



WCABP

Western Canadian Association
of Bovine Practitioners



newsletter

Volume 16 No.1 March 2009

President's Report — *A Change in Season*



*There is a time for everything,
and a season for every activity under heaven*

Ecclesiastes 3:1

As you receive this newsletter I hope that we are beginning to see the change into a new season. March is often the first taste of spring in Western Canada, although it can also be the last grip of winter. One of the overriding themes that I took out of the WCABP Conference this year was that of change. Coming from the perspective of the average mixed animal practitioner in Western Canada, it looks like we may be entering a new season. The way we practice has changed dramatically in the last few years. The demand for individual animal medicine from our clients has decreased significantly. Many practices have filled that hole with work on companion animals. But what should those of us do that still like working with cows?

Brad White spoke most eloquently on this subject. Looking at different ways of offering services to our clients that not only benefits us, but benefits their operation as well. The Conference this year offered a wealth of ideas to help practitioners offer "out of the box" services. From heifer development programs, to determining profit on an individual animal basis, to synchronization programs. These types of programs are a departure from our traditional way of practicing veterinary medicine, but they offer great opportunities for the future. Using technicians more fully to help offer these programs was also discussed. Implementing change is never an easy

proposition. However, it seems now more than ever that our future prosperity as bovine veterinarians is reliant on the prosperity of the clients that we serve. I hope that veterinarians across Western Canada can be instrumental in ensuring that prosperity.

From the reviews we received the Conference was once again a success. Two new features this year, the wet labs and student presentations were very well received. The quality of presentation from the students was excellent. The wet labs again provided opportunities for value-added services such as nutrition counseling, advanced diagnostics, ultrasound and foot care. Phyllis and Deborah worked overtime to help offer this more logistically challenging program, so we would like to extend a big thank you to them. Ray Butler also was heavily involved behind the scenes, so a thank you to him as well. As an Association we strive to offer the best quality continuing education possible, and I hope that we are living up to that mandate.

Current issues before the Board are the changes to the Own Use Importation Policy, improving mentorship with students, and attracting new members. Any and all comments from the membership are welcome. I look forward to serving as your President for the coming year. 🐾

Respectfully submitted
Trent Wennkamp



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Secretary-Treasurer's Report



The old adage "the only that is constant is change" is certainly true of the WCABP and the livestock industries that we service. However, before I get into specifics I would like to thank Dr. Melodie Chan and

the rest of the Board for this past year. I have been fortunate over my years as Secretary-Treasurer to have worked with a lot of great people and this last year was no exception. Once again it was a pleasure to work with and for the WCABP. A special thank you to Phyllis Mierau who makes my job so enjoyable and who takes care of all the day-to-day tasks that keeps the Association working. Lastly, thank you to Deborah Beddome who looks after all our accounting and investing activities.

Membership

	2007/08	2006/07	2005/06	2004/05	2003/04
Active	238	251	245	252	265
Student	34	83	68	112	61
Life	3	3	5	5	5
TOTAL	275	337	318	369	331

This last year began with a very successful Annual Conference which was held in Calgary. The Conference was well attended and turned a profit of approximately \$12,500. Following the Conference the Board and a number of past-Presidents met for a two-day Strategic Planning Session, the first such meeting since the inception of the WCABP. The impetus for this meeting was in part driven by the creation of the Canadian Association of Bovine Veterinarians (CABV). It became clear from our Strategic Planning session that bovine issues with a national perspective should be referred to the CABV, which is a significant departure from what has historically occurred. This has resulted in an off-loading of some work to the CABV, allowing us to concentrate on issues and programs that are specific to our members.

On the financial front, the WCABP continues to enjoy a very healthy balance sheet. We have approximately \$45,000 in working capital in our chequing account and ING savings account (cash in an ING account) and ~\$52,000 in two term certificates. These deposits are 2-year GICs and are staggered so that we are renewing one term each year. We renewed our

initial term (\$25,000 plus interest) this past November for another 2 years at 4.40%. While we turned a profit on the Conference we ended the 2007-2008 fiscal year with a deficit of ~\$9,000, which is the first deficit in a number of years. This can be largely attributed to the one-time cost of hosting the Strategic Planning Session, which cost ~\$15,000. Going forward, we have budgeted for a break-even in the coming year; however, this is a conservative budget and does not include the \$10,000 ACAAF grant, which we have received for the last 4 years.

This last year also saw some structural changes in regards to Phyllis Mierau's position as Administrator. Historically, K3 Consulting Inc. was contracted to provide office management services to the Association, of which Phyllis was an employee. In time, K3 dropped this contract, which Phyllis then assumed under

a separate entity. In the last year, Melodie Chan chaired a Compensation Committee (Iye Perrett, Doug Mann, Trent Wennekamp) to review the compensation paid to both Phyllis and I. The Board received and accepted this report in September. In short, rather than contracting individual services for day-to-day operations, regional meetings, and the Conference, Phyllis now receives a single monthly wage to cover all of her time. This has streamlined operations and has made the budgetary process much simpler.

Finally, the table provides a snapshot of how our membership numbers have changed over the years. Yearly fluctuations, particularly with the student numbers, can be attributed to holding the Conference in Saskatoon versus Calgary. The overall trend, however, is for a reduction in membership numbers. This is of concern to the Board and has been discussed at both the Board level and by the Forward Planning Committee. The reality is that we can probably expect to see a gradual decline in membership numbers for the foreseeable future 🐾

Kind regards,
Murray Jelinski

meetings of interest

June 18-20, 2009 SVMA 2009 Conference and AGM

Delta Regina, Regina, SK.
Email: svma@svma.sk.ca

June 18-21, 2009 Pacific Veterinary Conference

(sponsored by the California Veterinary Medical Association), Anaheim, California. Sessions for veterinarians, veterinary technicians, practice managers, and veterinary staff. Dynamic sessions led by well-known speakers. Conference includes labs and a two-day Vet Expo. Contact: Shirley Ingleston (916-649-0599); email singleston@cvma.net; www.pacvet.net.

July 7-9, 2009 International Conference on Bovine Mycoplasmosis Delta

Bessborough, Saskatoon, SK, Canada. Presentations will feature talks from the world's leading authorities on mycoplasmosis in beef and dairy cattle. The conference program has been structured to appeal to a broad cross-section of attendees, including academics, researchers, government veterinarians and food animal practitioners. For more information please visit our website at www.bovinemycoplasma.ca or contact Dr. Murray Jelinski at 306-966-7166.

