quarter of our members, and is a lively and interesting forum of discussion on bovine medicine. We have contributors from all over the world. I personally have learned a lot from other practitioners' contributions on AABP-L, and it's a lot of fun, besides. I highly recommend that those of you who have email capability try it out. The volume of messages can be managed by receiving them in one daily message (the digest option). Call the Rome office for information on how to sign up.

Many other organizations and government agencies look to AABP for input on issues that concern the cattle

industry and bovine practice. AABP's positions on issues are determined by the Board of Directors, but needs input from members on many of these issues which will concern your clients and affect your practice. I will try to summarize the main issues that face us this year. The opinions expressed are my own, and not necessarily those of AABP.

The biggest issue that has confronted us since I was elected to the Board is the threat to future availability of antimicrobials for use in food-producing animals posed by regulatory efforts to reduce antimicrobial resistance in human pathogens. No one can deny that antimicrobial use exerts selection pressure on microbial populations that allows resistant organisms to survive.

Most antimicrobial resistance in human pathogens is caused by the prescribing practices of physicians. We as a profession cannot escape partial responsibility for resistance in pathogens, such as Salmonella, that are primarily associated with consumption of foods of animal origin. However the sweeping prohibitions that are being proposed by some in CDC are based on scanty data, on imprecise definitions of resistance, and on some serious misconceptions about how antimicrobials are used in cattle. It is important that we challenge the misinformation and the dubious science with more than platitudes about America's safe food supply and reducing animal suffering. AABP members like Mike Apley have led the charge for rationality in making these decisions, but we need reinforcements. The rules already proposed for monitoring antimicrobial resistance will make the development of new antimicrobials for food-producing animals much less profitable, and threatens the availability of both therapeutic and subtherapeutic antimicrobials, even those that have no human health effect whatever. Attempts are being made to institute formularies for veterinarians that would dictate the order in which you would use antimicrobials in fighting a disease outbreak—that is, you start with drug A, and you only go to drug B if A does not work or is contraindicated by sensitivity results. Inform yourself on this issue and make your views known to regulatory and elected officials. Your input can make a difference, and apathy will result in changes in practice that most of us will not like, dictated by people who do not understand the cattle industry or bovine practice. In the meantime, make sure that your practice and your clients are using antimicrobials responsibly and are not part of the problem.

Another initiative on the horizon that will affect us and our clients is a move to have a unique identifier for every bovine animal in the country. The dream is to have a database in which every animal can be traced back to the farm where it was born. While this could have some very positive effects, for example in correlating performance of cattle with their source and in tracing pathogens, it also, in my opinion, includes some very impractical ideas. Every animal would have to be identified at birth, and then all of its movements reported. This means every steer on every truck that enters a large Texas feed yard



would have to have its identity checked and then reported to some national body. A large dairy farm would have to identify and report the disposition of every bull calf. How can this work in extensive grazing systems in the Southwestern deserts, where animals may not be seen by management for months? Who would pay for all of the data entry and record maintenance, even with electronic identification technology? As with the antimicrobial resistance issue, we are being asked to emulate the European example, but our cattle industry is very different and far more decentralized than those of the European countries I have visited. These proposals are in their embryonic stages, but we need to make our views known now or put up with policies we may not like. Your Board of Directors has asked Mike Anderson to chair an ad-hoc committee to investigate this issue, and named Jake Hines as our liaison with the Livestock Conservation Institute, which is the main body working on this identification system.

