

# CURRICULUM VITAE

## University of Idaho

**NAME:** Dalton, Joseph C.

**DATE:** December 12, 2017

**RANK OR TITLE:** Professor, Extension Dairy Specialist

**DEPARTMENT:** Animal and Veterinary Science

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**DATE OF FIRST EMPLOYMENT AT UI:** August 21, 2000

**DATE OF TENURE:** July 1, 2006

**DATE OF PRESENT RANK OR TITLE:** July 1, 2013

### EDUCATION BEYOND HIGH SCHOOL:

Doctor of Philosophy, Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, Virginia, May 1999, Animal Science, Reproductive Physiology. Dissertation Title: Factors important to the efficiency of artificial insemination in single-ovulating and superovulated cattle. Advisor: Dr. R.G. Saacke.

Master of Science, Utah State University, Logan, Utah, December 1990, Dairy Science, Reproductive Physiology. Thesis Title: Effect of methionyl bovine somatotropin administration on luteinizing hormone in dairy cattle. Advisor: Dr. D.P. Marcinkowski.

Bachelor of Science, California Polytechnic State University (Cal Poly), San Luis Obispo, California, June 1986, Dairy Science, Dairy Husbandry.

### EXPERIENCE:

#### Teaching, Extension and Research Appointments:

University of Idaho, Professor and Extension Dairy Specialist, 70% Extension, 30% Research appointment, Animal and Veterinary Science Department, 2013 -

University of Idaho, Associate Professor and Extension Dairy Specialist, 70% Extension, 30% Research appointment, Animal and Veterinary Science Department, 2006 - 2013

University of Idaho, Assistant Professor and Extension Dairy Specialist, 70% Extension, 30% Research appointment, Animal and Veterinary Science Department, 2000 - 2006

University of Minnesota, Crookston, Assistant Professor, 100% Teaching appointment, Animal Industries Management Program, 1999-2000

Virginia Tech, Graduate Assistant (Laboratory Instructor), Department of Dairy Science, 1991-1999

Utah State University, Graduate Assistant (Laboratory Instructor), Department of Animal, Dairy, and Veterinary Sciences, 1988-1991

#### Non-Academic Employment:

Management Trainee/Supervisor: Carnation Dairies Los Angeles (A division of Nestlé Co.), 1986-1987

#### Consulting:

Select Sires, Plain City, Ohio, 2011, 2014

ABS Global, Hereford, Texas, 2008

Rancho Productor de Leche Zaragoza Hermanos, Delicias, Chihuahua, México, 2007

ABS Global, El Centro, California, 2007

Partners of the Americas/U.S. Agency for International Development "Farmer to Farmer" program, Quito, Tulcan, and Cuenca, Ecuador, 2001

**TEACHING ACCOMPLISHMENTS:****Courses Taught:**

## University of Idaho:

Guest lectures for the Washington - Idaho Veterinary Education Program, Food Animal Clinical Block (VM 635) 2000-07, Dairy Production Medicine (VM 633) 2004-15, Beef Cow-Calf (VM 633) 2007-2012, and Advanced Techniques in Reproduction (VM 633P) 2007-2012

## University of Minnesota:

Animal Health and Disease (AnSc 3503), 2000  
 Animal Production Techniques (Dairy/Beef) (AnSc 1203), 2000  
 Dairy Management Practicum (AnSc 3205), 2000  
 Reproduction, AI, and Lactation (AnSc 3304), 2000  
 Animal Systems Management (AnSc 4204), 2000  
 Agricultural Products and Processing (GnAg 3203), 2000  
 Artificial Insemination (Continuing Education and Outreach), 2000  
 Feeds and Feeding (AnSc 2104), 1999  
 Beef Production (AnSc 3303), 1999  
 Dairy Production (AnSc 3204), 1999