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Administrator's Report

Since printing of the 2008 December newsletter all energy was devoted to preparing for the 18th Annual WCABP Conference that was held in Saskatoon January 15-17, 2009. This Conference had many different aspects to it and hence presented its own set of challenges, but was a huge success with 181 individuals in attendance! I so enjoy my involvement with this Association and as always, it was a pleasure to see many of you again, as well as make new acquaintances.

Upon returning from the Conference loose ends have been cleaned up, and the Proceedings are now posted on the WCABP website (www.wcabp.com). Contact us for directions on how to access the Members Only section.

After five years, our newsletter graphic designer has retired to raise her family. I welcome our new designer, Michelle Boulton, and look forward to working with her.

If ever in Saskatoon please feel free to drop by our office at any time (112G - 116 Research Drive). Stay warm - spring is around the corner!!

Phyllis Mierau

www.wcabp.com



The WCABP Newsletter is published by the Association as a service to its members. The views expressed in this publication are not necessarily those of WCABP. Correspondence concerning the Newsletter should be directed to the WCABP Office.



New Board Member

Dorothy Krysak is the newest member of the WCABP Board of Directors.

Dorothy was raised on a small cow/calf operation near Krydor, Saskatchewan. After high school, she entered the College of Agriculture at the University of Saskatchewan, continuing on to the WCVM. While at WCVM, Dorothy received several awards, including the Scott Rairdan Memorial Scholarship for Theriogenology, the Roberts Prize for Excellence in Beef Cattle Health Management, and was the first student from WCVM to receive an AABP Amstutz Scholarship. Her case report "Chronic pneumonia and polyarthritis syndrome in a feedlot calf" was published in the Canadian Veterinary Journal in 2006.

Dorothy was actively involved in the WCVM Bovine Club, including becoming President in 2004. Upon graduating from WCVM in 2006, Dorothy completed the Summer Dairy Institute at Cornell University for advanced dairy production training. Dorothy has been an active member of WCABP since entering vet school in 2002. She is currently employed at the Coaldale Veterinary Clinic, an exclusively cattle practice in southern Alberta, focused on feedlot and dairy production medicine.

Outside of veterinary medicine Dorothy enjoys golf, curling, and horseback riding.



Retiring Board Member

The 2009 AGM saw Tracey Logan complete her term on the WCABP Board of Directors. Tracey spent three years on the Board, and sums up her Board experience as follows:

I would like to take this opportunity to thank the WCABP for inviting me to serve on the Board of Directors three years ago. I have enjoyed every minute of it! I also feel very privileged to be a part of the evolution of our Association. We started off with the one goal of providing quality CE and have become a strong voice for our membership's views in this ever-changing world of bovine practice.

Thanks Dorothy for volunteering to take my place. I know you will be a great addition to the Board. Phyllis and Murray ... You are incredibly organized and I hope you know how much you are appreciated. Thanks to all the members I have served with. I will miss our early morning meetings!

Sincerely,
Tracey Logan

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Lost and Found

A "little black book" was left in the meeting room of the Conference on Friday. If anyone has lost this please contact Phyllis at the office (1-866-269-8387).



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Veterinarian of the Year

This year's recipient of the **Boehringer Ingelheim WCABP Veterinarian of the Year** award was Dr. Barry Ross from Dawson Creek, BC. Barry's nephew, Dr. Jeremy Ross, read the following biography.

Barry graduated from the Western College of Veterinary Medicine in 1976 and moved to Dawson Creek, B.C. where he and Dr. Denton Moffat started a mixed animal practice. Having grown up on a ranch in Estevan, SK, Barry started out with a strong interest in bovine practice and this interest continued to grow. In the 1990's Barry spent a few years in southern Alberta working with feedlot clients and then returned to Dawson Creek and continued to expand the current practice which was initially built in 1983. A new drive through large animal facility was added in 2002. In 2004, Barry sold the Dawson Creek Veterinary Clinic to Mike and Zoe Ross. The entire time Barry was in practice he had a special interest in bovine medicine and the bovine industry.

Barry has not stopped contributing to the cattle industry just because he is out of private practice. He designed a specialized

shoulder squeeze to make treating cattle easier and safer, and this squeeze is now being sold by Morand Industries. He also spent some time working for the Canadian Food Inspection Agency at the local packing plant in Dawson Creek. Barry can be found helping ranchers push cows up and administer vaccines. He has been very involved in the cattle show at the Dawson Creek Fall Fair as well as the Peace Country Beef Congress.

Barry was a wonderful mentor who was practical and full of very helpful advice.



Congratulations Barry (above right) on being named the 2009 Boehringer Ingelheim WCABP Veterinarian of the Year!

Barry was and still is very well respected by his bovine clients. In 2003, he received an award from the B.C. South Peace Stockman's Association in appreciation for his service to the livestock industry. Bovine clients would say how well Barry understood the bovine industry, how he never complained about being called out in the middle of the night and how good he was at explaining things to producers in layman's terms. 🐾

Member News

Dr. Melodie Chan (WCABP Past-President) will be presented the "Young Veterinarian of the Year" Award at the Alberta Veterinary Medical Association Membership Recognition Banquet at the Carriage House Inn in Calgary on Saturday, February 28th. Dr. Chan was nominated for this Award by the ABVMA Council. This Award is presented to a new Alberta Veterinary Medical Association member who has shown enthusiasm for veterinary medicine and demonstrated leadership in the profession, particularly the ABVMA. This Award is presented to a member 5 years or less since their graduation from veterinary college. Congratulations Melodie! 🐾

Karen Wagner (President, WCVM Bovine Club) was one of the 2008 recipients of the Canadian Western Agribition's \$1,000 post-secondary scholarship.

As part of the Canadian Finals Rodeo in Edmonton, veterinary student **Angela Oakley** of Edmonton, AB was one of the recipients of the 2008 Bill Kehler Memorial Scholarships. The \$2,500 scholarships are annually awarded to students with academic interests in broadcasting or agriculture, or to post-secondary students who are involved in professional rodeo. 🐾

Biofuels: Implications for the Feed Industry

Increasing biofuel production in the future will have a major impact on the feed industry. Not only will the competition for food, fuel and feed decrease the availability of feedstuffs for animal production but also new feedstuffs will become available for which the nutritional qualities need to be reviewed.

The nutritional value and usability as a feedstuff of by-products from the biofuel industry is the main focus of the book "Biofuels: implications for the feed industry". The book contains full articles from a conference that was organized by Schothorst Feed Research in October 2006.

In particular, rapeseed meal and glycerine from biodiesel production and DDGS from bioethanol production are discussed. The book also gives an overview of the current and future developments of the emerging bioenergy production. Piet van der Aar, MD of Schothorst Feed Research in the Netherlands begins with a short introduction reviewing the general implications of biofuel production for the feed industry, concluding that the subject will be "a major theme in our activities for the next decade."