Biosecurity has become a buzzword recently, and it is certainly a concept that most veterinarians would view favorably. As the movement to trace human pathogens back to the farm of origin gathers strength, it will be more important for each producer to control those pathogens on the farm and keep them from entering. Monitoring and controlling pathogens in the herd will be one role of the veterinarians of the future. One problem, however, is that the prevalence of many of the pathogens of regulatory interest, such as *E coli* 0157H7, is relatively small in the herds that have been studied. This means that by the laws of probability, any testing program applied to large numbers of animals, even with very specific and sensitive tests, will yield mostly false positives. I believe that we as a profession need to call attention to the fact that most of these pathogens thrive in animals that are already compromised. *Salmonella*, for example, has difficulty surviving in a healthy rumen but can survive better in the rumen of a dairy cow with rumen acidosis. Production medicine, improving the well-being and nutrition of the animals on the farm, is an important part of food safety, because healthy animals harbor fewer pathogens, and because fewer antimicrobials have to be used in a healthy population. We should remember that every production system represents a niche in which certain pathogens can survive. If we eradicate one pathogen, another will likely take its place. It is far more productive to optimize a production system so that prevalence of pathogens and the expression of the diseases they cause are kept low.

Part of the biosecurity movement is a growing effort to increase the awareness of Johne's disease among both veterinarians and producers. In case you haven't noticed, there is scarcely a veterinary meeting in the country that does not have a Johne's talk in it somewhere. There is no doubt that Johne's has been devastating to some producers, and if a connection between Johne's in cattle and Crohn's disease in people is ever definitively established, the cattle

industry will have to address Johne's aggressively.

In the meantime, I believe we need to ask ourselves if we really want to mount a national eradication program. The model that is being proposed is pseudorabies eradication in swine, which started out as a voluntary program and then became national and compulsory. As voluntary programs succeed, pressure grows to increase regulatory involvement because the cooperating producers need assurance that the certification of disease-free status really means something. Why Johne's, and not some other economically important disease? If Johne's is of economic importance, then why not let economic pressure be the motivating force for controlling it, rather than committing substantial public funds to the effort? Does the American public really have a compelling need for us to eradicate Johne's? A nationwide program would certainly be a boon to veterinary practice, as brucellosis and hog cholera eradication were. Again, your Board of Directors needs your input as we respond to initiatives in this area.

Within AABP, there has been tremendous effort over the last five years to increase the organization's financial strength. Through the efforts of Jim Jarrett and his staff, our treasurer Roger Saltman, and your Board, notably Del Miles, Paul Johnson, John Ferry, and Gatz Riddell, budgeting and financial management have been tightened and refined. Jim Jarrett has increased greatly the financial contributions from industry to our organization. The happy result is that we now have substantial reserve funds. Your Board has approved an investment policy that will preserve capital while providing income to increase member services and improve our delivery of continuing education. We now need to start thinking strategically, to figure out how we can use these resources to benefit the veterinarians and the bovine industries of the future. Again, we need your ideas and input to help us do this. How can we encourage veterinary students to enter bovine practice? How can we encourage early career practitioners to stay in bovine practice, and how can we make continuing education more accessible to them? How can we help practitioners overcome the isolation that is almost an integral part of a rural profession?

Despite low commodity prices and the consolidation occurring in the livestock industry, this is an exciting time to be in bovine practice. Producers need your help to improve their efficiency so that they can survive. The cattle are depending on you to help them lead productive and happy lives. AABP needs your help as it faces the challenges of the new millennium. Let us hear from you!

See you in Nashville!

Walt Guterbock  
President

# The Program

Wednesday, September 22, 1999  
6:00 – 8:00 PM

## WELCOMING RECEPTION

Location: Renaissance Hotel Grand Ballroom  
Hosted by the Program Committee

Get oriented with the Convention facility and city, plan your Convention activities and relax and visit at your leisure with friends and colleagues. Members of the Program Committee will be in attendance to answer your questions about the program, as will the tour group, convention bureau, event planner, and local veterinarians. People familiar with Nashville will be there to answer your questions about the city. A cash bar will be open; soft drinks will be provided at no charge. This will be a great place to meet your friends before the conference!