## Virginia Tech:

Physiology of Reproduction laboratory (ALS 4304), 1991-97

## Utah State University:

Applied Reproductive Physiology of Dairy Cattle laboratory (ADVS 4710), 1990-91  
 Anatomy and Physiology of Farm Animals laboratory (ADVS 2200), 1990  
 Artificial Insemination laboratory (ADVS 1010), 1988

**Students Advised:**

## University of Idaho:

## Advisor:

Saulo Menegatti Zoca, M.S. (Completion date: May 2018)  
 Courtney Claypool, M.S. (Completion date: May 2015)  
 Carrie Johnson, M.S. (Completion date: December 2012)  
 Chloé Autran, M.S. (Completion date: December 2010)

## Graduate Committee Member:

Jennifer Spencer, Ph.D. (Completion date: May 2018)  
 Jennifer Spencer, M.S. (Completion date: November 2014)  
 Alan Wilmore, M.S. (Completion date: May 2014)  
 Brent Hatch, M.S. (Completion date: August 2013)  
 Nikola Dalton, M.S. (Completion date: May 2012)  
 Jill Grimberg, M.S. (Completion date: August 2006)  
 Jeremy Howard, M.S. (Completion date: August 2005)  
 Filiberto Frago, M.S. (Completion date: February 2004)  
 Rabiou Manzo, M.S. (Completion date: October 2003)  
 Crystal Sellars, M.S. (Completion date: January 2003)

**Visiting Scholars Advised:**

## University of Idaho:

João Pedro de Albuquerque, UNESP-Botucatu, São Paulo, Brazil  
 Saulo Menegatti Zoca, UNESP-Botucatu, São Paulo, Brazil

**SCHOLARSHIP ACCOMPLISHMENTS:****Book Chapters, Refereed:**

**Dalton, J.C.**, J.M. DeJarnette, R.G. Saacke, and R.P. Amann. 2017. The male component of dairy herd fertility. In: Large Dairy Herd Management, third edition, D.K. Beede (Ed.), American Dairy Science Association, Champaign, IL, pp. 565-578.

**Refereed Publications:**

Autran, C.A., W. Price, **J.C. Dalton**, and A. Ahmadzadeh. Effect of prostaglandin F<sub>2α</sub> on growth of *Streptococcus uberis* associated with bovine mastitis. 2017. *J. Dairy and Vet Sci.* 3(4): 555619. doi:10.19080/JDVS.2017.03.555619

Lopes, Jr., G., C.R. Johnson, L.G.D. Mendonca, P.B. Silva, J.G.N. Moraes, A. Ahmadzadeh, **J.C. Dalton**, and R.C. Chebel. 2013. Evaluation of reproductive and economic outcomes of dairy heifers inseminated at induced estrus or at fixed time after a 5-day or 7-day progesterone insert-based ovulation synchronization protocol. *J. Dairy Sci.* 96:1612–1622.

**Dalton, J.C.**, J.Q. Robinson, and J.M. DeJarnette. 2013. A collaborative bovine artificial insemination short course for students attending a Caribbean veterinary school. *Journal of Extension* (On-line), Art. IIAW9. Available at: <http://www.joe.org/joe/2013february/iw9.php>

Autran, C.A., B. Shafii, **J.C. Dalton**, M.A. McGuire, and A. Ahmadzadeh. 2013. Effect of prostaglandin F<sub>2α</sub> on growth of *Staphylococcus aureus* associated with bovine mastitis. *J. Veterinar. Sci. Technol.* 4: 129. doi:10.4172/2157-7579.1000129

Johnson, C.R., M.W. Ayers, A. Ahmadzadeh, B. Shafii, S. Etter, R.C. Chebel, and **J.C. Dalton**. 2012. *Short Communication*: Characterization of early postpartum estrous behavior and ovulation in lactating dairy cows using radiotelemetry. *J. Dairy Sci.* 95:5085-5088.

**Dalton, J.C.**, L. Deragon, J.L.M. Vasconcelos, C.N. Lopes, R.F.G. Peres, and A. Ahmadzadeh. 2012. Fertility-associated antigen on Nelore bull sperm and reproductive outcomes following first-service fixed-time AI of Nelore cows and heifers. *Theriogenology.* 77:389–394.