At present, energy farming on current agricultural land is the major supplier of raw materials for biofuels. A potential bioenergy supply until 2050 of up to 700 EJ/yr* is assumed for this system by researchers of the Copernicus Institute of the Utrecht University in the Netherlands. This requires intensive agricultural production systems. When this is not feasible the bioenergy potential could be reduced to zero. Other potential sources for biomass production are marginal lands (0-150 EJ/yr) and forest residues (0-150 EJ/yr). Relatively low potential can be found in residues from agriculture (15-70 EJ/yr), dry manure (5-55 EJ/yr) and organic wastes (5-50+ EJ/yr).

The techno-economic potential of biomass resources for energy and industrial materials can be very large, these researchers noted.

In theory, twice the current global energy demand can be produced, but more likely around 400 EJ, without competing with food production, protection of forests and nature. This is only expected to be reached in the second half of this century. Total global energy use now is estimated at 430 EJ. In the US bio-ethanol is emerging at a fast pace and has changed the face of agricultural markets. Geoff Cooper of the National Corn Growers Association sees increasing demand for corn parallel to an incremental rise in corn price. Therefore US farmers are searching for substitutes to feed to their animals, which has partly been found in dried distillers' grains. Domestic and foreign feed buyers and livestock producers gain a better understanding of the issues associated with purchasing, transporting and feeding of distillers' grains.

Different raw materials in Europe

The situation in Europe is slightly different to the US market. Christine Chudaske of Südzucker AG in Germany notes that grain will be the basis for producing bio-ethanol through sugar and sugar containing substances. As a consequence DDGS and vinasse as co-products become more known to the market. Chudaske had a forward looking perspective when she concluded that "bio-ethanol will also influence the grain markets in the EU by reducing the oversupply of grains and sugar. This will significantly impact the common agricultural policy as far as intervention and set aside programs are concerned." How true this has become in less than two years.

In Europe biodiesel is more popular than bio-ethanol in terms of crop growing. Rapeseed is the main basis for biodiesel and its main by-products are rapeseed meal and cake and glycerine. Karl-Heinz Südekum of the University of Bonn in Germany concludes that glycerine may help to stabilize the hygienic quality of pelleted feeds without compromising physical quality of pellets. In ruminant diets it could replace rapidly fermentable carbohydrates and its sweet taste may improve palatability.

Rapeseed meal could replace soybean meal in dairy cow rations. Südekum said that the value of rapeseed cake for all categories of farm animals would need to be standardized, because varying crude fat and crude protein concentrations makes the feeding value difficult to predict and could also affect storage stability.

Jannes Doppenberg of Schothorst Feed Research elaborated on the feeding values of biodiesel by-products for non-ruminants. The key factor in this is the anti-nutritional property of glucosinolate (GSL) in rapeseed meal or cake. The GSL rate of rapeseed cake (expeller) is much higher than in rapeseed meal, thus inclusion rates in pig diets need to be lower. Doppenberg said glycerine can be used up to 5% in pig diets and 10% in poultry diets.

DDGS investigated

Researchers from the Prairie Swine Centre and the University of Alberta recommend the use of DDGS to be 10 to 15% of the diet of growing and finishing pigs. Corn derived DDGS of certified quality might be included at higher levels. Weanling pigs are less tolerant to DDGS and inclusions are maximized to 7 to 10%. For wheat DDGS the researchers limit intake to 5 to 10% in diets of growing and finishing pigs. With higher inclusions they fear for depressed feed intake.

DDGS has 110-130% the energy of corn for growing and finishing cattle according to Larry Berger, beef nutritionist at the University of Illinois. He notices the potential concern of variability in composition when feeding DDGS. University of Wisconsin researchers found that DDGS is an excellent source of nutrition for lactating cows. Dry matter intake responses are most favourable when DDGS is fed for 5-15% of the diet. "Growing and finishing cattle offer the greatest opportunity for the utilization of DDGS in the US," Berger said.

In-depth view

The book gives an in-depth view of research and opportunities for the livestock industry regarding the use of biofuel by-products. It is amazing to see that within two years time the market has evolved so quickly, that while these presentations are still viable, a new conference on the same subject could be justified. 🐾

Source **Feed Tech Volume 12 No. 7**



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Welcome New WCABP Members!

The WCABP would like to acknowledge and welcome the following new members to the Association:

Dr. Christopher Biederbeck

Oyen Veterinary Services Ltd.
Oyen, AB

Dr. Phil Bourque

Warman Veterinary Services
Warman, SK

Dr. Heather Fenton

Livestock Veterinary Services
Picture Butte, AB

Dr. R. Kent Fenton

Fenton Veterinary Services Inc.
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Dr. Glen Griffin

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Dr. Joseph Thurgood

Shuswap Veterinary Clinic
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Notice of Membership Renewal

If you have not already renewed your membership, please do so today! Payment should be forwarded to:

Deborah Beddome, WCABP
112G-116 Research Drive
Saskatoon, SK S7N 3R3

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Reporting to the Beef Business Manager, you will work closely with other members of the Elanco team providing technical training and support in a fast paced, dynamic work environment. You will interact with customers in the veterinary, feed and cattle industries to provide technical service in support of the Elanco beef product line.

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Only those candidates selected for an interview will be contacted.

CVFAN Maintain the Trust



"Our goal is to ensure open, transparent and pro-competitive pricing policies within the industry"

CVFAN action plan is:

1. To unite and network veterinarians across Canada to monitor and discourage discriminatory drug pricing from entering the marketplace.
2. To inform pharmaceutical companies that their pricing policies discriminate between competitors and are causing significant harm to competition amongst veterinarians.
3. Encourage the development of open, transparent and pro-competitive pricing policies.

If you require additional information on our group or have interest in joining do not hesitate to contact one of our **Western Canadian committee members** – Dr's: Roy Lewis, Wayne Thiessen, Dave Holroyd, Bruce Wine, Bob Bellamy, Clarke Hill and Rex Leach – or visit our website.

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2009 Conference Round-Up

by Murray Jelinski

This year's Conference was held in Saskatoon at the Sheraton Cavalier. Historically, we have held our Saskatoon Conference at the Saskatoon Inn, near the airport; however, due to a logistical issue with the Saskatoon Inn we were forced to move downtown. This move was complicated by the fact that "Skate Canada" was in town and hence hotel accommodations were at a premium.