Wednesday, September 22, 1999

3:00 – 5:00 - AABP CLINICAL FORUMS

Location: To be posted at registration desk

Tired of slide lectures in dark rooms? Got questions you're afraid to ask in front of a crowd? Join your colleagues and an expert moderator in an extended discussion of a topic that really interests you! AABP Clinical Forums allow small groups of members to discuss topics of mutual interest with experts and colleagues. The moderator will bring some material to get the discussion going, but after that the floor is open for you and your colleagues to share questions, advice, experiences, practice tips and war stories! Clinical forums will meet from 3-5 PM on Wednesday, September 22 and 10 AM-12 Noon on Thursday, September 23. **All forums have an enrollment limit of 20 and a fee of \$20 per participant. Note: Some Clinical Forums will be offered on both Wednesday and Thursday; others only on one day.**

1. **Diagnosing Nutritional Causes of Infertility in Dairy Herds** – James Ferguson, University of Pennsylvania
2. **Clinical Lameness: Causes and corrective procedures** – Sarel Van Amstel, University of Tennessee
3. **Using Dairycomp 305 to Evaluate Dairy Herd Performance** – Steve Eicker, Ithaca, NY, and Connor Jameson, Tulare, CA
4. **Clinical Mastitis Therapy** – Jerry Roberson, Virginia Tech
5. **Managing the Postpartum uterus to prevent toxic metritis and improve production** – Carlos Risco, University of Florida
6. **Designing a Vaccination Program** – Vic Cortese, Pfizer Animal Health

Thursday, September 23, 1999  
10:00 AM – 12:00 Noon

7. **Using PCDart to Evaluate Dairy Herd Performance** – Richard Wallace – University of Illinois, and Mark Kirkpatrick, Iowa State University

8. **Dry Cow Nutrition** – Jesse Goff, Ames, IA
9. **Using DHIPlus to Measure Herd Performance** – Stephen Smith, DHI Computing Services
10. **Using Dairycomp 305 to Evaluate Dairy Herd Performance** – Steve Eicker, Ithaca, NY, and Connor Jameson, Tulare, CA
11. **Clinical Mastitis Therapy** – Jerry Roberson, Virginia Tech
12. **Troubleshooting Obstetrical Problems** – Maarten Drost, University of Florida
13. **Improving Cow Comfort in Freestall Barns** – Gordon Jones, Monsanto Dairy Business
14. **Designing a Vaccination Program** – Vic Cortese, Pfizer Animal Health
15. **Preventing Neospora Abortion** – Milton McAllister, University of Illinois

10:00 AM– 6:45 PM

## SOFTWARE LIBRARY

Location: Exhibit area

Coordinator: Dr. Tim Cuchna

The AABP Software Library is composed of freely-copiable software programs. It will be available to members all day, Thursday, September 24. 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.

12:00 Noon – 1:00 PM

Lunch available in the exhibit area

1:00 PM – 7:00 PM

## POSTER SESSIONS

Presenters available for Questions 2-3 PM

Location: West Exhibit Hall

## GENERAL SESSIONS

**The Role of the Veterinarian in Animal Well Being**

Location: To be posted at registration desk

Moderator: Dr. Larry Hutchinson

- 1:00 - 1:45 Focus on confinement and proper care of animals - **Dr. Roger Blowey**
- 1:45 - 2:30 Focus on environmental concerns: nutrient/manure management - **Dr. Deanne Meyer**

- 2:30 - 3:00 Refreshment break
- 3:00 - 3:45 Focus on public health concerns -  
**Dr. Thomas E. Besser**
- 3:45 - 4:30 Focus on food safety in the future -  
**Dr. Don Hansen**
- 4:30 - 5:00 Discussion and questions
- 3:00 - 5:15 Research Summaries**

**Session I - Mammary Health & Milk Quality**  
**Location: Convention Center 103 & 104**  
**Moderators: Tracy Ward and Dan Grooms**

**Session II - Infectious, Parasitic & Reproductive Disease of Dairy Cows**  
**Location: Convention Center 108 & 109**  
**Moderators: Ruth Blauwiekel and Lorin Warnick**

