



WCABP

Western Canadian Association
of Bovine Practitioners



newsletter

Volume 14 No.3 September 2007

President's Message



I recently attended the Academy of Veterinary Consultants (AVC) meeting as they celebrated their 35th anniversary. In conjunction with this celebration, the AVC selected six veterinarians that "have had or are having a significant impact on feedlot medicine." Those of you who subscribe to the "Bovine Veterinarian" magazine will recognize two Canadians (Drs. Kee Jim

and Calvin Booker) are among the six selected. The WCABP recognizes their contribution and passes on its congratulations.

Those who have read the current edition of "Bovine Veterinarian" will recognize this quote from Dr. Apley, "The strength of the beef practitioner is still in observing what is going on around him or her. The most successful among us are those who use the word 'why' the most...if you want to talk about heroes, then those are the quiet professionals that serve the small communities in which many of us live. Foremost among those are the general-practice veterinarians serving rural communities."

In my opinion, this quote exemplifies the members of the WCABP as it consists of bovine veterinarians who are committed to continuing education by attendance at the annual conference and regional seminars. The members of the WCABP are those "quiet professionals" that are contributing to rural communities across Western Canada. However, I am torn as I begin to consider the future of these rural areas and thus the future of the rural veterinarian.

I spend a considerable amount of time (probably too much), contemplating the future of the rural veterinary practice. My fascination with the future of rural veterinary medicine originates from my admiration of the profession, as well as my affinity for the rural way of life. I am intrigued with many of the debates and expert opinions surrounding this subject because they challenge me to consider my current role as a veterinarian and how that may change over time.

Although I appreciate the fact that our profession is considering the future, I hope that in the process we do not lose our ability to focus and act in the present. For me, the future is most valuable when the gaze forward can be traced backward to where we are today. The path to the future is rarely crystal clear, but there needs to be a strong connection between 'here' and 'there' to facilitate our ability to shape our futures. Action on our part is not required to experience the future because if we simply wait, the constant revolutions of this globe will ensure that it will arrive. The obvious question then becomes, "what do we need to be doing now to shape the future into what we want it to be?"

I have my own thoughts on the future of this honored and noble profession but unfortunately they are no more valid, and perhaps less so, than anyone else's. My challenge to each of us as practitioners is to become involved, at whatever level is individually appropriate. The most important steps in this building process involve individual practitioners spending time gazing into the crystal ball and creating the best future as it relates to our individual career and/or business. These individual plans will ultimately shape the future of the profession. These quiet thoughts and actions will sum to tremendous opportunities for the veterinarians interested in servicing the agricultural industry.

Tye Perrett

The WCABP newsletter can also be found on the WCABP website at www.wcabp.com



WCABP

Western Canadian Association
of Bovine Practitioners

contents

- 1/ President's Message
- 3/ Secretary-Treasurer's Report
- 3/ Advertising Index
- 4/ Board of Directors
- 5/ Nominations for the Boehringer Ingelheim Vet of the Year
- 6/ New VIDO Director
- 6/ Administrator's Report
- 6/ U of C Faculty of Veterinary Medicine Update
- 7/ Dairy Cattle Industry Launches National Health Project
- 11/ 2008 Conference
- 15/ Verified Beef Production Website
- 16/ Ethanol Byproducts Pelletized
- 17/ WCVI Update
- 18/ Changes to Prairie Diagnostic Services
- 18/ Member News - Andy Acton

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Secretary-Treasurer's Report



I am pleased to report that the Canadian Association of Bovine Veterinarians (CABV) is now a reality. The CABV is now officially incorporated and we are in the process of assembling a registry of membership. This registry will be used to determine how many Board members each regional association is allowed to appoint to the CABV Board. The WCABP has the greatest number

of members (250+), allowing us to appoint four members; all other associations will appoint a maximum of three Board members. The CABV will be funded by a special \$15 levy attached to each member's dues. This should provide us with approximately \$10,000/year in operating funds. It has also been decided that Tye Perrett will become the CABV's inaugural President, and I will take on the position of Secretary-Treasurer. It has not yet been confirmed, but Phyllis from K3 Consulting will in all likelihood provide office support to the new Association. I have also been in contact with Dr. Riddell (AABP) and we hope to have a couple of minutes at the AABP's general meeting in Vancouver to make a formal announcement.

In other news, Melodie has done an excellent job in spearheading plans for our next Conference in Calgary. The program has been decided and all the speakers are confirmed. I think this is the soonest we've ever been ready for a Conference - congratulations to Melodie and Ray for moving things along so quickly. On the topic of CE, we do not have any regional meetings planned. We are always open to suggested topics and speakers, so let us know if you perceive a need for a regional meeting in your area.

The WCABP held two Specified Risk Material (SRM) meetings on May 30th and 31st. Dr. Greg Douglas, Veterinary Program Specialist - BSE, from the Canadian Food Inspection Agency spoke on the new regulations that came into effect on July 12th. Thirty-one veterinarians attended the session held in Calgary, and 40 were in attendance in Edmonton. We thank the CFIA who contributed \$1,000 towards each of these meetings, and the AVMA who cost-shared the balance.

On the financial front, we continue to enjoy a very healthy balance sheet. The combination of rising interest rates and moving our cash reserves over to ING, which provides a higher yielding interest rate on our savings account, has us earning over \$250/month in interest. This might not sound like much but it is \$250 more than the Royal Bank was paying us.

One topic that has been front and centre with the Board is the question of what to do with the Vaccination Certificate Program. As a recap, the general membership passed a motion two years ago to proceed with developing a program that tracks producers' vaccine purchases. The program also has a function for generating a certificate that shows the type of vaccines administered to animal (group of animals) and date of administration. So far we have sold 28 of these programs but to mixed reviews. Recently, Deborah and Phyllis surveyed everyone who purchased a program to determine how frequently they use the program, what changes are needed, and whether they were satisfied with the quality of the product. We were surprised to learn that a considerable number of those who purchased the program had not yet tried using it. Of those who were using it, the general comment was that it was not very user friendly and lacked the ability to perform some simple functions. The Board agrees that we need to rectify this situation. We have always operated on the basis that the WCABP will only offer quality products and services (CE). The decision before the Board is whether to rewrite the entire program, as the existing Access format does not allow it to be updated, or to recall the programs and provide some form of rebate. Initially, we operated under the assumption that the membership was very interested in this type of program, but the low number of sales and the fact that some purchasers have not even looked at the program now leads us to believe that we overestimated the demand for this type of product. This will undoubtedly become a topic of discussion at our next AGM. We are always interested in hearing feedback, both good and bad, from our members. If you have any thoughts on this program, or any other issue, then please let us know.