To be honest, there was some trepidation on our part with respect to moving the venue. We have been told in previous Conference evaluations that the membership likes the Saskatoon Inn because of the ease of parking (and free parking), and that it is easy to access. That said, this year's Conference evaluations were very positive in regards to the hotel, food, location, and Conference facilities. As expected, some of the 'day' registrants found parking to be problematic, but overall there were more positive than negative comments. Unless we hear otherwise, we will probably return to the Sheraton in 2011.

One of the other questions raised in our survey was the timing of the Conference during the week. Last year we experimented in Calgary and held the Conference on a Wednesday – Friday. This was a result of feedback from people who did not want to spend their weekends at a Conference. The plan was to hold the 2009 Conference during the week, but Saturday was the only day we could hold the wet labs. Unfortunately, the responses to this year's question with respect to days of the Conference are split evenly between the traditional Thursday – Saturday program versus Wednesday – Friday. A final decision will have to be made fairly soon, so if you have any strong opinions on what days to host the 2010 program in Calgary then let us know prior to the end of March.

Not only did the change in venue make this year's Conference unique, but more importantly, we re-introduced wet labs, which were held at the WCVM on Saturday. By all accounts the labs were very well received. We had excellent participation in



all five labs and the evaluations were uniformly positive. I had the opportunity to talk to a number of colleagues, who do not normally attend our Conference, and it was common refrain that they came this year because of the wet labs. We can all thank the Conference Chair, Trent Wennkamp, for coming up with idea of reintroducing wet labs.

Another twist on this year's Conference that was very well received was the student case presentations. We had three current students present their cases, with the membership choosing their favorite. This year's winner was Jan Currah, and for her efforts she received \$1,200 in funding, provided by Intervet/Schering Plough Animal Health. Again, this was one of Trent's initiatives and we suspect that "Student Presentations" will be part of next year's program. We thank Intervet/Schering Plough for their generous support of this program.

At last year's "Bayer Dinner", Bayer provided survey results on veterinarians' attitudes and perceptions of veterinary practice and where the profession was headed. This year's dinner followed-up on a similar theme, but with producers telling us what they thought of veterinarians and the services that they offered. While the small sample made it difficult to generalize the results across the entire profession, it did highlight the fact that veterinarians should not assume what their clients want, rather, we need to ask them. Please contact your Bayer representative if you would like more information on this survey. And, once again, we thank Bayer, Dr. Tracy Ward in particular, for their support and the excellent dinner. 🐾

Conference coverage continued on page 12...

Thank You to the Sponsors of the 2009 Conference



Feedback from the Conference

Following is a representative sample of the feedback we received from the Conference evaluations.

Conference evaluations received:

- 71 for Thursday
- 26 for Friday
- 13 for Dairy Wet Lab
- 27 for Beef Wet Labs

Thursday Program

Colic: Not Just a Horse Disease – Dr. Steve Hendrick

Outbreak of Congenital Cataracts in a Dairy Herd – Dr. Jagdish Patel

- Engaging speaker, good case report
- Great case study and presentation
- Good speaker/practical
- Very practical presentation about an uncommon problem
- Very good case report
- Good to report a case without a diagnosis
- Good speaker/presentation

A Potpourri of Bovine Conditions: An Introduction to the Interactive Classroom Approach – Dr. John Campbell

- Very much enjoyed the interactive nature
- Interactive component excellent
- Love the interaction
- Should be expanded to include variety of cases and situations
- Excellent as always
- Good review – would be nice to have time for more detail either diagnostics, treatment, etc.
- Fun – might be a good follow-up to some topics next year

Three Presentations by Dr. Amelia Woolums: *The Bovine Immune Response to BRSV Infections: Helpful or Harmful?; Effectively Vaccinating Calves to Prevent Respiratory Disease; and Feedlot AIP: What the Heck Causes it?*

- Pertinent, excellent speaker
- Great topics – enthused and well informed speaker
- Great job at exploring complicated immune system
- More of a literature review but very well presented – easy to listen to, clear and informative

- Good presenter. Second presentation the best of the three
- Important points brought to forefront

Friday - O.M.R. Presentations

Three presentations by Dr. Brad White: *Adding Value to Bovine Practice; Incorporating Beef Data Management into Practice; and Incorporating Beef Data Management into Practice.*

- Well done
- Very practical, applicable
- Very good speaker, great topics
- Good presenter. Some topics more interesting than others
- Very well done seminar, complete overview, challenging speaker, motivational
- Great presenter – very interesting talk
- Very passionate about topic and for a student it was great advice for the future

Three presentations by Dr. Darren Remsburg and Deborah Stevenson (AHT): *Factors Driving Change in Bovine Practice; Maximizing the Benefits of Employing Animal Health Technicians (AHTs); and Real World Experience of an AHT*

- Stimulated good discussion



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- Why am I above technical jobs? Make sure we are not standing around and paying someone \$20 an hour while we watch!
- Would have been good to have tech here to listen
- Very informative. Excellent to get that point of view

Dairy Wet Lab:

- Great place to tour and learn
- Great facility for this

Ultrasound Wet Lab:

- Nice to see the different units in action
- Need more pregnant animals – 30+ to 120+ days
- Good background to ultrasound and excellent to be able to try out several machines in cows and on the uterus directly

Lameness Wet Lab:

- Absolutely wonderful!
- Dr. Chris Clark is an awesome instructor/teacher. Always a wealth of useful information and good advice to apply in practice
- Wet lab was very informative with practical tips

Nutrition (Cowbytes) Lab:

- Needed more time – good start for me though. Now I feel confident that I can buy the program.
- Very good program, good info
- Good knowledge of beef cow herd

Diagnostic (PDS) Wet Lab:

- Excellent review about key points of specific diseases, sample size, etc.
- Useful – maybe little more on Dx/BVD/BVDPI protocols
- Great – one of the best and most practical sessions of all time. Great work Andy, Brendan and Al.

Comments on the location, facilities and organization of the Conference:

- Location was excellent, heated underground parking was ideal for truck and Bowie. Nice to be downtown, lets us explore the city and enjoy ourselves more.
- Nice to be downtown.
- Keep up the good work and do more wet labs. Thank you.