**5:15 - 6:45 PM Reception in Exhibit Area**

**PRACTICE TIPS**

**Location: Convention Center - Center Exhibit Hall**  
**Moderator: Hugh McCampbell**

- 7:00 - 7:20 Introductions, Presentation of Program Committee, Research Assistantship Grant
- 7:20 - 7:32 Region II Pocket Poker and Nose Lead Pulley - **Don Gardner**
- 7:32 - 7:44 Region III Teaser Bulls-Ring 'em up -  
**Jim Floyd**
- 7:44 - 7:56 Region IV Methods to Ease the C-section procedure - **David Anderson**
- 7:56 - 8:08 Region VI Measure Pressure of Fetal Extraction - **Mel Pence**
- 8:08 - 8:20 Region VII Portable Palpation and Farm Record Organizers - **Dave Prigel**
- 8:20 - 8:32 Region VIII Perineal or Poo poo Owie -  
**Bob Smith**
- 8:32 - 8:44 Region IX Custom-made Pistol Syringe Cooler - **Andrew Peterson**
- 8:44 - 8:56 Region X IV Fluids Made Farm Friendly -  
**Gina DeChant**
- 8:56 - 9:08 Region XI Claw Amputations-It's a Wrap -  
**Craig Johnson**
- 9:08 - 9:20 Region XIIA Fistful of Rumens Fistula -  
**Todd Duffield**

**Friday, September 24, 1999**  
**9:00 AM - EXHIBITS OPEN**

**8:00 AM - 12:00 Noon**  
**GENERAL SESSION**  
**Prudent Antimicrobial Use**  
**Location: Center Exhibit Hall**  
**Moderator: Dr. Mike Apley**

- 8:00 - 8:45 NAHMS results: Antimicrobial susceptibility among enteric organisms -  
**Dr. David Dargatz**
- 8:45 - 9:30 Measuring antimicrobial resistance -  
**Dr. Kathy Ewert**
- 9:30 - 10:15 Extralabel drug use; legalities -  
**Dr. Steve Sundlof**

- 10:15 - 10:45 Refreshment break
- 10:45 - 11:15 Antimicrobial resistance: Perspective from the Centers for Disease Control and Prevention - **Dr. David Bell**
- 11:15 - 11:45 Making AMDUCA work in my practice -  
**Dr. David Rhoda**
- 11:45 - 12:00 Update on the Veterinary Antimicrobial Decision System - **Dr. Mike Apley**  
Discussion

**8:00 AM - 12:45 PM**  
**AABP/SFT JOINT SESSION**

**Reproduction in the Preventive Medicine Programs of the 21st Century**  
**Location: Convention Center 204 & 205**  
**Moderator: TBA**

- 8:00 - 10:00 Computer records and reproductive forecasting - **Jim Ferguson**
- 10:00 - 10:30 Break
- 10:30 - 11:15 Nutrition and reproduction in the postpartum cow - **Carlos Risco**
- 11:15 - Noon Strategies to improve fertility -  
**Maarten Drost**
- Noon - 12:45 Abortion investigations - **Mark Kinsel**
- 11:45 - 1:30 Lunch available in exhibit area**

**AABP/SFT JOINT SESSION**  
**Reproduction in the Preventive Medicine Programs of the 21st Century (continued)**  
**Location: Convention Center 204 & 205**  
**Moderator: TBA**

- 2:00 - 2:45 Neospora update - **Mark Anderson**
- 2:45 - 3:30 Vaccinations to optimize reproductive efficiency - **Vic Cortese**
- 3:30 - 4:00 Break
- 4:00 - 4:45 Neonatal calf management - **Tom Besser**

**4:45 - 5:00**  
**DISCUSSION AND QUESTIONS**

**1:30 - 5:00 PM**  
**RESEARCH SUMMARIES**

**Session I - Neonatal and Feeder Calf Health**  
**Location: Convention Center 103 & 104**  
**Moderators: Dale Grotelueschen and Mike Sanderson**

**Session II - Infectious, Parasitic and Reproductive Diseases of Dairy Cows**  
**Location: Convention Center 206**  
**Moderators: Dale Moore and Gina DeChant**