Howard, J.M., D.G. Falk, K.G. Carnahan, **J.C. Dalton**, R.C. Chebel, and A. Ahmadzadeh. 2009. The use of GnRH in a progesterone-based timed artificial insemination protocol in replacement beef heifers. *Prof. An. Sci.* 25:757-761.

Ahmadzadeh, A., F. Frago, B. Shafii, **J.C. Dalton**, W.J. Price, and M.A. McGuire. 2009. Effect of clinical mastitis and other diseases on reproductive performance of Holstein cows. *An. Repro. Sci.* 112:3-4:273-282.

Stevenson, J.L., **J.C. Dalton**, J.E.P. Santos, R. Sartori, A. Ahmadzadeh, and R.C. Chebel. 2008. Effect of synchronization protocols on follicular development and estradiol and progesterone concentrations of dairy heifers. *J. Dairy Sci.* 91: 3045-3056.

Stevenson, J.L., J.A. Rodrigues, F.A. Braga, S. Bitente, **J.C. Dalton**, J.E.P. Santos, and R.C. Chebel. 2008. Effect of reproductive protocols and reproductive tract score on reproductive performance of dairy heifers and economic outcome of breeding programs. *J. Dairy Sci.* 91:3424–3438.

Ahmadzadeh, A., R. Manzo, C.B. Sellars, and **J.C. Dalton**. 2007. The efficacy of a reduced dose of gonadotropin releasing hormone on the time and incidence of ovulation in Holstein cows. *J. Anim. Vet. Adv.* 6(11):1328-1332.

**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):****Refereed Publications (cont'd):**

- Howard, J.M., R. Manzo, F. Frago, D.G. Falk, J.B. Glaze, Jr., **J.C. Dalton**, and A. Ahmadzadeh. 2007. Estradiol cypionate did not affect pregnancy rates of beef cattle synchronized with a modified timed artificial insemination protocol. *Prof. An. Sci.* 23:509-512.
- Chebel, R.C., F.A. Braga, and **J.C. Dalton**. 2007. Factors affecting reproductive performance of Holstein heifers. *An. Repr. Sci.* 101:208-224.
- Stevenson, J.L., **J.C. Dalton**, T.L. Ott, K. Racicot, and R.C. Chebel. 2007. Correlation between reproductive status and steady-state mRNA levels of the Myxovirus resistance gene, MX2, in peripheral blood leukocytes of dairy heifers. *J. Anim. Sci.* 85:2163-2172.
- Frago, F., R. Manzo, **J.C. Dalton**, M.A. McGuire, and A. Ahmadzadeh. 2007. Naloxone increases serum calcium concentrations after parturition in multiparous Holstein cows. *Prof. An. Sci.* 23:70-72.
- Howard, J.M., R. Manzo, **J.C. Dalton**, F. Frago, and A. Ahmadzadeh. 2006. Conception rates and serum progesterone concentration in dairy cattle administered gonadotropin releasing hormone five days after artificial insemination. *An. Repr. Sci.* 95:3-4:224-233.
- Dalton, J.C.**, and K.S. Jensen. 2006. A Spanish language milker's school for Idaho dairy employees. *Journal of Extension* (On-line), 44:4 Art. 4IAW1. Available at: <http://www.joe.org/joe/2006august/iw1.shtml>
- Sellars, C.B., **J.C. Dalton**, R. Manzo, J. Day, and A. Ahmadzadeh. 2006. Effect of incorporation of a low dose of estradiol cypionate into a timed artificial insemination protocol on time of ovulation, ovulation rate and conception rates in dairy cows. *J. Dairy Sci.* 89:620-626.
- Dalton, J.C.**, R. Manzo, A. Ahmadzadeh, B. Shafii, W.J. Price, and J.M. DeJarnette. 2005. *Short Communication*: Conception rates following detection of estrus and timed AI in dairy cows synchronized using GnRH and PGF<sub>2α</sub>. *J. Dairy Sci.* 88:4313-4316.
- Dalton, J.C.**, A. Ahmadzadeh, B. Shafii, W.J. Price, and J.M. DeJarnette. 2004. Effect of thawing multiple 0.5-mL semen straws and sequential insemination number on conception rates in dairy cattle. *J. Dairy Sci.* 87:972-975.
- Moore, D.A., J.H. Kirk, D.J. Klingborg, F. Garry, W. Wailes, **J.C. Dalton**, J. Busboom, R.W. Sams, M. Poe, M. Payne, J. Marchello, M. Looper, D. Falk, and T. Wright. 2004. Dairy beef: Maximizing quality and profits-A consistent food safety message. *J. Dairy Sci.* 87:183-190.
- Dalton, J.C.**, S. Nadir, J.H. Bame, M. Noftsinger, R.L. Nebel, and R.G. Saacke. 2001. Effect of time of insemination on number of accessory sperm, fertilization rate, and embryo quality in nonlactating dairy cattle. *J. Dairy Sci.* 84:2413-2418.
- Dalton, J.C.**, S. Nadir, J.H. Bame, M. Noftsinger, and R.G. Saacke. 2000. The effect of time of artificial insemination on fertilization status and embryo quality in superovulated cows. *J. Anim. Sci.* 78:2081-2085.
- Dalton, J.C.**, S. Nadir, J. Bame, M. Noftsinger, and R.G. Saacke. 2000. Towards the enhancement of pregnancy rate: The effect of insemination time on sperm transport, fertilization rate and embryo quality in dairy cattle. *Occ. Publ. Br. Soc. Anim. Sci.* 26:161-174.
- Saacke, R.G., **J.C. Dalton**, S. Nadir, R.L. Nebel, and J.H. Bame. 2000. Relationship of seminal traits and insemination time to fertilization rate and embryo quality. *An. Repr. Sci.* 60-61:663-677.