Respectfully submitted,

Murray Jelinski
Secretary-Treasurer

SEPTEMBER 13-15, 2007 - CANADIAN EMBRYO TRANSFER ASSOCIATION (CETA/ACTE) and CANADIAN LIVESTOCK GENETICS ASSOCIATION (CLGA) - 2007 JOINT SCIENTIFIC CONVENTION - Loyalist Lakeview Hotel in Summerside, Prince Edward Island. Contact: CETA/ACTE office, P.O. Box 2000, Kemptville, Ontario K0G 1J0; tel.: (613) 258-5944, ext. 313; fax: (613) 258-3719; e-mail: ceta@ebi.ca; Web: www.ceta.ca/07convention.htm

SEPTEMBER 13-17, 2007 - SASKATCHEWAN VETERINARY MEDICAL ASSOCIATION (SVMA) CONFERENCE in Regina, Saskatchewan. Contact: Web: www.svma.sk.ca

SEPTEMBER 20-22, 2007 - 40TH ANNUAL CONFERENCE OF THE AMERICAN ASSOCIATION OF BOVINE PRACTITIONERS (AABP), Vancouver, BC. Web: www.aabp.org

SEPTEMBER 30 - OCTOBER 6, 2007 - ANIMAL HEALTH WEEK (AHW) is a national public awareness campaign organized by the Canadian Veterinary Medical Association (CVMA) to give veterinarians and their teams an opportunity to show their dedication to the veterinary profession and promote animal health care and responsible animal ownership. Contact: Janice Mercer, Manager, Member Services and Communications; tel.: 1-800-567-2862, ext. 119; Web: http://canadianveterinarians.net/news-events-animal.aspx

OCTOBER 13-16, 2007 - CANWEST VETERINARY CONFERENCE at the Fairmont Banff Springs Hotel in Banff, Alberta. Jointly hosted by The Alberta Veterinary Medical Association (AVMA) and British Columbia Veterinary Medical Association (BCVMA). This conference is designed for the entire veterinary team and offers world-class continuing education. Contact: Midge Landals, AVMA; tel.: (780) 489-5007; e-mail: midge.landals@avma.ab.ca or Louise Crowe, BCVMA; tel.: (604) 929-7090; e-mail: lcrowe@bcvma.org; Web: www.canwestconference.ca

LIFELearn INC. offers a wide variety of continuing education opportunities throughout the year. Go to info@lifelearn.com.

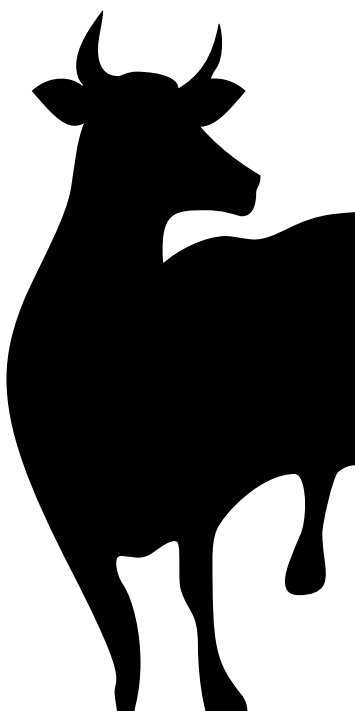


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Advertising Index

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| ADVERTISERS | PAGE |
|------------------------------------|--------|
| Bayer HealthCare | 8 |
| Boehringer-Ingelheim (Canada) Ltd. | 15 |
| Canwest DHI | 9 |
| EIDAP Inc. | 9 |
| Elanco Animal Health | 16, 17 |
| Intervet Canada Ltd. | 15 |
| Novartis Animal Health | 15, 19 |
| Pfizer Animal Health | 10, 14 |
| Schering-Plough | 7, 9 |
| Vetoquinol Canada Inc. | 20 |
| Wyeth Animal Health | 2, 15 |





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TYE PERRETT
Feedlot Health Management Services
Postal Bag 5 7 - 87 Elizabeth Street
Okotoks, AB T1S 2A2
Phone: 403-938-5151
Fax: 403-938-5175
Cell: 403-710-8567
E: tyep@feedlothealth.com



SECRETARY-TREASURER
MURRAY JELINSKI
310 Swan Lane
Saskatoon, SK S7J 5B5
Phone: 306-966-7166
Fax: 306-966-1935
Cell: 270-9118
Email: murray.jelinski@usask.ca



PAST-PRESIDENT
DOUG MANN
Animal Health Centre
P.O. Box 1650
Swift Current, SK S9H 4G6
Phone: 306-773-4121
Fax: 306-773-1811
Cell: 306-741-1838
E: ahc@t2.net



PRESIDENT-ELECT
MELODIE CHAN
Veterinary Dairy Health Services
5945 Park Meadows Crescent
Olds, AB T4H 1Y2
Work & Mobile: 403-559-6352
Fax: 403-770-8180
E: lilcowdoc@hotmail.com



DIRECTOR
PAUL CHRISTIANSEN
Market Support Specialist
Pfizer Canada Inc.
#322 - 107 Armstrong Place
Canmore, AB T1W 3L1
Phone: 403-678-8770
Cell: 403-461-3759
Fax: 403-678-8770
Email: paul.christiansen@pfizer.com



DIRECTOR
DOUG BAZINET
Bazinet Livestock Health Services
#64 PTH 12 North
Steinbach, MB R5G 1T4
Phone: 204-326-3955
Fax: 204-326-4940
Cell: 204-321-5100
E: bazinet@remotesat.com



DIRECTOR
TRACEY LOGAN
Oyen Veterinarian Services
R.R. #1
Oyen, AB T0J 2J0
Phone: 403-664-3849
Fax: 403-664-2782
E: oyenvet@telus.net



DIRECTOR
TRENT WENNEKAMP
Lloydminster Animal Hospital
6002 - 50th Avenue
Lloydminster, AB T9V 2T9
Phone: 780-875-5733
Fax: 780-875-5799
Cell: 780-808-0099
E: twennekamp@lah.ca



DIRECTOR
SYLVIA CHECKLEY
Food Safety Division
Alberta Agriculture and Food
O.S. Longman Building, First Floor
6909 - 116th Street
Edmonton, AB T6H 4P2
Phone: 780-427-8228
Fax: 780-422-3438
E: Sylvia.Checkley@gov.ab.ca

ADMINISTRATOR
PHYLLIS MIERAU
112G - 116 Research Drive
Saskatoon, SK S7N 3R3
Phone: 1-866-269-8387
Fax: 306-956-0607
Email: info@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.

LINK TO CANADIAN CATTLEMEN'S MONTHLY REPORT

General information on the Canadian Cattlemen's Association (CCA) can be found on their website at www.cattle.ca. The "Media Room" section provides copies of the latest news and audio releases as well as copies of the CCA Monthly report. Daily updates are available at www.info-cca.ca.

Bull Evaluation & Barth Manuals

Now is the time to check your inventory of WCABP forms and manuals. Please email/fax/or call the WCABP office to place your order for the following:

Bull Breeding Soundness Evaluation or Barth Manuals @ \$20.00 per manual
Bull Breeding Soundness Evaluation Forms @ \$10.00 for books of 25 and \$20.00 for books of 50
A small shipping charge will be added to all orders to cover shipping and handling.

Bull Breeding Soundness Evaluation Forms are also available at Western Drug Distribution Center and Mid-West Veterinary Drug Distribution Center. Please note that the books available at these locations have a tracking number printed on the form.

Animal Health Week

September 30 - October 6, 2007

ANIMAL HEALTH WEEK is a national public awareness campaign organized by the Canadian Veterinary Medical Association (CVMA) and hosted by veterinarians across Canada. This annual campaign gives veterinary professionals the opportunity to showcase their dedication to the profession and to the betterment of animal health. For tips and suggestions on how to get involved in Animal Health Week, visit the 'events' section of the website at: www.canadianveterinarians.net.