- Wet labs are an excellent idea/addition to this Conference. Highly suggest continuing to offer them!
- Thanks for the student discount.
- Organization good, facilities good, location – congested parking.
- Very well done dairy wet lab.
- Please do more wet labs in future! Could eliminate Friday's topics in order to do this.
- It is nice to be downtown but very poor parking.
- Good organization, location – the food was not as good.
- Excellent – best food ever – continue to hold it at the Sheraton!
- Prefer Saskatoon Inn
- Great – nice place, easy to get to
- Nice change – very centralized
- Not a lot of parking options and expensive parking. Also breaks over lunch and prior to supper are much too long.
- Very good – much better for those of us staying with friends and not at the hotel and for students.
- Like Saskatoon Inn much better. Organization – great!
- Organization – excellent
- Very good to have wet labs incorporated into CE
- Seems to work really well. Better here if your family is with you
- Sheraton was excellent – everything in one area. Very organized
- Nice to be right downtown, but better parking would be nice
- Downtown Saskatoon works well for me

Do you like the conference being held on Wednesday through Friday rather than our traditional Thursday through Saturday?

Yes – 31 No – 43

Would you like to see a tradeshow included with Conference?

Yes – 56 No – 34

Would you like the return of industry presentations?

Yes – 45 No – 34

- Student case presentations are better
- Found student case presentations better
- Student cases were better

Would you like to see AHTs attending the Conference?

Yes – 46 No – 30

- Don't mind however, I would want the info being presented to stay at a veterinary level
- I think they would dilute where the professionals should be

What are you looking for in a Conference?

- I would like a course on reproduction improvements/problem recognition on farms
- New knowledge communication with other vets
- Finance and life after selling practice but not retirement
- Quality CE
- Practical presentations, good take home messages, diversity of topics
- Practice tips session
- Informal contacts, being updated
- More of the same
- Practice economics – in these tough times can't get enough
- New information or updates is good. Really liked the surgeon we had 2 years ago with the computer simulated surgery
- What is currently being offered – great conference historically
- Group get together with colleagues, high quality speakers with cutting edge topics practical stuff I can use in my practice
- New ideas, applications of recent research.
- Topical and timely presentations with info that I can take home and put into practice
- Meeting of colleagues/social and CE
- A good variety of practical topics
- Informative things that are applicable to use in private practice
- Applicable CE, practice management

When did you graduate?

Last 5 years	26
5–10 years	8
10–20 years	17
over 20 years	41

continued on page 14 . . .



Summary

2009 WCABP Annual General Meeting

I am always impressed by the number of members who take the time to attend our Annual General Meetings. This year we registered 67 members in attendance.

There were no major issues; however, we did pass a resolution to change the Association's Corporate Objectives, as listed in our By-Laws. These changes arose from last year's Strategic Planning Session, wherein we agreed that our Association had to become more involved in collaborating with other organizations. There were also some other minor housekeeping changes to the Objectives. The following shows the old By-Laws along with the version that was passed at the AGM. These were the only changes to our Corporate By-Laws.

Previous Corporate Objectives

1. To elevate the standards of bovine practice in western Canada by:
 - a) Organizing at least one continuing education conference, per year, dedicated to dairy and beef practice;
 - b) Preparing and/or distributing to the membership information that is deemed to be relevant to bovine practice; and
 - c) Otherwise encouraging the professional development of each member.
2. To promote research into bovine diseases by:
 - a. Identifying topics of special interest to the bovine industry that require additional research;
 - b. Bringing topics to the attention of the Dean of the WCVM, and any other appropriate institution or organization;
 - c. Otherwise encouraging research in beef and dairy production.
3. To establish and maintain liaison with appropriate organizations as designated by the Board.

Approved Corporate Objectives

1. Establish and maintain liaison and consultation with appropriate organizations.

2. To elevate the standards of bovine practice in Western Canada by:
 - a) Organizing at least one continuing education conference per year, dedicated to dairy and beef cattle practice;
 - b) Preparing and/or distributing to the membership information that is deemed to be relevant to bovine practice; and
 - c) Recruit and retain bovine practitioners
 - d) Encourage the professional development of each member.
3. Provide information and leadership on issues related to industry sectors and professional associations.
4. Encourage and support research into beef and dairy production.

We also made changes to the Dr. Ray Butler Bursary Fund. Historically, each year we awarded three \$1,000 bursaries to students entering their first year of veterinary school. To be eligible for this Award, they had to write an article relating to the beef or dairy cattle industry. If they were selected for the Award, then payment was contingent upon having a specified number of contact hours in a bovine practice. At one point we would get 6-10 students applying for these 3 bursaries, but more recently this number has trickled to the bare minimum. This year, the Board elected to cancel the Bursary Fund, but the funds were still ear-marked to support the students' exposure to bovine practice. For example, we donated \$1,000 to support having Dylan Biggs put on a cattle handling short-course. This event was organized by Dr. Joe Stookey and was held on a weekend. We were particularly pleased to hear that 26 WCVM students took the time out of their busy schedules to attend this short course. In addition, we donated \$1,000 to the students so that Dr. Steve Hendrick could take 25 members of the WCVM Bovine Club on a tour of Alberta feedlots, the UCVM, and to meet with private practitioners. In general, we see more value in supporting these activities versus the 3 bursaries; Dr. Butler was also in agreement with the changes to this Fund.

In a similar vein, the WCABP has been donating \$3,000/year in support of bovine related research. A call for proposals goes out annually to both the WCVM and UCVM; however, we have not been inundated with responses. We are now in the process of reassessing how these funds are spent and will not be funding a project in the coming year, but rather, these funds will roll-over into next year's budget.

No other issues were brought up and as reported earlier, Dr. Trent Wennekamp was installed as President, with Dr. Sylvia Checkley assuming the position of President-Elect. 🐾

Respectfully submitted
Dr. Murray Jelinski

Feedback

... continued from page 13

Other comments:

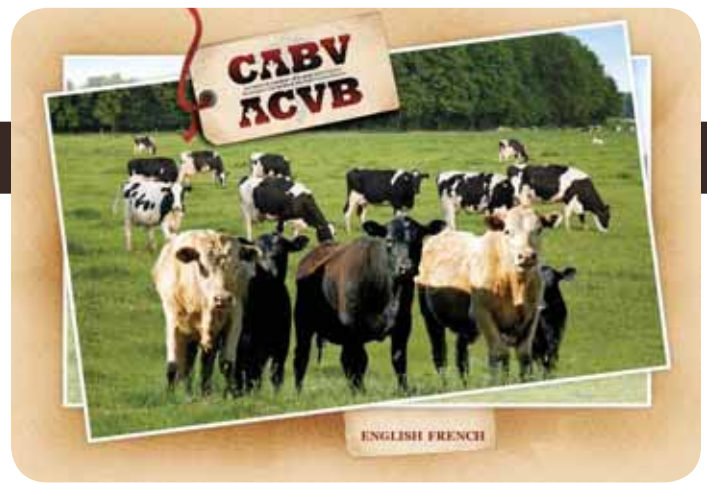
- Enjoyed it, especially getting young people involved. Divide into small groups for more interaction might work.
- WCVM students should have WCVM year awarded on name tags
- Suggested topics: explain personality, profiling and how it can impact service and interactions
- Would like to see return of practice tips – alternate with industry presentations
- Well run AGM – Murray, Mel and Phyllis
- Enjoyed “most” of the industry presentations that used to be offered
- Always a good conference and at a good time of the year for me
- The student presentations were excellent
- Well run organization
- I would like to see the proceedings provided to us in a memory stick/electronic format. Most programs are going to this additional service and it allows you to create a searchable database within the office.
- Incorporate private practitioners via interactive discussions with conference attendees re current issues in vet med (diseases, management, nutrition, vaccines, etc). There is a lot of life experience, diversity, and knowledge among the large group of conference attendees. I think drawing on that resource (rather than entirely on a few individuals) would be extremely valuable (practical vs. academic). 🐾