**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):****Refereed Publications (cont'd):**

Bame, J.H., **J.C. Dalton**, S.D. Degelos, J.L.H. Ireland, F. Jimenez-Krassel, R.G. Saacke, and J.J. Ireland. 1999. Effect of long-term immunization against inhibin on sperm output in bulls. *Biol. Reprod.* 60:1360-1366.

**Dalton, J.C.**, S. Nadir, J.H. Bame, and R.G. Saacke. 1998. Effect of a deep uterine insemination on spermatozoal accessibility to the ovum in cattle. *Theriogenology.* 51:5:883-890.

**Dalton, J.C.**, and D.P. Marcinkowski. 1994. Effect of Sometribove administration on LH concentration in dairy cattle. *Theriogenology.* 41:2:437-445.

Bunch, T.D., R.J. Callan, A. Maciulis, **J.C. Dalton**, M.R. Figueroa, R. Kunzler, and R.E. Olsen. 1991. True hermaphroditism in a wild sheep: A clinical report. *Theriogenology.* 36:2:185-189.

**Refereed Publications In Press:****Refereed Publications Submitted:**

Keuter, E.M., J.N. Kiser, C.M. Seabury, M. Neupane, J.G. N. Moraes, **J. Dalton**, G.W. Burns, T.E. Spencer, and H.L. Neibergs. 2017. Identification of loci associated with heifer conception rate in Holstein heifers. *Genetics Sel. Evol.*

Spencer, J.A., K. Carnahan, B. Shafii, W.J. Price, **J. Dalton**, and A. Ahmadzadeh. 2017. The effect of administering gonadotropin-releasing hormone at the initiation in a 5-d CIDR-Cosynch resynchronization protocol for lactating dairy cows. *J. Dairy Sci.*

