

# CSAS/SCSA 2011 Halifax - Program

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## Tuesday May 3rd

<u>Time</u>	<b>Event</b>	<b>Location</b>
1300 - 1700	CSAS Executive Meeting	Board Room
1600 - 1830	Exhibitor setup	Commons
1830 - 2100	Registration and reception	Commons

## Wednesday May 4th

### **Food Production and the Environment Symposium**

<b>Time</b>	<b>Event</b>	<b>Location</b>
0700 - 0730	Exhibitor setup	Commons
0730 - 0900	Poster presentations and refreshments / Student competitions	Commons
0900 - 0915	Welcome and Introduction - <i>Robert Berthiaume</i>	Guild Hall
0915 - 1000	<b>Pasture for sustainable food production</b> - <i>A. Fredeen, Nova Scotia Agricultural College</i>	Guild Hall
1000 - 1045	<b>Methane emission mitigation strategies</b> - <i>A. Wright, University of Vermont</i>	Guild Hall
1045 - 1130	<b>National centre for livestock and the environment</b> - <i>K. Ominski, University of Manitoba</i>	Guild Hall
1130 - 1200	Panel discussion	Guild Hall
1200 - 1400	CSAS Annual General Meeting - Luncheon	Commons
1400 - 1700	CSAS Technical Sessions/Student Competitions (GH, Guild Hall)	GH 1 & 2
1900 - 2100	CSAS evening social event - Halifax waterfront ( <i>details at on-site registration</i> )	

## Thursday May 5th

### **The Transition Dairy Cow Symposium**

<b>Time</b>	<b>Event</b>	<b>Location</b>
0730 - 0900	Poster presentations and refreshments	Commons
0900 - 0915	Welcome and Introduction - <i>Julie Small</i>	Guild Hall
0915 - 1000	<b>Dry period length today</b> - <i>D. Santschi, Valacta (Daniel Lefebvre)</i>	Guild Hall
1000 - 1045	<b>Strategies to improve fertility</b> - <i>D. Ambrose, Alberta Agriculture Food Rural Development</i>	Guild Hall
1045 - 1130	<b>Nutritional management and health outcomes</b> - <i>M. Waldron, University of Missouri</i>	Guild Hall
1130 - 1200	Panel discussion	Guild Hall
1200 - 1300	Lunch on your own	
1300 - 1700	CSAS Technical Sessions/Student Competitions (GH, Guild Hall)	GH 1
1300 - 1700	<b>Symposium: Value Added Meats (VAM)</b> ( <i>GH 2 Program details below</i> )	GH 2
1800 - 2100	Annual Awards Banquet/Closing	Commons

## Symposium: Value Added Meats (VAM) - Thursday 1300 - 1700 (Guild Hall 2)

- **Welcome and Introduction** - *Shannon Scott, ALMA, Ltd.*
- **Flax supplementation effects on fatty-acid and sensory characteristics of beef** - *Shannon Scott, ALMA, Ltd*
- **Understanding the formation of dark-cutting beef** - *Heather Bruce, University of Alberta*
- **The use of sugars in high omega-3 processed pork products** - *Heather Bruce, University of Alberta*
- **Improving oxidative stability of omega-3 enriched pork** - *Krishnadas Peethambaran, University of Alberta*
- **Canadian Consumers response to innovation in meat packaging** - *Sven Anders, University of Alberta*
- **Microbiological safety of high pressure treated poultry meat** - *Michael Gänzle, University of Alberta*

### Poster Presentations:

Branded Beef - Superior product quality or credence attributes? - Susan Markus

Effect of long-term flax supplementation on performance and carcass characteristics of beef - Shannon Scott

\*\* NOTE \*\* CMSA/CMC members who wish to attend the VAM symposium may sign-up at the CMSA/CMC on-site registration for transportation from the Halifax Marriot to the Atlantica Hotel and return.