UNIVERSITY OF CALGARY VETERINARY SCHOOL

Please visit www.vet.ucalgary.ca in order to obtain the latest information as well as questions and answers regarding the establishment of the University of Calgary Veterinary School.

www.wcabp.com

- TO KEEP TABS ON YOUR ASSOCIATION & YOUR INDUSTRY**
- Updates on 2008 Conference
 - Proceedings from the 2007 Conference
 - Numerous links to sites of interest
 - Latest industry information
 - Vet Advice columns (contributed by WCABP members, and published in the Canadian Cattleman)

WCABP Vaccination Certificate Program

Booklets containing 25 Vaccination Certificate forms (in duplicate) are available from the WCABP office at a cost of \$10. Call 1-866-269-8387 to order.

National Veterinary Technician Week

OCTOBER 14-20, 2007

Animal Health Technologists and Registered Veterinary Technicians (AHT/RVT) enhance the quality of animal and human life through their dedication to the well-being of the animals placed in their care. During this week, please recognize these valuable members of your animal health care team!

Ray Butler 'Seeing Practice' Bursary Program

Have you considered a donation to the Ray Butler 'Seeing Practice' Bursary? Donations are used to provide bursaries to budding veterinarians who have shown an interest in large animal practice. The future of your practice may well depend upon someone who has taken up large animal practice as a result of a Bursary.

Nominations for the Boehringer Ingelheim WCABP Veterinarian of the Year

We urge all members to read the following nomination procedures and selection criteria. It is not too early to start thinking about deserving recipients for the 2008 Award.

Criteria to consider for nominees:

The veterinarian must be a member in good standing with their respective association, or if retired, to have been a member in good standing at the time of retirement. The Boehringer Ingelheim WCABP Veterinarian of the Year Award nominee should be a WCABP member; however, the Board may choose to recognize a non-WCABP veterinarian who has made a significant contribution to bovine practice in Western Canada. Deadlines for all nominations will be December 1st of each year.

By this award, the WCABP is attempting to honour, or recognize, a veterinarian who embodies some, but not necessarily all, of the following criteria:

- 1) History of service and dedication to veterinary practice and the cattle industry.
- 2) History of service to the veterinary profession, specifically to the WCABP and other Western Canadian provincial veterinary associations.
- 3) Reputation for clinical competency or for being a pioneer or leader in bovine medicine, surgery, or herd health.
- 4) If the nominee is a non-member, then this person must have a national or international reputation related to bovine medicine, surgery and herd health, and their accomplishments must have had a positive influence on bovine practice in Western Canada.

Nomination Procedure:

A call for nominations will be included in the two Newsletters leading up to the deadline for nominations. A notification for a call for nominations will be posted on the website for at least 90 days leading up to the deadline for nominations. The Secretary-Treasurer (S-T) may elect to send an email to all members requesting nominations.

Each nomination must include a brief biography and a rationale for why you believe this person is deserving of the award. The letter of nomination will be printed in the first Newsletter following the granting of the award. The S-T will collect all the nominations and present them to the Board for review and selection. The S-T will then make contact, at least two weeks in advance of the meeting, advising the recipient of the place and time of the award.

New Director Leads VIDO's Evolution

By VIDO Communications Staff

The year began with highs and lows for the University of Saskatchewan's Vaccine and Infectious Disease Organization (VIDO).

Interspersed with major funding announcements for the organization's International Vaccine Centre (InterVac), came the announcement that VIDO's director of 14 years, Dr. Lorne Babiuk, was stepping down.

VIDO is back on a high note, however, with construction of InterVac underway and the appointment of Dr. Andrew Potter as Director as of July 1, 2007.

Dr. Potter, an internationally recognized authority on vaccine development, joined VIDO in 1985 after being recruited from Health Canada. He currently holds a Senior NSERC Industrial Research Chair in Food Safety.

Dr. Potter is renowned for his visionary research into how bacteria cause disease. His groundbreaking projects at VIDO have generated "world firsts" in disease prevention and more than 40 patents for animal vaccine development and therapeutics.

He initiated VIDO's partnership with the University of British Columbia in developing the world's first vaccine to protect food and water from E. coli O157:H7, and was the first to develop a licensed animal vaccine through the use of biotechnology.

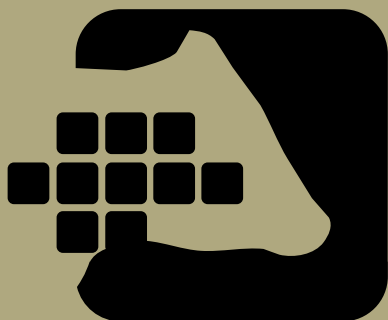
"Andrew's leadership will help continue the tradition of addressing the needs of the livestock community and furthering VIDO's contribution to human health," said Brian Perkins, Chair of the VIDO/InterVac Advisory Board.

In addition to leading InterVac, Dr. Potter will oversee VIDO's central role in the University of Saskatchewan's new, highly interdisciplinary School of Public Health. The School is intended to become a centre of excellence in fields including vaccinology and immunotherapeutics, veterinary public health, agricultural and rural public health.



Dr. Potter spent his undergraduate years at Carleton University and earned his PhD in microbiology in 1981 from the University of Otago (New Zealand). His initial interest was in how pathogens cause respiratory disease in animals.

He currently runs a successful research program well-funded by competitive grants at the national level. Recently, he has been working on the application of genomics to the animal health field, and forging links between the animal and human infectious disease research communities to ensure that technologies common to both fields can be applied to benefit both.



Administrator's Report

The summer has flown by! I enjoyed seeing some of our members at the Specified Risk Material meetings held in Calgary and Edmonton the end of May, as well as at the CVMA in Ottawa.

Since our report in the last newsletter we have:

- Prepared a series of financial working papers to assist the Association's external auditor conduct his audit of the Association's June 30, 2007 financial statements.
- Planning is well underway for 2008 Annual Conference to be held in Calgary next January. As you will read in this newsletter. Conference Chair, Dr. Melodie Chan has assembled an attractive array of speakers. Initial notices have been sent to veterinary journals and associations. We anticipate mailing conference information packages to all members, along with Membership renewals, sometime in October. Please note that the Conference will be held on Wednesday, Thursday, Friday this year rather than the historical Thursday through Saturday.
- Each quarter we assemble the articles and ads for this newsletter, as well as coordinate meetings of the Board.
- Initial administrative work has been done to get the Canadian Association of Bovine Veterinarians (CABV) up and running.

Enjoy the last days of summer!

Phyllis Mierau
Administrator

Faculty of Veterinary Medicine: Progress Report to WCABP Members

UCVM is well on the way to having a full complement of faculty members. We were pleased to welcome several new recruits on board this summer; Dr. Prasanth Chelikani, DVM, PhD, ruminant gastrointestinal physiologist; David Hall DVM, PhD, animal health economist; Christoph Mülling DVM, PhD, anatomist, Carmen Fuentealba DVM, MSc, PhD, pathologist and Oscar Illanes DVM, PhD, DipACVP, pathologist.

Next spring we will also be joined by veterinary immunologist Robin Yates DVM, PhD, and Dr. Amy Warren DVM, who is already boarded in anatomic pathology and is completing her board certification in clinical pathology.

We are still searching for more people to round out our Faculty. Specifically, we are looking to fill faculty positions in bovine internal medicine and herd health management. As you may know, Production Animal Health is an identified area of emphasis for UCVM. Successful applicants for these advertised positions will provide teaching support throughout the curriculum; including clinical teaching in the Distributed Veterinary Teaching Hospital (DVTH). Clinical activities of the successful applicants will take place in the DVTH.