Davenport, K.M., J.A. Spencer, J.J. Peak, **J.C. Dalton**, and B.M. Murdoch. 2017. Genomic testing of female Holsteins: A resource for selection and improvement. *Prof. Anim. Sci.*

**Refereed Publications In Preparation:**

Claypool, C.K., J.A. Spencer, S. Menegatti Zoca, B. Shafii, W.J. Price, A. Ahmadzadeh, N.R. Rimbey, and **J.C. Dalton**. 2017. Reproduction and economic outcomes in dairy heifers following a 14-d progesterone insert presynchronization protocol. *J. Dairy Sci.*

**Peer-reviewed Publications:**

**Dalton, J.C.** 2016. Maneje el semen sexado con cuidado para maximizar le fertilidad de las novillas. DAIReXNET. Available at: <http://articles.extension.org/pages/73596/maneje-el-semen-sexado-con-cuidado-para-maximar-le-fertilidad-de-las-novillas>

Menegatti Zoca, S., B. Glaze, D.A. Moore, **J.C. Dalton**, and M. Chahine. 2016. Genética y Genómica: Una Introducción. DAIReXNET. Available at: <http://articles.extension.org/pages/73455/genetica-y-genmica:-una-introduccion>

Menegatti Zoca, S., B. Glaze, D.A. Moore and **J.C. Dalton**. 2015. Genetics and Genomics: An Introduction. DAIReXNET. Available at: <http://www.extension.org/pages/73178/genetics-and-genomics:-an-introduction#.VedPZpd4Vrs>

**Dalton, J.C.** 2013. Handle sexed semen with care to maximize heifer fertility. DAIReXNET. Available at: <http://www.extension.org/pages/67413/handle-sexed-semen-with-care-to-maximize-heifer-fertility>

**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):****Peer-reviewed Publications (cont'd):**

- Dalton, J.C.** 2012. Strategies for success in heat detection and artificial insemination. DAIRExNET. Available at: <http://www.extension.org/pages/65460/strategies-for-success-in-heat-detection-and-artificial-insemination>
- Autran, C.A., A. Ahmadzadeh, and **J.C. Dalton**. 2011. Does pure dinoprost tromethamine (prostaglandin F<sub>2α</sub>) inhibit growth *in vitro* of *Staphylococcus aureus* associated with bovine mastitis? In: *Proc. West. Sec. Am. Soc. Anim. Sci.*, Miles City, MT, *J. Anim. Sci.* 62:257-260.
- Johnson, C.R., A. Ahmadzadeh, K.S. Jensen, S. Etter, R. Wilson, N. Dalton, and **J.C. Dalton**. 2008. Effect of duration of intravaginal progesterone insert (CIDR) treatment on pregnancy rate per AI in dairy heifers using a timed-AI protocol. In: *Proc. West. Sec. Am. Soc. Anim. Sci.*, Laramie, WY, *J. Anim. Sci.* 59:33-36.
- Dalton, J.C.**, D.A. Moore, and M.L. Poe. 2007. Promoting a consistent food safety and quality message to the dairy industry: An updated resource for extension faculty, veterinarians, and dairy advisors. *Journal of Extension* (On-line), 45:1 Art. ITOT4. Available at: <http://www.joe.org/joe/2007february/tt4.shtml>
- Manzo, R., A. Ahmadzadeh, **J.C. Dalton**, F. Frago, and J.M. Howard. 2004. Effect of exogenous gonadotropin releasing hormone five days after artificial insemination on ovarian structures and serum progesterone in dairy cows. In: *Proc. West. Sec. Am. Soc. Anim. Sci.*, Corvallis, OR, *J. Anim. Sci.* 55:295-298.