## Abstracts

Wednesday, May 4th - 14:15:00 - 14:30:00 (FPE-1)	Effect of time of cutting and maceration on forage composition, nutrient flow, microbial protein synthesis, and digestibility in dual-flow continuous culture
Wednesday, May 4th - 14:30:00 - 14:45:00 (FPE-1)	Bloat related foam stability from anthocyanidin-accumulating Lc-alfalfa and its relation to FTIR vibration spectroscopic features
Wednesday, May 4th - 14:45:00 - 15:00:00 (FPE-1)	Effect of varying concentrations of LM in corn or wheat based diets on hen egg yolk colour
Wednesday, May 4th - 15:00:00 - 15:15:00 (FPE-1)	Effect of Moderate Diet Restriction on Body Condition, Health, and Reproductive Longevity in Female Mink (Neovison vison)
Wednesday, May 4th - 15:15:00 - 15:30:00 (FPE-1)	Effect of wheat DDGS inclusion on grain-based feed digestible nutrient components and energy profiles
Wednesday, May 4th - 15:45:00 - 16:00:00 (FPE-1)	Initial study of Oasis® and lysozyme supplementation during long transport after hatching and lysozyme after placement on incidence of early mortality, development and growth performance of turkey poults
Wednesday, May 4th - 16:00:00 - 16:15:00 (FPE-1)	Hemorrhagic Enteritis in goats: possible role of mycotoxigenic fungi, mycotoxins and STEC infections in the disease complex
Wednesday, May 4th - 16:15:00 - 16:30:00 (FPE-1)	Nitrogen retention and balance in Lohmann LSL-Lite laying hens fed low protein diets with supplemented synthetic amino acids
Wednesday, May 4th - 16:30:00 - 16:45:00 (FPE-1)	The effects of consuming red clover pasture and beneficial fatty acid supplements on ram lamb growth performance.
Wednesday, May 4th - 16:45:00 - 17:00:00 (FPE-1)	Hemorrhagic diseases in ruminants: possible role for prebiotics and probiotics as disease management tools
Wednesday, May 4th - 14:15:00 - 14:30:00 (FPE-2)	DHA reduces triglycerides and stimulates fat metabolism in pigs.
Wednesday, May 4th - 14:30:00 - 14:45:00 (FPE-2)	Evaluation of the digestibility of three sweet potato (Ipomoea

batatas) by-products using broiler chickens

Wednesday, May 4th - 14:45:00 - 15:00:00 (FPE-2)	Molecular spectral features and protein metabolic characteristics of new co-products of bio-ethanol production
Wednesday, May 4th - 15:00:00 - 15:15:00 (FPE-2)	A method to compare the rate salmonella penetrates chicken eggshells
Wednesday, May 4th - 15:15:00 - 15:30:00 (FPE-2)	Effects of Tasco™ and Inulin on the growth performance of broiler chickens
Wednesday, May 4th - 15:45:00 - 16:00:00 (FPE-2)	Genome-wide selection in a simulated selected swine population
Wednesday, May 4th - 16:00:00 - 16:15:00 (FPE-2)	A mechanistic model of protein deposition and amino acid oxidation in response to amino acid imbalances and deficiencies in growing animals
Wednesday, May 4th - 16:15:00 - 16:30:00 (FPE-2)	Cortisol response to endotoxin-induced inflammatory stress is associated with aspects of the ovine immune system.
Wednesday, May 4th - 16:30:00 - 16:45:00 (FPE-2)	Effects of Sex and Dietary History on the Length of Telomeres - Does Obesity Accelerate Biological Aging in Mink (Neovison vison)?
Wednesday, May 4th - 16:45:00 - 17:00:00 (FPE-2)	Effects of applying a ferouyl esterase silage inoculant at ensiling on nutrient composition, in situ NDF disappearance and surface temperature of barley silage
Thursday - 10:00 AM - 10:45 AM (TDC-1)	Strategies to improve fertility in the lactating dairy cow
Thursday, May 5th - 13:00:00 - 13:15:00 (TDC-1)	Not set
Thursday, May 5th - 13:15:00 - 13:30:00 (TDC-1)	A ferulic acid esterase silage inoculant improves barley silage fermentation, aerobic stability and efficiency of feed use by growing feedlot cattle
Thursday, May 5th - 13:30:00 - 13:45:00 (TDC-1)	Effects of marine oil supplements on bioenergetic and milk production parameters in grazing or confined cows 90 days post-calving
Thursday, May 5th - 13:45:00 - 14:00:00 (TDC-1)	Accuracy and Precision of the NRC (2000) Beef Model for Predicting Net Energy of Maintenance and Gain Requirements of Cattle
Thursday, May 5th - 14:00:00 - 14:15:00 (TDC-1)	Jejunal Hemorrhage Syndrome in cattle: possible role of mycotoxins and STEC infections in the disease complex
Thursday, May 5th - 14:15:00 - 14:30:00 (TDC-1)	In situ characterization of rumen bacteria using a chaperonin-60 sequencing approach in dairy cows fed perennial ryegrass silage or pasture based- diet
Thursday, May 5th - 14:30:00 - 14:45:00 (TDC-1)	Single nucleotide polymorphisms (SNPs) in candidate genes are associated with digestive function in multi-breed beef cattle
Thursday, May 5th - 14:45:00 - 15:00:00 (TDC-1)	The effects of experimentally-induced E. coli clinical mastitis on standing and lying activity in dairy cows
Thursday, May 5th - 15:00:00 - 15:15:00 (TDC-1)	Production of dairy heifers from beef cattle recipients of Holstein embryos.