We are particularly interested in individuals with research interests related to production limiting diseases in beef cattle, but we are also seeking candidates with other areas of expertise. UCVM offers unique research opportunities through participation of its members in the University of Calgary Health Research Institutes.



We would like to hear from you if you are interested in applying for any of the posted positions at UCVM or if you know of any outstanding candidates that we should consider. More information about the positions can be found on our website. www.vet.ucalgary.ca

If you have any questions about the Faculty, or the posted positions, please don't hesitate to call or email.

On another front, the accreditation process went well this summer. In June we hosted a team representing the American Veterinary Medical Association and the Campus Alberta Quality Council. We will keep you informed concerning our accreditation process and look forward to sharing good news in this area.

I look forward to working with you in the future.

Alastair Cribb
Dean

Dairy Cattle Industry Launches National Health Project



For over 10 years, dairy producers using and veterinarians using the Dairy Comp suite of products of herd management software have been collecting herd health information. Recently, field staff of CanWest Dairy Herd Improvement has been collecting herd health information provided by the producer. Whether entered by the producer or field staff this health information has been uploaded into the Canadian DHI database for over a decade.

For over a year, dairy industry partners have been working cooperatively to enhance the health data collection. The DHI system has been updated to include the calculation of health benchmarks, the creation of a herd health summary report and implement a communication plan to inform producers and advisors on the collection of health data.

"Society is placing more emphasis on health, including wholesome food products from healthy cows. This cooperative industry project to develop a national dairy cattle health database is very timely," said Michael Hall, Chairman, Canadian Dairy Network. "This information will be used by dairy producers, herd veterinarians and other advisors to make important herd management and culling decisions. In the future, we will also be able to calculate genetic evaluations allowing producers to breed for increased disease resistance."

The initial focus will be on eight key diseases, identified by Kelton, et al., Journal of Dairy Science (1998), as happening frequently in herds, could be consistently diagnosed and had a significant impact on dairy herd profitability:

- mastitis,
- lameness,
- cystic ovarian disease,
- displaced abomasum,
- ketosis,
- metritis,
- milk fever, and
- retained placenta.

After consulting with veterinarians, there will also be emphasis on collecting information on:

- animal injury,
- calf diarrhea, and
- calf pneumonia

Producers are all receiving a laminated sheet providing definitions of the key diseases. They are encouraged to work with the herd veterinarian to ensure consistent and on-going data collection. Veterinarians are receiving a more elaborate definition of the diseases and background information on the project.

The national dairy cattle health data management system will place Canada among the leading countries providing herd health management information and genetic evaluations to improve disease resistance in the years to come.

The development of the Canadian National Health Project was primarily funded by \$600,000 provided by Holstein Canada as part of its allocation from Agriculture and Agri-Food Canada's "Sustaining the Genetic Quality of Ruminants Program".

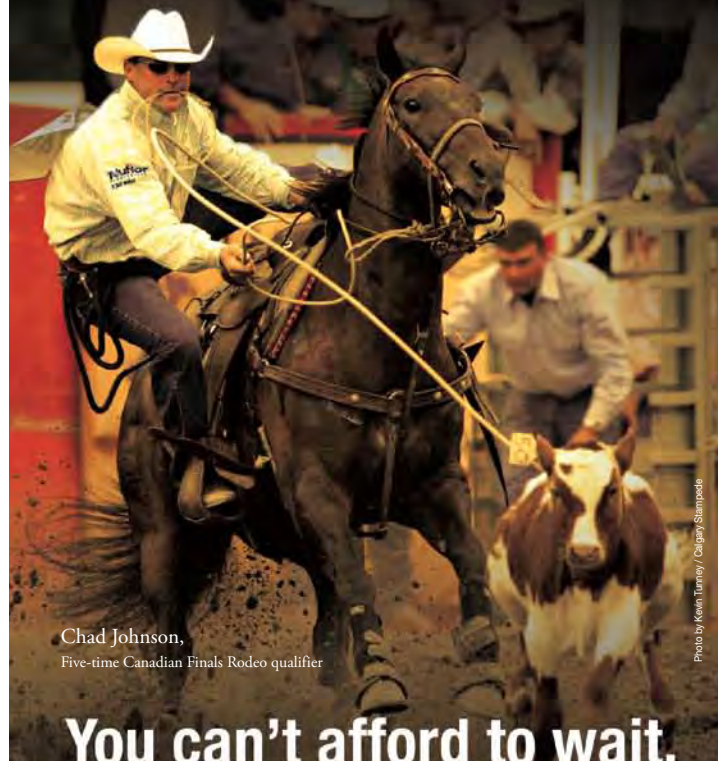
For more information on the Health project veterinarians can contact DHI field staff or contact CanWest DHI at 1-800-549-4373. 🐾



WCABP

Western Canadian Association
of Bovine Practitioners

Act fast.



Chad Johnson,
Five-time Canadian Finals Rodeo qualifier

You can't afford to wait.

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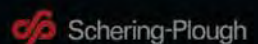
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Baytril 100 for Tough BRD

FAST, EFFICIENT AND RELIABLE... SOUND FAMILIAR?

Baytril 100[®] is Canada's only single-dose, rapid-killing fluoroquinolone approved for therapy of bovine respiratory disease. Baytril starts killing the bugs that cause BRD within minutes, significantly reducing fever within 24 hours and improving attitude score within 24 to 48 hours¹.

Single-dose therapy with Baytril 100 saves your clients the time and expense of repeated chute trips, and reduces the stress that handling can place on already sick cattle².

The excellent syringeability of Baytril 100³ offers quick and easy administration of therapy, even in the toughest Canadian climates.

INJECTABLE
Baytril 100
(enrofloxacin)

The right choice at the right time.



Bayer HealthCare
Animal Health

¹ Data on file (Study Report 74653). ² Baytril 100 and A180 comparison study (BL3261).

³ Syringeability and Viscosity Testing of Baytril 100 Injectable Solution – Report 03-02. * Please see product insert prior to use for complete details

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Would You Like to Be Part of the Ray Butler Seeing Practice Bursary?

The call has gone out to first-year students at the Western College of Veterinary Medicine to apply for a \$1,000 bursary to spend a minimum of 12 days accompanying a large animal practitioner to gain a better appreciation of the benefits and shortcomings of rural practice. The three recipients will be chosen by November 30th.

Two previous award winners were unable to find practitioners who would be willing to allow them to visit their practices. In order for the program to work effectively, veterinarians should think back to the time when they were in the same position and go out of their way to accommodate these young people.

If your clinic would be interested in exposing these students to large animal practice, please call the WCABP office (1-866-269-8387).

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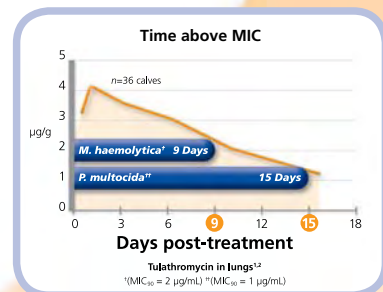
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2008 WCABP Conference Slated for Calgary

A visiting speaker to one of the recent WCABP conferences was heard to remark, "This is one of the best veterinary conferences I have ever attended. Your meetings have to be among the best kept secrets in veterinary medicine".

WCABP conferences are designed specifically for western Canadian practitioners with interests in cattle practice, offering more than 18 hours of CE credits in three days.