CABV Website Launched

www.cabv.ca

Check out the Canadian Association of Bovine Veterinarians / Association Canadienne des Vétérinaires Bovins website, where you will find the following pages:

- **About Us** Information on the composition of CABV/ACVB, corporate objectives, as well as a link to the four regional associations.
- **News & Events** dates for meetings, as well as links. Issues that CABV/ACVB has commented on are also listed on this page.
- **Board of Directors** contact information
- **Contact Us** coordinates for the CABV/ACVB Office
- **Forum** This is a method for CABV/ACVB members across the country to communicate on matters of mutual interest. In order to access the Username and Password for this Forum call the WCABP office at 1-866-269-8387 or email Phyllis at cabv.acvb@sasktel.net.



www.wcabp.com

To keep tabs on your Association and your industry . . .

- Updates on 2010 Conference
- Proceedings from the 2009 Conference
- Numerous links to sites of interest
- Latest industry information
- Vet Advice columns (contributed by WCABP members, and published in the Canadian Cattleman)

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At Home with Herefords



A life without cows?

A calf-free career?

A no-bovine business?

Those simply aren't options for Karen Wagner, a third-year WCVM veterinary student, the president of the College's Bovine Club — and a diehard Hereford fan.

Karen Wagner was barely out of diapers when she began tagging along with her father to check the cows on her parents' mixed farm near Consul, Sask. At age six, she was following in her Dad's footsteps and showing her first heifer in the local 4-H achievement day.

Even now, when Wagner manages to make it home for a weekend, she'll head out to the corrals and find the nearest tame cow — likely a granddaughter or great-granddaughter of her first 4-H project — so she can give it some extra pampering and training for the show ring.

"It's just natural for me, I guess," says Wagner with a shrug. "I don't think anyone can shake the fact that I'm always going to be a



WCVM student Karen Wagner holds her purebred Hereford heifer, *KLR Miss Be Haven 3T*, after winning Heifer Calf Champion at the Saskatoon Fall Fair in 2007. One year later, Wagner and *KLR Miss Be Haven 3T* took home the Reserve Junior Champion Female at the 2008 Fall Fair. The heifer's mother was one of Wagner's 4-H projects.

cow person. I guess it's because I like being around them: it's the way I relax."

Wagner's family operates a commercial herd of 120 Hereford-cross cows, plus they grow some grain and green feed on their southern Saskatchewan land. But the farm's most prized possessions are more than 40 purebred Hereford cattle — points of pride for Wagner and her family.

The faces and names have changed over the years, but many of the purebred ani-

mals have been Wagner's steer, heifer and cow-calf projects at numerous 4-H shows. The best cattle of *KLR Polled Herefords* have also gone on to win ribbons and titles at larger venues like the Canadian Junior Hereford Show, Saskatoon's Fall Fair, and the Canadian Western Agribition.

"We won champion female at Saskatoon's Fall Fair in 2006 and 2007, and that qualified us for the Supreme Show at Agribition for both years. In 2007, the champion female was my cow. I raised her from a

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calf, plus I raised her mother, so that was a special year for me,” recalls Wagner, who also earned a \$1,000 Canadian Western Agribition scholarship in 2008.

Besides her cattle showing experiences, Wagner has participated in many 4-H livestock judging competitions — including the 2007 Canadian National 4-H and Youth Judging Competition at Agribition where she outjudged competitors from every Canadian province. Wagner’s first-place prize: a trip to Expointer 2008 in Brazil, the largest agricultural event in Latin America.

But Wagner’s experience with the family’s Herefords has taken her even farther than the southern hemisphere. In a sense, every calf born on the place has helped her get one step closer to her ultimate career goal: becoming a large animal veterinarian.

“Ever since I was a little kid, I always thought about being a vet,” says Wagner, who credits her farming background, her 15-plus years in 4-H and her cattle experience for helping her with her post-secondary studies in agriculture and animal health.

“I just kind of rely on that knowledge of conformation, of handling cows, of cattle production — everything. You know, I don’t even realize that it’s playing a part in how I understand things,” says Wagner. “It’s just always been there for me when I need it.”

While her parents always supported her career plans, others tried to change her mind — including her Grade 12 guidance counsellor who suggested medical school instead “because it was easier to do” than veterinary medicine.

With at least seven years of hard work ahead of her and no guarantees that she would be accepted into the veterinary program, Wagner wavered: should she be a

math teacher instead? “But then I decided no, because I don’t think I could be inside every day all day for the rest of my life. Animals have always been my passion, so I decided to go with what I knew.”

Wagner studied animal science in the University of Saskatchewan’s College of Agriculture for three years before she applied to the Western College of Veterinary Medicine. She was accepted on her first try. After becoming a first-year veterinary student in August 2006, she promptly joined the WCVM’s Bovine Club — one of the College’s largest student organizations with about 110 members.

Similar to the role that 4-H played in her past, Wagner says the Bovine Club has been an invaluable source of information and practical experiences for her through its regular wet labs and hands-on demonstrations. It’s also the ideal link to veterinarians in the field who are members of the Western Canadian Association of Bovine Practitioners (WCABP) and the American Association of Bovine Practitioners (AABP).

Besides inviting WCVM students to its annual conference every January, the WCABP sponsored a cattle handling clinic with livestock behaviour specialist Dylan Biggs for WCVM Bovine Club members during the fall of 2008. As well, the association provided some financial support for the club’s four-day trip to southern Alberta where students toured feedlots and visited innovative dairy practices.

“The WCABP definitely acts as a mentor to us,” says Wagner. “Their members are there to help us out in any way they can — by answering questions and encouraging anyone with an interest in cattle to pursue it and see where it takes them.”