**Peer-reviewed Publications in Press:****Abstracts:**

- Dalton, J.**, G.W. Burns, T.E. Spencer, and H.L. Neibergs. 2017. Identification of gene and gene sets enriched for heifer conception rate in US Holstein heifers. *J. Anim. Sci.* 95:E. Suppl. 2:12.
- Menegatti Zoca, S., B. Shafii, W.J. Price, M.D. Utt, L. Cruppe, J.M. DeJarnette, L.D. Peters, J.L.M. Vasconcelos, and **J.C. Dalton**. 2017. Effect of sperm dose on pregnancy per timed AI in Brazilian beef cattle. *J. Anim. Sci.* 95:E. Suppl. 4:76.
- Keuter, E.M., M. Neupane, J.N. Kiser, J.G.N. Moraes, **J. Dalton**, G.W. Burns, T.E. Spencer, C.M. Seabury, and H.L. Neibergs. 2017. Identification of canonical pathways associated with conception rate in US Holstein heifers. In: *Proc. 50<sup>th</sup> Annual Meeting Soc. Study Reprod.*, Washington, D.C., pp. 207-208.
- Spencer, J., K.G. Carnahan, B. Shafii, **J. Dalton**, and A. Ahmadzadeh. 2016. The effects of aspirin on pregnancy rates and pregnancy specific protein B in lactating dairy cows during the summer. *J. Dairy Sci.* 99:E. Suppl. 1: 533.
- Spencer, T.E., H.L. Neibergs, P.J. Hansen, J.B. Cole, **J.C. Dalton**, D.A. Moore, M. Chahine, and A. De Vries. 2016. Improving fertility of dairy cattle using translational genomics. *J. Anim. Sci.* 94:E. Suppl. 5: 325.
- Keuter, E.M., C.M. Seabury, M. Neupane, J.N. Kiser, J.G.N. Moraes, **J. Dalton**, G.W. Burns, T.E. Spencer, and H.L. Neibergs. 2016. Identification of loci associated with fertility in US Holstein heifers. *J. Anim. Sci.* 99:E. Suppl. 1: 351.
- Claypool, C., J. Spencer, S. Menegatti Zoca, B. Shafii, W. Price, A. Ahmadzadeh, N. Rimbey, and **J.C. Dalton**. 2016. The reproductive and economic benefits of presynchronization of Holstein dairy heifers with a 14-day CIDR protocol. *Int'l Cong. Anim. Reprod.*, Tours, France, pp. 492-493.