**1:30 - 5:30 PM**  
**COMPUTER PRACTICE TIPS**  
**Location: To be posted at Registration Desk**  
**Moderator: Janet Helms**

- 1:30 - 1:55 Computer Hardware, What to look for when buying a computer- **Bruce Broderson**

- 1:55 - 2:20 Computer Gadgets and Devices for the Road Warrior – **Richard Wallace**
- 2:20 - 2:45 Piloting your Practice: Using the PalmPilot – **Jon Higgins**
- 2:45 - 3:20 Creative Web Page Design: A Quick Look – **Dagny Leininger**
- 3:20 - 3:50 Break
- 3:50 - 4:25 Mining the Web: How to find the information you need – **Virginia Fajt**
- 4:25 - 4:50 Got Records? Get Milk! Improving milk production for fun and profit - **David Prigel**
- 4:50 - 5:15 Y2Konly: Is your computer ready for the New Year? – **Dan Little**
- 5:15 - 5:30 Discussion and Questions

**Saturday, September 25, 1999**

**8:00 AM – 12:00 Noon  
DAIRY SESSION**

**Mastitis**  
**Location: Center Exhibit Hall**  
**Moderator: Frank Welcome**

- 8:00 – 8:50 Role of the Immune System in the Control and Treatment of Mastitis – **Marcus Kehrli**
- 8:50 – 9:40 Management Alternatives in Mastitis Control and Eradication Programs – **Phil Sears**
- 9:40 – 10:00 Break
- 10:00 – 10:50 Treatment of Clinical Mastitis: Historical and New Perspectives – **Dawn Morin**
- 10:50 – 11:40 Biosecurity for Contagious Mastitis and HACCP in Dairy Expansions – **James Cullor**
- 11:40 – 12:00 Discussion and Questions

**8:00 AM – 12:00 Noon  
BEEF SESSION**

**Antimicrobial Resistance in Beef Practice –  
The Role of the Veterinarian**  
**Location: Convention Center 204 & 205**  
**Moderator: Kee Jim**

- 8:00 – 8:15 Introduction of the Issues – **Kee Jim**
- 8:15 – 9:00 Antimicrobial Resistance – What is it all about? – **John Prescott**
- 9:00 – 9:45 Are Current Production Practices Causing Resistance? – **Otto Radostits**
- 9:45 – 10:15 Break
- 10:15 – 11:00 HACCP – Its Application Pre and Post Harvest – **Curtis Kastner**
- 11:00 – 11:30 Panel Discussion and Questions

**12:00 – 2:00 PM**  
**AABP ANNUAL BUSINESS MEETING  
& AWARDS LUNCHEON**  
**Location: Renaissance Hotel Grand Ballroom**  
**(Admission included in Registration fee)**  
**Sponsored in part by a grant from:**  
**West Agro, Alpha, Pioneer Hybrid**

**Saturday, September 25, 1999**

**2:00 – 5:00 PM**  
**DAIRY SESSION**  
**Location: Center Exhibit Hall**  
**Moderator: John McDermott**

- 2:00 – 2:45 Clostridium Perfringens Type A Infection in Cattle – **Glen Songer**
- 2:45 – 3:30 Botulism Toxicosis of Cattle – **Bob Whitlock**
- 3:30 – 5:00 Ruminant disorders associated with pathogens found within ensiled forages and Coping with Catastrophic ensiled forage losses; case studies – **William Seglar**

**2:00 – 5:00 PM**  
**COW-CALF SESSION**  
**Location: Convention Center 204 & 205**  
**Moderator: David Smith & Dale Miskimins**

- 2:00 – 3:00 New Therapies for Calf Diarrhea – **Elaine Hunt**
- 3:00 – 4:00 Environmental and Management Considerations in Controlling Calf Diarrhea – **Dee Whittier**
- 4:00 – 5:00 A Case Study in Diarrhea – **Jim Adams**

**2:00 – 5:00 PM**  
**FEEDLOT SESSIONS**  
**Antimicrobial Resistance**  
**Location: Convention Center 206**  
**Moderator: Del Miles**