In turn, Wagner and other Bovine Club members with 4-H or cattle backgrounds

pitch in to help their classmates who have little or no experience with the species. For instance, Wagner has helped to organize judging sessions so Club members have a better understanding of conformation and what judges look for in the different cattle breeds. “If they’re willing to come out and they want to learn, I’m happy to teach them and help them to understand my passion.”

During the past couple of years, Wagner has worked as a summer student with Dr. Lawrence Heinrich whose mixed animal practice in Maple Creek, Sask., has exposed her to some interesting cases and has given her a preview of what to expect as a rural practitioner. This spring, she’ll begin her first fourth-year rotation in large animal medicine as soon as her third-year exams wrap up.

While it’s an exciting time, Wagner acknowledges that she often gets butterflies about her final year. “When I go home, Dad will ask me some kind of (veterinary-related) question, and my first reaction is, ‘Oh, I don’t know.’ But after I think about it for a second, I’ll rattle off some answer and then I realize that I do know more than what I’m giving myself credit for.”

In the meantime, Wagner’s original plans haven’t changed much: she still wants to practice in rural Saskatchewan where she can raise her own herd of purebred cows and be part of her family’s farm. Additional training in reproductive techniques, such as embryo transfer, may be a possibility for her somewhere down the road.

But for now, Wagner is looking forward to finishing her DVM degree in 2010, leaving the city life behind and getting back to the country — back to her cows. Back to where she belongs. 🐾

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Intervet / Schering-Plough Animal Health Student Case Presentation Award



This was the first year that WCABP and Intervet / Schering-Plough invited WCVM 3rd and 4th year students to present a beef or dairy case report at the Conference. Presentations were given by Jan Currah, Julie Woodward and Pam Barmentloo. Following their 15 minute presentation those in attendance were asked to vote. We are pleased to report that Jan Currah was the winner. Jan will receive a laptop or \$1,200 cash equivalent. Jan offered the following words of gratitude:

"I want to thank the WCABP for including student presentations in the Conference this year. I feel honoured to have been chosen to present and even more honoured to have been chosen the winner!! Thank you to Intervet/Schering Plough and the WCABP for sponsoring this great award!"

Jan Currah



WCVM Student's Bovine Club



The WCVM Bovine Club has had a very active school year so far with much more planned for the remainder of the year.

The four-day trip to Alberta in November was a huge success. The twenty-five students who took part in the trip enjoyed interactive tours and lectures regarding various aspects of feedlot health. Thank you to Dr. Ted Clark of Antech Diagnostics, Drs. Mike Jelinski and Craig Dorin of Veterinary Agri-Health Services and Cattleland Feedyards for hosting our Club. In addition, one day of the trip was hosted by Drs. Melodie Chan and Egan Brockhoff of Veterinary Dairy Health Services and the group was able to tour dairy farms and had lectures on dairy herd health and management. The Club would like to thank WCABP for their support and making this trip possible.

With the WCABP Conference being hosted in Saskatoon again this year, a number of students were able to take part in the sessions held Thursday and Friday

with three other students attending the dairy wet lab on Saturday. All reports that I've had indicate the students enjoyed themselves and felt their attendance at the Conference was very worthwhile. Congratulations are extended to Jan Currah, a fourth year student, who was the winner of the Intervet/Schering-Plough Animal Health Student Case Presentation Award.

On January 23, the Bovine Club hosted Dr. Melodie Chan for a lunch hour talk sponsored by AABP and Wyeth Animal Health. Dr. Chan discussed vaccination protocols with the students and how to design a successful protocol once you are out in practice. Dr. Chan also relayed the benefits of being WCABP and AABP student members. Hopefully this will encourage more students to join these organizations in the upcoming years.

Numerous lunch hours sessions have been booked in February and March for Bovine Club Rounds. Our first session was hosted by Dr. Trish Dowling about the CgFARAD

and what the organization does for veterinarians. Students have also requested the continuation of judging practice and we hope to have a few more of these sessions as well before the end of April arrives.

Considering that the Bovine Club is one of the most active clubs at the WCVM, it shows that there is a definite interest in bovine practice at this College. We appreciate the support given to us by the WCABP, which allows us to pursue and promote this interest. We are also very grateful for the support shown to us by all the speakers willing to share their knowledge and those that assist in making the Club a worthwhile and enjoyable experience for all the members.

If you have any ideas, suggestions, or comments for the WCVM Bovine Club, feel free to contact me at kdw329@mail.usask.ca

submitted by Karen Wagner

Bovine Club President & WCABP Rep

University of Calgary Faculty of Veterinary Medicine (UCVM)

In contrast to curricula we all followed as DVM students, UCVM students are exposed to clinical skills almost from day one. We, as faculty members guide students through a series of clinically oriented learning experiences aimed to develop competence in individual and herd examinations and history taking. This strategy supports a curriculum which integrates basic courses like anatomy and physiology in practical applications.

The student manual of UCVM's Clinical Skills course opens with this mission statement:

The goal of this course is to teach you the hands-on skills that you will require to become a successful practicing veterinarian. The instructors teaching this course are primarily all clinical veterinarians and Animal Health Technologists. The skills chosen for presentation in this course have been selected by your instructors and veterinarians in the Distributed Veterinary Teaching Hospital (DVTH) as those essential to your veterinary training.

To determine whether the students have mastered these skills we use so called



OSCE's; Objective Structured Clinical Examination. This is a modern type of examination more often used in health sciences to test clinical skill performance and competence. This kind of examination is made objective by having a detailed marking scheme the examiner uses during the exam. Students must appropriately perform a previously developed list of detailed aspects of the skill. Special focus is on performing the skill in a safe and accurate way. During several stations students are presented scenarios; for example this year our students were asked to give a general impression of a beef cow herd presented to the students in the Healthy Herd sessions or catch a sheep for and present the animal for oral inspection.

After a mock run early November to familiarize the faculty and staff with the procedure, the Class of 2012 took its first OSCE examination later that month. Although the students were nervous for this new type of examination, the class did very well. We are currently anticipating the second OSCE run this Spring and will include skills with themes like lameness, bandaging, bovine foot care, critical care of a hospital patient, injection techniques, preparation of a surgical patient and swine handling, among others.

Therefore, with great confidence, we can look forward to the set of skills students will develop over the next three years. This will prepare them for rotations in the Distributed Veterinary Learning Community and their future careers as DVMs in practice.

For more information about UCVM, visit the website at www.vet.ucalgary.ca.

submitted by **Dr. Karin Orsel**

Assistant Professor, Epidemiology of Infectious Diseases

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BSE Can Be Tested In Cow's Urine

BSE infected cows could be detected by testing the urine of the animals, according to reports from the University of Manitoba.