**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):****Abstracts (cont'd):**

- Hale, A., A. Ahmadzadeh, B. Shafii, and **J.C. Dalton**. 2016. The effect of the liquid nitrogen level on the temperature in a semen storage tank. *J. Dairy Sci.* 99:E-Suppl. 1: 23.
- Claypool, C.K., J. Spencer, S. Menegatti Zoca, B. Shafii, B. Price, A. Ahmadzadeh, N. Rimbey, and **J.C. Dalton**. 2015. Reproductive outcomes of dairy heifers following pre-synchronization with a 14 d CIDR and prostaglandin F<sub>2α</sub>. *J. Dairy Sci.* 98:E. Suppl. 2: 874.
- Claypool, C.K., J. Spencer, S. Menegatti Zoca, B. Shafii, B. Price, A. Ahmadzadeh, N. Rimbey, and **J.C. Dalton**. 2015. Distribution of detected estrus following 14 day CIDR and prostaglandin F<sub>2α</sub> treatment as a pre-synchronization strategy in dairy heifers. *J. Dairy Sci.* 98:E. Suppl. 2: 115.
- Spencer, J., K.G. Carnahan, B. Shafii, C. Claypool, **J.C. Dalton**, and A. Ahmadzadeh. 2015. The use of a modified 5-day CIDR-Cosynch protocol for resynchronization to the second AI in lactating dairy cows. *J. Dairy Sci.* 98:E. Suppl. 2: 93.
- Moraes, J., **J.C. Dalton**, T.E. Spencer, J.N. Kiser, G.W. Burns, A. Wojtowicz, M. Neupane, and H.L. Neibergs. 2015. Identification of loci associated with fertility in Holstein heifers. *J. Anim. Sci.* 93:E. Suppl. s3:650
- Spencer, T.E., T.W. Geary, P.J. Hansen, H. Neibergs, **J.C. Dalton** and J.B. Cole. 2014. Systems biology approaches to understanding conceptus elongation and early pregnancy loss. In: *Proc. 47th Annual Meeting Soc. Study Reprod.*, Grand Rapids, MI.
- Dalton, J.C.**, D.A. Moore, T. Spencer, H. Neibergs, A. DeVries, P. Hansen, and J. Cole. 2014. Survey of genomic management practices of United States' dairy producers. In: *Proc. New Science, New Practices International Cow Fertility Conference*, Westport, Ireland, *Cambridge University Press*, Volume 5, Part 2, p. 260.
- Dalton, J.C.**, J.Q. Robinson, and J.M. DeJarnette. 2012. A collaborative bovine artificial insemination course for students attending a Caribbean veterinary school. *J. Dairy Sci.* 95: E-Suppl. 2:280.
- Ahmadzadeh, A., J.A. Spencer, B. Shafii, **J.C. Dalton**, C. Johnson, K.G. Carnahan, and S. Shields. 2012. Investigation of the relationship between resumption of ovarian cyclicity and plasma nutritional markers in lactating dairy cows. *J. Dairy Sci.* 95:E-Suppl. 2:78.
- Autran, C.A., A. Ahmadzadeh, and **J.C. Dalton**. 2011. Does pure dinoprost tromethamine (prostaglandin F<sub>2α</sub>) inhibit growth *in vitro* of *Staphylococcus aureus* associated with bovine mastitis? *J. Anim. Sci.* 89: E-Suppl. 2:198-199.
- Dalton, J.C.**, L. Deragon, J.L.M. Vasconcelos, A. Ahmadzadeh, and R.F.G. Peres. 2011. Influence of sperm fertility-associated antigen status on nulliparous Nelore heifer fertility at first-service timed AI. *J. Dairy Sci.* 94: E-Suppl. 1:592-593.
- Autran, C.A., A. Ahmadzadeh, B. Shafii, M.A. McGuire, and **J.C. Dalton**. 2011. Effect of prostaglandin F<sub>2α</sub> on growth of *Escherichia coli* and *Streptococcus uberis* associated with bovine mastitis. *J. Dairy Sci.* 94: E-Suppl. 1:347-348.
- Moeller, L.M., N.A. Michael, **J.C. Dalton**, and G.C. Lamb. 2010. Assessment of reproductive outcomes in United States Holstein dairies by geographic region. In: *Proc. Amer. Assoc. Bov. Pract. Ann. Conf.*, Albuquerque, NM.
- Dalton, J.C.**, K.S. Jensen, R. Manzo, and L. Whiteford. 2010. A milker's school for international refugees resettled in Idaho. *J. Dairy Sci.* 93: E-Suppl. 1:612-613.