Among the 13 speakers at the 2008 conference will be: Dr. Mark Bryan, Director of Central Southland Vets of Winton New Zealand which employs nine veterinarians in a staff of 27 and provides service for 90,000 dairy cows; Dr. Peter Constable, co-author, with the late Dr. Otto Radostits, of the recently-published tenth edition of Veterinary Medicine and currently Head of the Department of Veterinary Clinical Sciences, Purdue University; Dr. Larry Fox, formerly a veterinary practitioner and now in the Department of Veterinary Clinical Sciences, Washington State University; Dr. Pat Gordien, formerly a practitioner in Arizona and Wisconsin and recently appointed to the Food Supply Veterinary Services faculty at Iowa State University; Dr. David Steffen, also a former practitioner and currently Director of the Veterinary Diagnostic Center at the University of Nebraska - Lincoln and; Dr. John Tait, a private

practitioner for nine years and currently director of the Veterinary Teaching Hospital, Ontario Veterinary College and Vice-President of Veterinary Centers of America.

It is not too early to mark your calendar and plan to attend the WCABP 2008 Conference which will be held on Wednesday, Thursday and Friday, January 16, 17 and 18 at Calgary's Executive Royal Inn, the site traditionally selected, for good reason, by the WCABP to host meetings held in Alberta. The schedule for the final day has again been compressed to enable most of our members to return home that night. The "Inn" is well known for its functional meeting rooms, excellent food services and congenial staff. Phyllis Mierau, WCABP Administrator noted that; "We were very pleased that the Royal Inn could accommodate us in 2008 and once again have been able to negotiate a very attractive room rate for our members".

Part of the responsibilities of each WCABP President-Elect is to assume the chairmanship for the upcoming annual conference. The honor this year has fallen to Dr. Melodie Chan, who with her planning group, notably Drs. Tye Perrett and Stephen Acres, has put together what promises to be the "best ever".



Conference Schedule

WEDNESDAY, JANUARY 16TH

BEEF SESSION

Diagnostic Approaches to Bovine Congenital Disease Investigation
 Inherited and Emerging Congenital Diseases of Current Concern
 Teratogens, Malformations, Conformational Defects and the Essentials of Genetic Disease Control Program
Dr. David Steffen

Practical Measurement of Passive Transfer and Assessment and Its Importance in Western Canadian Beef Calves
Dr. Andy Acton

Lead Exposure in Feedlot Cattle
Drs. Sylvia Checkley and Corey Jones

DAIRY SESSION

Contagious Mastitis with a Focus on Staph aureus and Mycoplasma
 Non-Contagious Mastitis with a Focus on Coagulase - Negative Staph and Environmental Pathogens
 Heifer Mastitis and Pre-Partum Therapy
 Teat Skin Health and a Review of Teat Scoring Methods
 Staph and Environmental Pathogens - Current Thinking, Therapies and Management Strategies
Dr. Larry Fox

The Basics of Setting Up In-Clinic Milk Culture Labs
 Review of Milking Time Hygiene and Evaluating Milking Routines
 Teat Scoring in the Field and a Review of Causes of Teat Lesions
 Basic Milking System Equipment Evaluations for the Private Practitioner
Dr. Pat Gordien

THURSDAY, JANUARY 17TH

Modified Transfixation Pinning and Casting Technique to Repair Radioulnar Fractures (Case Report)
Dr. Andy Acton

Calf Resuscitation Post Dystocia
 Calf Scours: Review of Etiology, Pathogenesis, and Current Management Therapies
Dr. Peter Constable

WCABP AGM

Challenges Faced by Rural Veterinary Practices Overseas
Dr. Mark Bryan

How to Keep "People Happy" or "Happy People" in Rural Alberta
Dr. Ian Goodbrand

Succession Planning in Veterinary Practice
Dr. John Tait

FRIDAY, JANUARY 18TH

Key Changes and Trends in Large Animal Practice Demographics in Western Canada
Dr. Murray Jelinski

Larger Veterinary Practices: Managing Human Resources and The Social Aspects
 Larger Veterinary Practices: Challenges and Opportunities?
Dr. Mark Bryan

Appropriate Use of Antimicrobials in Calf Scours
Dr. Peter Constable

WOULD YOU RECOGNIZE A CLINICAL CASE OF BSE?

Update on the National and International BSE Situations.
Dr. Gary Little

Clinical Examination of the Ruminant Nervous System
Dr. Peter Constable

Differential Diagnosis of Nervous Diseases, Focusing on BSE
Dr. Chris Clark

OPEN DISCUSSION





SPEAKERS TEAM UP TO PRESENT DAIRY PROGRAM

A full day of presentations on udder health will be featured on Wednesday, January 16 when Dr. Larry Fox of Washington State University teams up with Dr. Pat Gorden of Iowa State to focus in on the latest in up-to-date information on udder health.

Dr. Fox received his B.S. in Animal Science from Cornell in 1977, M.S. (Dairy Science) from Virginia Tech in 1980 and, Ph.D. (Dairy Science) Wisconsin in 1983. He was on the Faculty at the University of Hawaii from 1983 to 1985 then joined Washington State University where he is currently a professor and veterinarian in the Departments of Animal Science and Veterinary Clinical Medicine and Surgery.

He has published extensively, notably in the fields of mastitis control and udder health. Dr. Fox serves on the Board of Directors and Executive Board of the National Mastitis Council and is currently President-Elect.

His research is focused on development of new methods for controlling contagious mastitis, principally associated with infections by *Staphylococcus aureus* and *Mycoplasma*. Current studies involve fingerprinting *S. aureus*, to trace the pathogen from its reservoir to fomite to the host, the cow. Other research projects are designed to examine the role *S. aureus* exotoxins play as superantigens in mastitis, and their effect on milk quality. Similar technologies are being used in an effort to control *Mycoplasma sp. mastitis*.

Dr. Gorden received his veterinary degree in 1993 from Iowa State. He is a Diplomate with the American Board of Veterinary Practitioners, certified in dairy practice.

For the past 14 years, he has been a dairy practitioner in Wisconsin and Arizona. He also was an adjunct lecturer in the School of Agriculture at the University of Wisconsin-Platteville, and was supervising veterinarian in his practice for the University of Wisconsin School of Veterinary Medicine's Clinical Sciences Ambulatory Program.

Dr. Gorden recently was appointed to the faculty of Iowa State University as senior dairy clinician in the Food Supply Veterinary Services unit to provide care and services to Iowa dairies and teach dairy production medicine in the College of Veterinary Medicine. He will also design and monitor the success of dairy production medicine preceptorships for fourth-year veterinary students.

He is active in veterinary and producer associations, currently serving on the National Mastitis Council Board of Directors, and is chair of the Milk Quality and Udder Health Committee of the American Association of Bovine Practitioners. In 1997, he was President of the Southwest Wisconsin Veterinary Medical Association.

The program planned for the 2008 WCABP Conference was designed jointly by Drs. Fox and Gorden to be of practical value for dairy practitioners and will cover a range of updates on, but not restricted to: current thinking on treatment and control of mastitis; procedures for establishing in-clinic milk culture labs; improving milking practices; teat skin health; teat scoring methods and; milking equipment evaluation.

NEW ZEALAND DAIRY VETERINARIAN A MAJOR CONFERENCE SPEAKER

Dr. Bryan qualified from Glasgow in 1988, and spent the next seven years flitting between intensive dairy practice in the North of England and climbing mountains which took him to such remote regions as the Himalayas, including a number of trips to Nepal. A climbing trip to New Zealand in '89 convinced him that this was the better place to do both. He eventually settled in the community of Southland on the South Island where the dairy industry was beginning to re-energise itself. Ten years on he is still there and is now a director of Vet South Ltd., a firm that currently employs 24 veterinarians in a total complement of 44 staff and services approximately 150,000 dairy cows. In addition, he is active in the Society of Dairy Cattle Veterinarians of the New Zealand Veterinary association and currently serves as a Board member.