Thursday, May 5th - 15:30:00 - 15:45:00 (TDC-1)	Assessment of heat and methane production in beef cattle with different feed efficiency
Wednesday - 9:00 AM - 9:15 AM (FPE-P)	The use of reticulo-rumen temperature (Trr) monitoring in beef cows to forecast calving.
Thursday, May 5th - 16:00:00 - 16:15:00 (TDC-1)	The effect of late fall grazing Tall Fescue or Tall fescue and red clover pastures on winter calving beef cow and calf productivity and cow milk yield
Thursday, May 5th - 16:15:00 - 16:30:00 (TDC-1)	Effects of feeding a high fiber byproduct feedstuff on rumen fermentation and productivity of dairy cows in early lactation
Thursday, May 5th - 13:00:00 - 13:15:00 (VAM)	Understanding the formation of dark-cutting beef in Alberta
Thursday, May 5th - 13:15:00 - 13:30:00 (VAM)	Effect of long-term flax supplementation on the fatty acid profile and sensory characteristics of beef from heifers
Thursday, May 5th - 14:00:00 - 14:15:00 (VAM)	Sensory characterization of omega-3 enriched pork meat using free choice profiling following addition of sugars
Thursday, May 5th - 14:45:00 - 15:00:00 (VAM)	Improving oxidative stability of omega-3 enriched pork by addition of sugars
Thursday, May 5th - 15:30:00 - 15:45:00 (VAM)	Canadian consumers' response to innovations in meat packaging - evidence from Real Choice experiments
Thursday, May 5th - 16:15:00 - 16:30:00 (VAM)	Microbiological safety of high pressure treated poultry meat
Wednesday, May 4th - (FPE-Poster-1)	Prediction of lysine content and availability in corn distillers dried grains with solubles (DDGS) samples.
Wednesday, May 4th - (FPE-Poster-2)	Effect of different levels of canola meal and fat sources on performance and egg quality in laying hens
Wednesday, May 4th - (FPE-Poster-3)	Effect of incorporation of purple prairie clover ( <i>Petalostemon purpureum</i> ) into cool season grasses mixture on in vitro ruminal fermentation
Wednesday, May 4th - (FPE-Poster-4)	Development of a two-species cDNA microarray for transcriptional profiling of sow reproductive traits
Wednesday, May 4th - (FPE-Poster-5)	Protein and carbohydrate fractions and chemical profiles of triticale and triticale dried distillers grains with solubles
Wednesday, May 4th - (FPE-Poster-6)	Evaluation of whelks as an alternative source of calcium for laying hens
Wednesday, May 4th - (FPE-Poster-7)	Determination of the effects of crab meal fed to laying hens on egg yolk astaxanthin content and fatty acid profile
Wednesday, May 4th - (FPE-Poster-8)	Milk fat from cows with subacute ruminal acidosis increases fasting blood glucose and insulin, but does not impair insulin-stimulated glucose transport when fed to rodents.
Wednesday, May 4th - (FPE-Poster-9)	Aleutian mink disease virus infection causes hair depigmentation
Wednesday, May 4th - (FPE-Poster-10)	Effect of moderate maternal diet restriction on the viability and development of mink kits ( <i>Neovison vison</i> )