- 2:00 – 3:00 Economic Impact of Antimicrobial Use in Feed Lots – **Calvin Booker**
- 3:00 – 4:00 Monitoring Resistance: Feedlot Records – **Paul Morley**
- 4:00 – 5:00 Using Feedlot Records to Control Antimicrobial Resistance – **Joyce Van Donkersgoed**

**RESEARCH SUMMARIES**  
**Thursday – 3:00 – 5:00 PM**

**Session I – Mammary Health and Milk Quality**  
**Location: Convention Center 103 & 104**  
**Moderators: Tracy Ward and Dan Grooms**

1. Use of ultrasound to determine the prognosis of obstructed teats—H Dobson and DA Stark
2. Milk yield, somatic cell counts and risk of removal from the herd for dairy cows after covered teat canal injury—K Querengässer, T Geishauser, M Nitschke
3. Factors affecting the adherence of a dry cow teat sealant—KE Leslie, KJ Day, J TenHag, DF Kelton, TF Duffield, and TL Kerbler
4. Ultrasonographic evaluation of exogenous isobutane gas in the mammary gland of cows—Steven S. Trostle, Robert T. O'Brien, Jerks Britt, Kenneth R. Waller
5. Evaluation of the test characteristics of the HyMast® bacteriological test system—JT Jansen, DF Kelton, KE Leslie, J TenHag, and A Bashiri
6. Milking management and bulk milk iodine concentrations



- in Ontario dairy herds—KL Leslie, DF Kelton, LC Wagter, KJ Day, DL Storey, J Melicherick, and MA Godkin
7. Evaluation of bulk tank culture for the identification of major contagious mastitis pathogens on dairy farms—D Kelton, D Alves, N Smart, A Godkin, and P Darden
8. The relationship between antibiotic residues and bulk tank somatic cell count in Wisconsin dairy herds—PL Ruegg and TJ Tabone

**Session II – Dairy Metabolic and Nutritional Topics**  
**Thursday – 3:00 – 5:00 PM**

**Location: Convention Center 108 & 109**

**Moderators: Ruth Blauwiekel and Lorin Warnick**

1. Results of an observational study describing the relationship between milk urea concentrations and feeding management and performance in Ontario dairy herds—Sandra Godden, Kerry Lissemore, David Kelton, Ken Leslie, John Lumsden, and John Walton
2. Milk urea nitrogen and infertility in Florida dairy cows—MV Pedro Melendez, Art Donovan, and Jorge Hernandez
3. Milk urea and protein concentrations in milk of dairy cows as a diagnostic tool: factors affecting analysis and interpretation—R Eicher, E Bouchard, M Bigras-Poulin, and A Tremblay
4. Effect of prepartum crude protein level on performance of primiparous Holstein cows—JEP Santos, PW Jardon, EJ DePeters, and JT Huber
5. Effect of prepartum crude protein level on performance of multiparous Holstein cows—JEP Santos, PW Jardon, EJ DePeters, and JT Huber
6. Housing and feeding related risk factors for abomasal displacement and cecal dilatation/dislocation in dairy cows—R Eicher, L Audigé, U Braun, J Blum, and A Steiner
7. Prevention and prediction of displaced abomasum in dairy cows—T Geishausser, K Leslie, and T Duffield
8. Cow-side milk tests for subclinical ketosis—T Geishausser, K Leslie, T Duffield, and D Kelton