Dr. Bryan has a Masters in Epidemiology, and runs VetQuest, which is the research arm of VetSouth. His daily work is now split between dairy work and research; the practice manager takes care of the managing and all the other things he "is not so good at, such as being nice to the staff" (his words).

Three years ago they built a new, purpose-built clinic, which to quote Dr. Bryan "is both fantastic and long overdue, but was not without a disproportionate amount of stress". Two years ago they amalgamated with a similar practice 60 kms away to form VetSouth Ltd. He now acknowledges that he finds himself among the best team of veterinarians he has ever worked with which has minimized all of these stresses and made the job worthwhile.

His Thursday presentation will focus on the challenges that he and his colleagues have faced, such as: the rural environment; reacting to the changing demographics of the practice area; attracting staff; changing farmer expectations; succession and the business environment. All these factors were strong drivers of the way they have shaped their practice and business.

On Friday Dr. Bryan has two sessions. In the first he will explore the opportunities and the challenges with regard to HR faced by his group: staff recruitment and retention; plans for succession; generation X - generation Y; management structures re: human resources; their "Swede safari" initiative with Massey University and other topics. His second session will focus on the business opportunities and the challenges faced and their responses to them, such as value-added programs for clients (animal health programs; trace element monitoring, parasite control); research and development; farm development and partnerships; motivating staff; getting the management right; adjustments to structure; defining expectations; and more.

Dr. Bryan plans to attend all three days of the Conference. Rest assured that he will prove to be a very interesting person to get to know over a cup of coffee (or whatever).

PURDUE'S DR. PETER CONSTABLE TO BE A FEATURED SPEAKER

Dr. Peter Constable, Professor in the Department of Veterinary Clinical Sciences, divides his time among teaching veterinary students, conducting research, attending to administrative duties, and speaking around the globe.

After earning his veterinary degree at the University of Melbourne, Australia, in 1982, Dr. Constable worked in Australia, the United States, and England. He then completed Master's and PhD degrees at The Ohio State University and joined the University of Illinois faculty in 1993 before leaving in 2006 for his current position as Head of the Department of Veterinary Clinical Sciences at Purdue University.

Basic and applied research is enduring interests of his, on topics ranging from treatment of calf diarrhoea, to comparative aspects of acid-base homeostasis. His research has been published extensively, with over 130 peer-reviewed articles appearing in the Journal of the American Veterinary Medical Association, American Journal of Physiology, and Journal of Applied Physiology, to name a few. In addition, he was co-editor of Veterinary Clinics of North America Food Animal Practice, Fluid and Electrolyte Therapy (1999), and editor of Ruminant Neurological Diseases (2004), which includes a section on bovine spongiform encephalopathy (mad cow disease). He was a coauthor on the recently released 10th edition of Veterinary Medicine, A textbook of the Diseases of Cattle, Horses, Sheep, Pigs, and Goats (Radostits, Gay, Hinchcliff, and Constable).

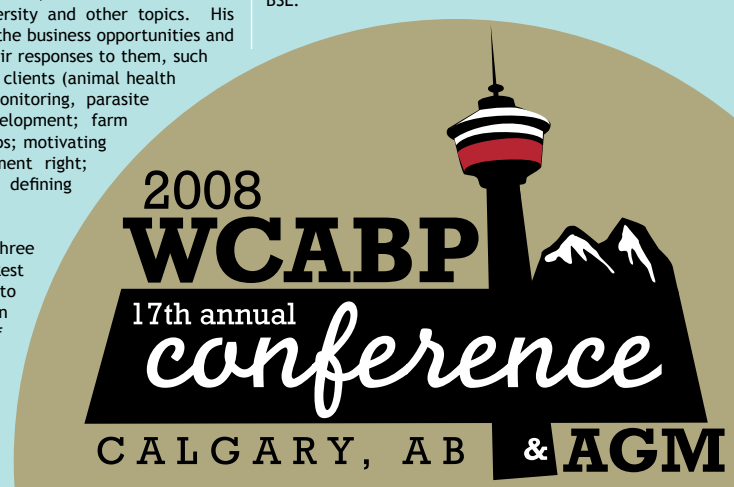
In demand as an international speaker, Dr. Constable has given invited lectures and conference presentations in Germany, Italy, France, Great Britain, Portugal, Spain, Japan, Egypt, Turkey, and his homeland of Australia. Dr. Constable relaxes by playing the piano and golfing. His current goal is to bring his golf handicap back down to 3! He and his wife Renée Mullen are busy at home raising their 4 year-old daughter, Emily. The family enjoys traveling and watching movies together.

Dr. Constable has agreed to make presentations on topics of practical interest to beef practitioners: post-dystocia resuscitation of calves and; an in-depth review of calf scours including the appropriate use of antimicrobials. In addition, he will be reviewing the differential diagnosis of nervous diseases as part of the Friday afternoon session on BSE.



WCABP

Western Canadian Association of Bovine Practitioners





INHERITED DEFECTS TO BE FEATURED AT 2008 BEEF SESSION

Dr. David Steffen is a Nebraska native and a 1987 graduate of Iowa State University College of Veterinary Medicine. He was raised on a farm and ranch in northeast Nebraska and has a brother and father still ranching.

Dr. Steffen will present a three-hour program covering a number of topics related to inherited diseases that will be of practical interest for beef practitioners. Topics to be covered include: diagnostic approaches; congenital diseases of cattle that are of current concern; and essentials of a genetic disease control program.

He received a PhD in pathology from Kansas State University studying inherited diseases after practicing briefly in a mixed animal practice in Northwest Iowa. He was a pathologist at North Dakota State University for several years before returning to Nebraska.

Dr. Steffen is currently director of the Veterinary Diagnostic Center and remains active as a pathologist, undergraduate advisor and case coordinator. In addition, he continues consulting on congenital and genetic diseases with cattle producers around the country. He currently consults with Angus, Simmental, Shorthorn, Maine Anjou, and Hereford associations on a regular basis and research in this area has been supported for many years by the National Association of Animal Breeders.

He is also active researching BVDV infection; exploring viral pathogenesis, vaccine efficacy and diagnostic approaches with other VBMS faculty.



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BSE IN CANADA - AN INTERNATIONAL PERSPECTIVE

Gary Little graduated from the Western College of Veterinary Medicine in 1985 and practiced predominantly small animal medicine and surgery prior to joining the Meat Hygiene branch of Agriculture Canada in 1992. Since 1994, he has been involved in the national animal health programs, initially as a district veterinarian in North Manitoba and more recently as senior staff veterinarian at the Canadian Food Inspection Agency in Ottawa. Since 2001 he has worked predominantly in the area of transmissible spongiform encephalopathies and beginning 2003 exclusively on BSE related issues. This included involvement in the design and implementation of the enhanced BSE surveillance program, in Canada's international market recovery efforts and as a national BSE spokesperson.

The impact of bovine spongiform encephalopathy continues to be felt around the globe. Dr. Little will provide an update on the international BSE situation and how Canada continues to play an active role in mitigating the international community's response to this disease. An update on the Canadian Veterinary Reserve and on animal traceability will also be presented.