Researchers found elevated protein levels in the urine of some cows infected with BSE. At this moment of time, cattle can only be tested after slaughter.

Rob McNabb from the Canadian Cattleman's Association said that a test that can be applied to live cattle means that herds can be

monitored on a regular basis. The cattle industry has been looking for this type of simple technology for the last thirty years stated McNabb.

The simple test (a strip of paper) changes colour when it comes into contact with the cow's urine. 🐾

Source Farminguk.com

Mycoplasma bovis Research Update

Disease caused by *Mycoplasma bovis* results in significant economic losses to the beef industry in Western Canada each year. It is implicated as the causative agent in Chronic Pneumonia Polyarthritis Syndrome (CPPS). CPPS is known to be a major cause of mortality in feedlot calves resulting in an intractable chronic pneumonia at approximately 25 – 40 days on feed. As well, it has been previously found that some animals will later develop crippling arthritis which often leads to their euthanasia. This disease is costly in terms of loss of production and expense of treatment.

Over the past year we have been observing *M. bovis* in terms of its prevalence in calves entering the feedlot. We have also been comparing the recovery rates of *M. bovis* from the nasal passage and lungs within 14 days of arrival and after being on feed for approximately 65 to 90 days. The purpose here is to observe the change in prevalence of *M. bovis* from the beginning of the feeding period when disease is typically seen to the prevalence later in the feeding period.

Since disease is not typically seen as a result of *M. bovis* later in the feeding period we wanted to observe whether the prevalence actually changed or if lack of disease may be due to some other factors.

To do this we sampled the nasal passages and lungs of 36 recently weaned steer calves within the first 12 to 14 days of arrival to the University of Saskatchewan feedlot. Nasal sampling was accomplished by swabbing of the nasopharynx using a deep nasal swab. Lung flora samples will be taken by way of Broncho-Alveolar Lavage (BAL). The swabs and fluid were then cultured and sent for PCR. Samples were repeated at 65 to 90 days on feed through the same techniques.

At this point all sampling and culturing has been completed. We are now waiting for results from the PCRs which are expected in early February. At this point we know that we have a significant amount of *Mycoplasma sps* recovery from the first and second stage of sampling, 61% and 83% respectively. We also found the nasal

swab technique had a good sensitivity (92 – 100%) and a poor specificity (20 – 23%) when compared to the BAL technique. This indicates that nasal swabbing results have a low number of false positives but a large number of false negatives. Therefore, it is unlikely that nasal swabbing alone is sufficient for diagnosis of disease due to *Mycoplasma*. These results need to be analyzed again once the PCR results are available. As well, once the PCR results are complete the samples will be sent for molecular typing to determine whether the same subtype/strain of *M. bovis* is colonizing both the nasal passage and the lung.

We would like to thank the WCABP and our other funding agencies (Alberta Beef Producers, Pfizer and Saskatchewan Agriculture) for their support. 🐾

submitted by **Nathan Erickson**

Dr. Nathan Erickson, Department of Large Animal Clinical Sciences, WCVU was the recipient of the 2007 WCABP Research Fund.



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PDS Update



The arrival of spring is always a welcome time in southern Saskatchewan, especially after such a cold and stormy winter! With all that has gone on in our livestock markets over the past few years, I am asked by producers and veterinarians if most producers still seek out veterinary service for their livestock. There have been changes in what we do, but I am finding that the majority of our livestock producers want to do the best job they can for the animals under their care. The variety of problems and situations we encounter in our practice just keeps getting more and more interesting, and frankly, is more fun now than in the days of 24/7, pulling things out of, or pushing back into, new mothers of the bovine persuasion.

The Practical Bovine Diagnostics wetlab I helped with at this year's WCABP Conference was a tremendous amount of fun for myself and Drs. Perry and O'Connor. Thanks to all of the participants for the wonderful feedback – Phyllis accused me of doctoring the forms!

There are a couple of diagnostic tests to note for practitioners as we enter the busy spring and summer seasons. The first is the bulk tank screening test for the presence of BVD virus in dairy herds. With thanks to Dr. Ed Dubovi of Cornell University for providing us with some modifications to the sample handling protocol, Prairie Diagnostic Services can now perform BVD-PCR testing on milk samples representing the animals in the milking herd. By either doing PCR alone or also running virus isolation on that same

sample, the practitioner can help demonstrate the presence of BVD virus, which can then lead to a more in-depth survey of animals in the herd. It is important to restrict the number of animals represented by each sample as much as is practical, in order to increase the sensitivity of the test. A herd of several hundred milking cows should have several different samples submitted to bring down the number of animals represented by each test “pool”. One effective way to take samples at a large dairy is through use of an in-line sampler. With such an economical test available, dairy practitioners can routinely screen herds throughout the year, or whenever the health and production parameters of a client's herd indicate that BVD may be a problem. Us beef practitioners just wish we had such a convenient sampling technique for herd screening! Please call me with any specific questions related to bulk tank BVD screening.

The other new test to note is actually a panel of tests for equine upper respiratory pathogens. We are very pleased to now offer a PCR panel that will test for the presence of EHV-1, EHV-4, equine influenza and *Strep equi* in nasal swab samples. The specialists I talked to told me that even with early clinical exams, they are often not able to clinically distinguish between these diseases, especially in the early days of a case, or of an outbreak of equine upper respiratory disease. With the help of this test panel, practitioners can make recommendations about treatment, control, and future vaccination with more complete and accurate diagnostic information. The panel is new, and a few details are still being worked out. Please call me with any questions about this panel.

Have your producers been asking you more questions about BVD testing? A certain prominent livestock marketing specialist (OK, auctioneer) recently told me he wished that producers would receive support payments for their animals from some level of government – linked to whether or not their herd had been tested for BVD! The degree of awareness of BVD as a production-limiting disease keeps increasing, and it falls to us as bovine practitioners to be sure we can meet the needs of our industry in a cost effective, but reliable manner. If you have had requests about BVD testing, or heard BVD test ideas that sound too good to be true, please let me know – I'd like to keep track of and learn more about what is being promoted to our industry. To quote Dr. Dan Thompson of Kansas State, “we're gonna have one crack at this BVD thing, let's not mess it up”. Until next time, have a safe and profitable spring! 🐾

submitted by **Andy Acton**

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¹Zimmerman AD, Buterbaugh RE, et al. Efficacy of bovine herpesvirus-1 inactivated vaccine against abortion and stillbirth in pregnant heifers – J Am Vet Med Assoc 2007.

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