Wednesday, May 4th - (FPE-Poster-11)	Alfalfa at three stages of maturity harvested at sunset and sunrise: botanical traits, chemical composition and dry matter digestibility
Wednesday, May 4th - (FPE-Poster-12)	Growth and pigmentation in Arctic Charr ( <i>Salvelinas alpinus</i> ) fed diets with different lipid sources and astaxanthin
Wednesday, May 4th - (FPE-Poster-13)	The digestibility of nutrients in high protein corn by-products by Rainbow trout ( <i>Oncorhynchus mykiss</i> )
Wednesday, May 4th - (FPE-Poster-14)	Efficacy of prebiotics on growth performance in replacing antibiotics in weanling pigs
Wednesday, May 4th - (FPE-Poster-15)	Adaptation responses to an experimentally induced systemic acidosis in yearling wether lambs
Wednesday, May 4th - (FPE-Poster-16)	Estimating the dynamic requirements of lysine supporting maximal protein deposition in individually-fed growing-finishing pigs
Wednesday, May 4th - (FPE-Poster-17)	Response of growing-finishing pigs to increasing levels of dietary lysine: a meta-analysis study
Wednesday, May 4th - (FPE-Poster-18)	Free space utilization by sows in gestation pens equipped with walk-in/lock-in stalls
Wednesday, May 4th - (FPE-Poster-19)	Adipocyte Size and Hormone Sensitive Lipase Gene Expression in Mink ( <i>Neovison vison</i> ) with Fatty Liver Disease
Wednesday, May 4th - (FPE-Poster-20)	Growth performance and carcass composition of Rainbow trout ( <i>Oncorhynchus mykiss</i> ) fed practical diets containing graded levels of high fat residue Camelina meal
Wednesday, May 4th - (FPE-Poster-21)	Stockpiled grasses can provide quality winter pasture in Atlantic Canada
Wednesday, May 4th - (FPE-Poster-22)	Effects of Crina on fermentation and digestibility of high-grain diet in Rusitec
Wednesday, May 4th - (FPE-Poster-23)	Working together to improve the sustainability of livestock and cropping systems
Thursday, May 5th - (TDC-Poster-1)	The effect of subacute ruminal acidosis on milk fatty acid profile in dairy cattle
Thursday, May 5th - (TDC-Poster-2)	Fecal shedding of <i>Escherichia coli</i> of cattle grazing pastures with and without purple prairie clover ( <i>Petalostemon purpureum</i> )
Thursday, May 5th - (TDC-Poster-3)	Subacute ruminal acidosis (SARA) in dairy cows leads to increases in ruminal lipopolysaccharide (LPS), plasma LPS binding protein, and correlates with the rumen epithelial interleukin-6 (IL-6) response.
Thursday, May 5th - (TDC-Poster-4)	Effect of subacute ruminal acidosis adaptation and recovery on the density and diversity of rumen bacteria from non-lactating dairy cattle
Thursday, May 5th - (TDC-Poster-5)	Regulation of intake of febrile animals with subacute ruminal acidosis
Thursday, May 5th - (TDC-Poster-6)	Rumen epithelial adaptation to high-grain diets in lactating dairy cattle involves the coordinated expression of IGF binding proteins

and cholesterolgenic enzymes.