HOTEL BOOKING INFORMATION

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DR. MARK BRYAN

DAIRY PRACTITIONER
WINTON, NEW ZEALAND

DR. SYLVIA CHECKLEY

FOOD SAFETY DIVISION
ALBERTA AGRICULTURE AND FOOD
EDMONTON, ALBERTA

DR. CHRIS CLARK

DEPARTMENT OF LARGE ANIMAL CLINICAL SCIENCES
UNIVERSITY OF SASKATCHEWAN
SASKATOON, SASKATCHEWAN

DR. PETER CONSTABLE

DEPARTMENT OF VETERINARY CLINICAL SCIENCES
PURDUE UNIVERSITY
WEST LAFAYETTE, INDIANA

DR. LARRY FOX

DEPARTMENT OF VETERINARY CLINICAL SCIENCES
WASHINGTON STATE UNIVERSITY
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DR. IAN GOODBRAND

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DR. PAT GORDEN

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New Web Site Launched For Verified Beef Production Program

A new web site is available to help Canadian beef producers access information on the Verified Beef Production (VBP) program - Canada's on-farm food safety program for beef.

The VBP web site, located at www.verifiedbeef.org, features information on program fundamentals, latest news and developments, including contact information to find out about VBP workshops across the country. It also includes online access to core program resources for producers, such as the VBP producer manual, fact sheets on good production practices and sample records.

"The web site provides an additional way for producers and those who deal with producers to obtain information on the VBP program," says Terry Grajczyk, VBP national program manager. "More producers are using the Web as a resource. At the same time, many people who deal with producers and relay information to producers now routinely use the Web as a resource."

The site was constructed to be simple, straightforward and easy to use, particularly in rural areas that do not have high speed Internet access, says Grajczyk. "The approach was to structure the site so producers and others can quickly get the information they need."

An "About Us" section contains core information and background on the program. "Latest News" includes regularly updated news releases and feature articles. "VBP Across Canada" provides contact information for provincial Program Delivery Agents who producers can contact to sign up for VBP workshops.

The site also includes a "Producer Resources" section, offering downloadable resources such as manuals, fact sheets and sample records; and a "Links" section providing access to Web sites with other provincial, national and international on-farm food safety program information.

"Much of the core resource information on the site will be of most interest to beef producers," says Grajczyk. "But a lot of the information on latest news and developments may also be of value to media, extension, industry and others who need current, easy-to-access information on the program. We encourage its use."

The VBP program is a grass roots driven, industry-led program designed to assist producers with providing assurances of good on-farm food safety practices, she says. This helps to uphold consumer confidence in the products and practices of Canada's beef producers.

The VBP program is also part of a broad, global trend in food production, both in Canada and internationally, toward verified food safety standards, says Grajczyk. This includes many on-farm food safety management programs in different sectors of food production implemented in Canada and major food production countries around the world.

"The bottom line we aim for with the VBP program is stronger competitiveness for Canada's beef industry, as food safety continues to grow as a major factor in consumer buying decisions," she says. "The new Web site, as part of the broader VBP program communications effort, will help support that goal."

The VBP Web site also includes a "Contact Us" section to invite feedback. "The feedback received through the Web site and through VBP workshops across the country is important to the ongoing development of the program," says Grajczyk. "That includes ongoing development of the Web site, which we see taking on a growing role as an interactive education tool."



Dusty Dorran, B.Sc. Ag
Technical Sales Representative

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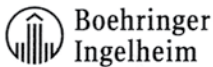


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Ethanol Byproducts Pelletized

By Con Comis

One hundred percent of distiller's dried grains with solubles (DDGS), a byproduct of ethanol production, can be pelletized without adding a binding agent or anything else, according to Agricultural Research Service (ARS) scientists and cooperators.

ARS agricultural engineer Kurt Rosentrater has turned DDGS from corn-based ethanol production into high-quality pellets using processing equipment at a commercial feed mill. And the heating used in pelletizing did not harm the high-protein, low-starch nutrient content. Rosentrater is at the ARS North Central Agricultural Research Laboratory, Brookings, S.D. He does this research with colleagues at ARS and at nearby South Dakota State University.

Cattle feed is currently the primary outlet for distiller's grain. But other livestock such as swine and poultry can also eat it. To date, there are no commercial DDGS pellets available for livestock, which limits the byproduct's use in rangeland settings. DDGS is the protein, fat, fiber, unconverted starch and ash left over after ethanol production.

Fish raised for food in the growing aquaculture industry eat pelletized feed, but those pellets contain commercial fishmeal as a protein source, not the less-expensive distiller's grain. Rosentrater is experimenting with adding soy and corn flour to distiller's grain to produce pelletized feeds, to see how far he can reduce the fish meal—or if he can eliminate it entirely.


This pelletizing work also promises to solve a growing problem of product deterioration—as well as hardening and caking problems during shipping and storage, which can clog the various chutes and

bins that DDGS flows through. With an increasing supply of the byproduct, ethanol plants have to ship it greater distances to reach markets.

South Dakota, one of the country's biggest ethanol-producing states, expects to produce a billion gallons of ethanol to fuel vehicles next year—about the entire nation's production in 1999. Today, nationwide ethanol production is more than five billion gallons a year, and that amount will increase as new plants come online.

Ethanol plants are spreading outside of the Corn Belt, with plants now in New York and California, for example.

ARS is the U.S. Department of Agriculture's chief scientific research agency.



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A Highly Constructive Summer at WCVM



This summer, project managers added another welcome check mark to their growing list of completed expansion and renovation projects at the Western College of Veterinary Medicine (WCVM).

The latest project to open its doors in early July was the Veterinary Teaching Hospital's new two-storey addition. The structure is a major part of WCVM's \$57-million expansion that includes 8,000 square metres of new space and renovations to about 7,000 square metres in the college's existing facility.

Besides new examination rooms and designated areas for specialized clinical services, the expanded space includes new reception areas for the Large Animal and Small Animal Clinics, new offices and garage space for the hospital's Field Service and additional office space for WCVM faculty and administrative staff.

But as construction signs and safety barriers disappeared in front of the Veterinary Teaching Hospital, work continued to ramp up on other projects. Now, the most visible construction site is on the building's southeast side where crews are working in the expanded diagnostics facility – an area that will eventually include a new post mortem room and additional space for diagnostic laboratories and administrative offices.

Equipped with increased biosecurity and biosafety standards, the enhanced diagnostic facilities and equipment will enable WCVM to work with its partners in addressing major animal health issues including preparedness for foreign animal disease diagnostics.