**RESEARCH SUMMARIES**

**Friday – 1:30 – 5:00 PM**

**Session I - Neonatal and Feeder Calf Health**

**Location: Convention Center 103 & 104**

**Moderators: Dale Grotelueschen & Mike Sanderson**

1. Risk assessment and strategic management for the reduced incidence of neonatal calf diarrhea—Mel Pence and John U. Thomson
2. Levels of D- and L-lactate in rumen liquid, blood, and urine in calves with and without evidence of ruminal drinking—T Grude, I Lorenz, G Rademacher, A Gentile, and W Klee
3. Fallibility of measurement of strong ion differences for evaluation of acid-base status in diarrhoeic calves—DH Grove-White and AR Michell
4. Dynamics of colostral IgG<sub>1</sub> absorption in beef calves after bottle feeding, stomach tubing and dam suckling—L Hungerford, R Dewell, G Dewell, G Rupp, W Laegreid, and K Shuck
5. Protection of calves against cryptosporidiosis with immune bovine colostrum—Shila J. Kapil, Michael L. Jones, Elaine L. Hunt, and Lance E. Perryman
6. Development of a model for use in pharmaceutical trials: induced pasteurilla pneumonia and body temperature telem-

etry in weaned beef calves—Virginia R. Fajt, Michael D Apley, Kim A Brogden, Terry L Skogerboe

7. Evaluating *Salmonella* shedding in backgrounded calves fed broiler litter—Dawn J Capucille, Matthew H Poore, Craig Altier, and Glenn M. Rogers
8. Relationship of *Pasteurella* spp. isolated from paired nasal and transtracheal swabs from calves with clinical signs of bovine respiratory disease (BRD)—GD Mechor, D DeRosa, JJ Staats, MM Chengappa, and TR Shryock
9. The association between bovine corona virus seroconversion, treatment rates and weight gain in feedlot calves—Annette O'Connor, Wayne Martin, and Eva Nagy
10. An evaluation of the timing of pre-breeding vaccination with a modified live virus vaccine and its effect on fertility in beef cattle (98-10)—John Campbell, Doug Myers
11. The use of flunixin meglumine as adjunct therapy for bovine respiratory disease in stocker cattle—DH Hellwig, EB Kegley, Z Johnson, and B Hunsaker
12. Amelioration of the toxic effects of 4-ipomeanol in mice by fermentation of mold-damaged sweet potatoes—Michael S. Thibodeau, Glenn M. Rogers, Matthew H. Poore, and Winston M. Hagler, Jr.
13. Economic decision model to optimize culling decisions for beef brood cows at weaning—BW Rohrbach, AW Jalvingh, JR Stokes, AA Dijkhuizen

**Session II – Infectious, Parasitic and Reproductive**  
**Disease of Dairy Cows**

**Friday – 1:30 – 5:00 PM**

**Location: Convention Center 206**

**Moderators: Dale Moore and Gina DeChant**

1. Use of an ELISA to monitor internal parasite burdens in dairy cows—Javier Guitian, Greg Keefe, and Ian Dohoo
2. Effect of eprinomectin treatment at fall housing on milk production of dairy cows in Québec—Jérôme Carrier and Luc DesCôteaux
3. Effect of monensin on milk production parameters, feed intake, body weight, body condition, and efficiency of milk production when fed to Holsteins—HB Green, JT Symanowski, JR Wagner, JID Wilkinson, and DG McClary
4. Epidemiology of neospora infection in Ontario Holstein dairy cows—T Duffield, A Peregrine, B McEwen, and S Hietala
5. Early Conception Factor (ECF) Dipstick Test™ for non-conception determination in cattle—WR Threlfall and GM Bilderbeck
6. Evaluation of the Early Conception Factor (ECF™) test in cows 3–7 days post-breeding—CS Adams and PW Jardon
7. The repeat breeder syndrome and its associated risk factors in Québec dairy cows—Virginie Filteau, Émile Bouchard, Michel Bigras Poulin, and Denis DuTremblay
8. Effect of D-calcium pantothenate administered between 20 days antepartum and 70 days postpartum on the postpartum adrenocortical and ovarian functions in dairy cows—Toshihiko Nakao, Yuji Uchida, Takamasa Fukuda, Masaharu Moriyoshi, and Ken Nakada
9. Dual infection of the bovine fetus with bovine viral diarrhea virus (BVDV) type 1 and type 2: can it happen and what are the implications for vaccination?—CCL Chase, LJ Braun and KV Brock
10. Epidemiology of *Salmonella* fecal shedding in subclinically infected dairy herds—Carla L. Taylor and Thomas E. Wittum