- Thursday, May 5th - (TDC-Poster-7) Decreasing the solids-non-fat:fat ratio of milk with dietary feather meal in dairy cows
- Thursday, May 5th - (TDC-Poster-8) Meta-analysis of the effects of dietary copper, zinc and iron on serum and liver copper and growth performance in growing-finishing cattle
- Thursday, May 5th - (TDC-Poster-9) Predicting internal trailer THI based on space allowance and ambient THI during transport of fall-weaned beef calves
- Thursday, May 5th - (TDC-Poster-10) Evaluation of batch effect of the co-products from a newly developed bioethanol plant on metabolic characteristic of protein in dairy cattle with DVE 2007 Model
- Thursday, May 5th - (TDC-Poster-11) Alfalfa at three stages of maturity harvested at sunset and sunrise: effects on dairy cattle performance
- Thursday, May 5th - (TDC-Poster-12) Influence of feeding increasing levels of dry corn distillers grains plus solubles in whole corn grain-based finishing diets on total tract digestion, nutrient balance and excretion in steers.
- Thursday, May 5th - (TDC-Poster-13) Assessing internal body fat using real-time ultrasound in mature beef cows.
- Thursday, May 5th - (TDC-Poster-14) Reproductive parameters in postpartum dairy cows fed a ration supplemented with wheat dried distiller's grains with solubles (wDDGS)
- Thursday, May 5th - (TDC-Poster-15) Prevalence of lameness within hospital and chronic pens of 3 Southern Alberta feedlots during summer months
- Thursday, May 5th - (TDC-Poster-16) Bioperformance evaluation of various summer pasture and winter feeding strategies for cow-calf production
- Thursday, May 5th - (TDC-Poster-17) The relationship of rumen acidosis resistance to rumen VFA profile, butyrate metabolism, and plasma metabolites in steers fed a high grain diet
- Thursday, May 5th - (TDC-Poster-18) Effect of a single intramuscular injection of ketoprofen on physiological and behavioural indicators of pain in beef calves following surgical or band castration
- Thursday, May 5th - (TDC-Poster-19) Effect of multiple intramuscular injections of ketoprofen on physiological and behavioural indicators of pain in beef calves following surgical or band castration
- Thursday, May 5th - (TDC-Poster-20) Hepatic transcript abundance to predict future lactation performance in dairy heifers using Partial Least Squares regression analysis
- Thursday, May 5th - (TDC-Poster-21) Evaluation of biological effects of phytochemicals in lactating Holstein dairy cows
- Thursday, May 5th - (TDC-Poster-22) The effect of transport distance on cattle liner microclimate, live weight loss and carcass quality of finished heifers during summer transport
- Thursday, May 5th - (TDC-Poster-23) Effect of grain- and alfalfa pellet-induced sub-acute rumen acidosis (SARA) challenges on oxidative stress in dairy cows

Thursday, May 5th - (TDC-Poster-24)	Effect of long-term flax supplementation on performance and carcass characteristics of beef heifers.
Thursday, May 5th - (TDC-Poster-25)	Milling process did not affect amino acid (AA) profiles of ruminal undegradable protein (RUP) from corn distiller grain
Thursday, May 5th - (TDC-Poster-26)	Effects of bioethanol processing on rumen degradation kinetics, intestinal protein digestibility and predicted truly absorbed intestinal protein supply of original cereal grains and new co-products of bio-ethanol production
Thursday, May 5th - (TDC-Poster-27)	Hepatic histology patterns are related to feed efficiency in the bovine
Thursday, May 5th - (TDC-Poster-28)	Evaluation of the Afimilk Pedometer Plus tag system for predicting estrus in dairy cows housed in tie-stalls
Thursday, May 5th - (TDC-Poster-29)	Evaluation of the Afimilk Pedometer Plus Tag system for predicting parturition in dairy cows housed in tie-stalls
Thursday, May 5th - (TDC-Poster-30)	Translational control of bovine Alpha s2- and Beta-casein mRNA by untranslated regions
Thursday, May 5th - (TDC-Poster-31)	Accuracy and precision of the NRC (2000) beef model for predicting cattle performance under western Canadian environmental conditions
Thursday, May 5th - (TDC-Poster-32)	Characterization of wheat, wheat-corn, and corn distillers' dried grain with solubles (DDGS) and incorporation into dairy lactation diets
Thursday - 3:45 PM - 4:00 PM (TDC-1)	Effect of Different Batches of Original FeedStock and Wheat Dried Distiller's Grain with Solubles from a Newly Developed Bioethanol Plant on Rumen Degradation Characteristics of Various Nutrients
Thursday, May 5th - (VAM-Poster-1)	Branded Beef - Superior product quality or credence attributes?