David Humphreys of UMA Engineering Ltd., project manager for WCVM's expansion and renovation project, gives a quick overview of the veterinary college's other construction developments and upcoming plans:

- **Animal Care Unit:** An expansion to the original ACU and renovations to the existing area were completed in January 2007.
- **Research wing:** Staff and students moved into the 1,468-square-metre, two-storey facility on April 30. Crews will wrap up specific projects in the wing this summer. The facility adds crucial office space and two multi-user research laboratories to WCVM.
- **Veterinary Teaching Hospital renovations:** A new large animal chute system was completed and opened in January 2007. The system, which includes heavy-duty animal stocks and a livestock tilt table, allows WCVM's clinical teams to move large animals in a much safer manner through the Large Animal Clinic area. Workers completed renovations to the small animal surgery, anesthesia, intensive care and treatment rooms in mid-November 2006.
- **Veterinary Teaching Hospital expansion:** The two-storey addition opened to staff, faculty and the public in early July. Renovations to areas in the existing hospital will continue into early 2008.
- **Diagnostics area:** Expansion work on the structure began in the fall of 2006 after the temporary loading dock-receiving facility was established. At the same time, crews completed preliminary site work to relocate existing services. Workers have completed the basement and main floor on the diagnostics expansion site. Work will continue on the second floor and roof during the summer and early fall of 2007. As part of the diagnostics expansion, workers will install a new biomass handling system that will replace the existing incinerator.
- **Room 2115 lecture theatre renovation:** This spring, construction crews began working to increase the seating space in one of WCVM's main lecture theatres. The additional seats and room renovations prepare the College for an increased student enrollment in its undergraduate veterinary degree program. Construction in the lecture theatre was scheduled for completion in late August 2007.
- **Future design work is ongoing** on a number of academic facility improvements, additional large animal facility improvements and on the renovation of the existing diagnostics laboratory once the expansion is completed.

Visit www.wcvm.com for further construction updates. 🐾



WCVM researchers of all disciplines have access to a wide range of molecular technologies in the multi-user laboratory on the first floor of the College's new research wing.



A bull awaits an examination in the new large animal chute system of WCVM's Veterinary Teaching Hospital.



Workers prepare to pour concrete pavement in front of the completed addition to WCVM's Veterinary Teaching Hospital. Besides new examination rooms and small teaching areas, the new facility includes expanded reception space for the large and small animal clinics, and new offices and garage space for the hospital's field service.



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MISSION STATEMENT

The objectives of the Association are:



- 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 cattle 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 these topics to the attention of the Dean of the Western College of Veterinary Medicine, and any other appropriate institution or organization;
 - c. otherwise encouraging research into beef and dairy production.
- 3) To establish and maintain liaison with appropriate organizations as designated by the Board.

Changes to Prairie Diagnostic Services

Prairie Diagnostic Services is pleased to announce some important changes to the testing options and prices for toxicology services. Mineral analysis on serum and tissue samples is now a more affordable option, which may change how veterinarians utilize trace mineral analysis in their practice.

Feed analysis for trace mineral status is not often performed on feedstuffs for livestock - when it is used, it often does not recognize nutrient interaction or bioavailability. Tissue (e.g. liver or non-hemolyzed serum) analysis does take all of these factors into consideration. In the case of Mineral panel #1, one analysis will provide levels of eight different trace minerals. The levels of Mg, Mn, Fe, Co, Cu, Zn, Se, and Mo, are all determined by the same panel, with a current turnaround time of one to two days.

Western Canada is marginal with respect to many minerals. There is also extreme variation in many localized areas (much as overall soil quality is variable between areas). Tissue analysis will detect subtle im-

balances that may present as vague sub-clinical production losses. Many of these losses develop gradually over time. The mineral profile given by Mineral panel #1 is extremely useful to assess changes over time and any gradual changes in the herd. Many veterinarians, by using this panel, have been able to identify problems that they did not originally anticipate, e.g. Co or Mn deficiency. The ability to assess the status of a herd going into a winter feeding program could be very useful. As well, looking at animals in larger production units such as feedlots, allows the veterinarian and nutritionist to assess the success of the supplementation program in meeting the needs of their livestock.

One of the potential benefits over time will be the ability of veterinarians and producers to compile data across regions, to identify deficiencies or imbalances and assess how the traditionally deficient areas for certain nutrients may be expanding or changing over time.

For many producers, the identification of baseline herd data over a period of time can be very important. This is a preventative approach that requires some change in thinking about trace mineral imbalances or deficiencies. Results of tissue or serum mineral analysis could be used to help custom design herd mineral programs. This type of proactive, production-oriented approach is in line with what our clients will expect from us as practitioners in the future.

The price structure for many of the individual tests and panels performed in the Toxicology Laboratory has been changed. Please refer to the new (July 2007) copy of the PDS Fee Schedule for costs of specific tests.

Dr. Barry Blakley is the Diagnostic Consultant to the Toxicology Laboratory, and is available for discussion of how the services of the Toxicology Lab may be beneficial in your practice situation. He can be reached at (306) 966-7350.

Member News

ANDY ACTON

Client Services/Business Development
(part-time)

Prairie Diagnostic Services (Regina and Saskatoon) has found a unique way to get in closer touch with their veterinary practitioner clientele - they "hire" one of them! Dr. Andy Acton of the Deep South Animal Clinic at Ogema, SK has been providing Client Services for PDS on a part-time basis since July. He says, "Being an active practitioner, I want the same things from our diagnostic service as most other vets want. If I can provide meaningful advice to PDS on certain directions they can go, that's great. On the other side of the coin, there are services that PDS currently offers that practitioners could use more - with the correct knowledge and support. I want to make sure they have that support. I'm very grateful for this opportunity. Getting to interact with, and learn from both PDS staff and veterinary practitioners is a real privilege."

Andy grew up on a mixed farm south of Lemberg, Saskatchewan, an hour east of Regina. He received his DVM degree from WCVm in 1992, at which time he entered mixed practice with classmate Duncan Hockley at Ogema, SK. Fifteen years later, he still calls Ogema home and operates the Deep South Animal Clinic with the help of an extremely capable and dedicated staff of six. The practice still spends a large percentage of time on beef cattle, but also now has significant amounts of equine, swine and small animal caseload.

"The practice has never stopped evolving, and I continue to enjoy the diversity we see on a daily basis," he adds. Having had the benefits of some fantastic mentors during and after Vet School, he now makes student mentorship a very important aspect of his own practice. Many students from WCVm, St. Hyacinthe, Leipzig (Germany), and Veterinary Technology programs across the west have gained practical experience at Ogema.

More recently, clinical research has taken some of Andy's time. A large-scale project reviewing passive transfer in beef calves has been completed by the practice and data is currently being analyzed. Hopefully results will be coming soon!



Andy is a past director and president of the WCABP, and has been involved with SVMA on a few committees, including the Beef Quality Starts Here working group and as a liaison to the Saskatchewan Stockgrowers Association. He has also completed credentialing for the Beef Cattle specialty of the American Board of Veterinary Practitioners. His "first try" at passing the Board Examination and earning ABVP diplomate status will be this November.

Andy and Yvonne, his wife of 12 years, live on their farm just south of Ogema with their daughter Kelsey, (6) and son Corin, (2). While Andy enjoys the odd game of golf, most of the couple's activity revolves around kids and the farm, where they raise warmblood horses and keep a few cattle in the summer.



WCABP

Western Canadian Association
of Bovine Practitioners



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¹ Bovine Veterinarian, Calf Immunology, February 1996.

² Wittum TE, Perino LJ. Passive immune status at postpartum hour 24 and long term health performance of calves. Am J Vet Res, 1995, 56(9) 1149-1154 05/07-4846

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Think Large!

THINK LARGE materials are available from the WCABP Office. These include:

- Brochures, which highlight some of the attractive features of a career in bovine practice. Twenty-five copies are available to each member free of charge. Additional copies will be invoiced to you at our cost (approximately 43 cents/copy).
- A 23-slide Power Point presentation that expands on the theme presented in the brochure. The presentation can be downloaded from the WCABP website www.wcabp.com
- A 12½-minute video presentation (VHS) also titled Think Large. In addition to the standard VHS tapes, we have DVDs as well as CDs (suitable for use in exhibits), which may be borrowed for your use.

Large!