11. New diagnostic, cow side test for Johne's Disease in cattle—RW Sweeney, JH Crabb, and RH Whitlock
12. Clinical effect of local antibiotic treatment of digital dermatitis lesions and detection of spirochetes by means of PCR—M. Dreher, D. Döpfer, T. Mumba, M. Plas, C. Zwaagstra, K. Ames, P. Sears, M. Wadell

#### RESEARCH SUMMARIES: POSTER SESSION

Posters will be displayed during the following hours:

**Thursday, September 23, 1:00 PM-7:00 PM**

Presenters available for questions from 2:00 PM - 3:00 PM

1. Evaluation of the impact of parasite control with the IVOMEC® SR bolus given at breeding age on first lactation yield in Holstein heifers—Luc DesCôteaux, Vincent Caldwell, and Michèle Doucet
2. Biosecurity practices to limit spread of *Staphylococcus aureus* on Ontario sentinel dairy farms—A Godkin, D Kelton, D Alves, K Lissemore, K Leslie, N Smart, C Church, and P Meadows
3. Antibiotic administration and vaccination with modified live *Pasteurella haemolytica* and *multocida* vaccine in calves—Carl A. Guthrie, Robert W. Fulton, and Anthony W. Confer
4. Prevalence of major mastitis pathogens on Ontario sentinel dairy farms—D Kelton, A Godkin, D Alves, K Lissemore, K Leslie, N Smart, C Church, and P Meadows
5. Penicillin residues in milk following subconjunctival injection of procaine penicillin G—K Liljebjelke, LD Warnick, and MF Witt
6. Economic evaluation of deworming strategies for cow-calf herds—BE Stromberg, TL Skogerboe, and RS Rew
7. Penicillin G residues detected by HPLC and screening tests in tissue of calves fed spiked milk replacer—JMB Musser, KL Anderson, and RL Lyman
8. Efficacy of different dosage levels and routes of inoculation of tilmicosin (Micotil) in a natural outbreak of infectious bovine keratoconjunctivitis—GC Zielinski, HG Piscitelli, H Perez-Monti

#### TOUR SCHEDULE

**9/21/99 - 9/25/99**

##### Tuesday - 9/21/99

- 8:00 AM - 5:00 PM Dairy Farm Tour with Box Lunch - North Dairies
- 8:00 AM - 12:00 noon Horse Farm Tour
- 9:00 AM - 5:00 PM Jack Daniel Distillery Tour with Lunch
- 2:00 PM - 5:00 PM Discover Music City Tour

##### Wednesday - 9/22/99

- 8:00 AM - 5:00 PM Dairy Farm Tour with Box Lunch - South Dairies
- 8:00 AM - 5:00 PM Beef Farm Tour with Box Lunch
- 8:30 AM - 1:30 PM Historic Mansions Tour with Lunch
- 9:30 AM - 4:00 PM Historic Franklin Tour with Lunch

##### Thursday - 9/23/99

- 9:00 AM - 5:00 PM Jack Daniel Distillery Tour with Lunch
- 11:00 AM - 3:00 PM General Jackson Showboat Lunch Cruise

##### Friday - 9/24/99

- 8:30 AM - 1:00 PM Discover Music City Tour
- 1:00 PM - 5:00 PM Stars' Home Tour and Walking Tour of Opryland Hotel

##### Saturday - 9/25/99

- 5:45 PM - 9:45 PM Grand Ole Opry Performance
- 7:00 PM - 12:30 AM Grand Ole Opry Performance with Dinner at Cock of the Walk



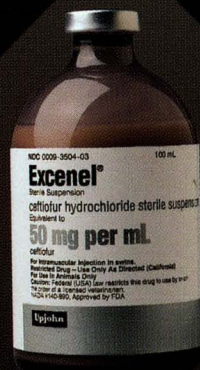




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