**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):****Abstracts (cont'd):**

- Moeller, L.M., N.A. Michael, **J.C. Dalton**, and G.C. Lamb. 2010. Evaluating reproductive outcomes in United States Holstein dairies. *J. Dairy Sci.* 93: E-Suppl. 1:408.
- Ahmadzadeh, A., S. Read, K.G. Carnahan, and **J.C. Dalton**. 2010. Effect of flunixin meglumine on prostaglandin metabolites and progesterone in lactating dairy cows. *J. Dairy Sci.* 93: E.-Suppl. 1:221.
- Autran, C.A., A. Ahmadzadeh, B. Shafii, M.A. McGuire, and **J.C. Dalton**. 2010. Effect of prostaglandin F<sub>2α</sub> on growth of *Staphylococcus aureus* associated with bovine mastitis. *J. Dairy Sci.* 93: E.-Suppl. 1:486.
- Dalton, J.C.**, K.S. Jensen, M. Chahine, and M. de Haro Marti. 2009. A Spanish language artificial insemination school for Idaho dairy employees. *J. Dairy Sci.* 92: E-Suppl.1:415.
- Dalton, J.C.**, L. Deragon, J.L.M. Vasconcelos, and A. Ahmadzadeh. 2009. Does fertility-associated antigen on sperm collected from Nelore (*Bos indicus*) bulls affect fertility at first-service timed AI? *J. Dairy Sci.* 92: E-Suppl.1:582.
- Dalton, J.C.**, L. Deragon, and J.L.M. Vasconcelos. 2009. What percentage of Nelore (*Bos indicus*) bulls exhibit fertility-associated antigen on sperm membranes? *J. Dairy Sci.* 92: E-Suppl.1:80.
- Lopes, Jr., G., L.G.D. Mendonça, R.C. Chebel, **J.C. Dalton**, and A. Ahmadzadeh. 2009. Effect of duration of CIDR treatment on reproductive performance of dairy heifers using a timed-AI protocol. *J. Dairy Sci.* 92: E-Suppl. 1:263.
- Johnson, C.R., A. Ahmadzadeh, K.S. Jensen, S. Etter, R. Wilson, N. Dalton, and **J.C. Dalton**. 2008. Effect of duration of intravaginal progesterone insert (CIDR) treatment on pregnancy rate per AI in dairy heifers using a timed-AI protocol. *J. Anim. Sci.* 86: E-Suppl. 3:130.
- Johnson, C.R., M.W. Ayers, A. Ahmadzadeh, S. Etter, R.C. Chebel, and **J.C. Dalton**. 2008. Characterization of postpartum estrous behavior in lactating cows using radiotelemetry in a large dairy. *J. Dairy. Sci.* 91: E-Suppl. 1:258.
- Dalton, J.C.** 2007. Job satisfaction and interest in testing more cows: A survey of DHIA supervisors. *J. Dairy Sci.* 90: (Suppl. 1):27.
- Dalton, J.C.**, N. Rimbey, B. Shafii, W.J. Price, M.A. McGuire, D. Costesso, and J. Stewart. 2006. Effect of feeding wet pressed beet pulp on milk yield of dairy cows. *J. Dairy Sci.* 89: (Suppl. 1):83.
- Stevenson, J.L., R.C. Chebel, **J.C. Dalton**, T.L. Ott, C. Gifford, and K. Racicot. 2006. Evaluation of an early marker of failed pregnancy: Changes in expression of Mx2 mRNA in peripheral blood mononuclear cells in dairy heifers of different reproductive statuses. *J. Dairy Sci.* 89: (Suppl. 1):353.
- Stevenson, J.L., R.C. Chebel, **J.C. Dalton**, J.E.P. Santos, R. Sartori, and A. Ahmadzadeh. 2006. Effect of synchronization protocols on follicular development of dairy heifers. *J. Dairy Sci.* 89: (Suppl. 1):150.
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**Proceedings (Invited Papers):**

**Dalton, J.C.** 2017. New reproductive strategies and economic outcomes for dairy heifers. In: *Proc. Dairy Calf and Heifer Association Annual Conference*, Madison, WI, pp. 59-64.

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**Dalton, J.C.**, D.A. Moore, T.E. Spencer, P.J. Hansen, J.B. Cole, and H. Neibergs. 2016. Genetics, genomics, and fertility. In: *Proc. Society for Theriogenology Annual Meeting*, Asheville, NC, *Clinical Theriogenology* 8:3: 165.

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**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):****Proceedings (Invited Papers) (cont'd):**

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- Dalton, J.C.**, S. Nadir, M. Noftsinger, and R.G. Saacke. 2010. Insemination related factors affecting fertilization in estrous-synchronized cattle. In: *Proc. Applied Reproductive Strategies in Beef Cattle*, San Antonio, TX, pp. 193-205.
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**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):****Proceedings (Invited Papers) (cont'd):**

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- Nebel, R.L., B.G. Dransfield, **J.C. Dalton**, J.H. Bame, and R.G. Saacke. 2000. Timing of AI- Have we been wrong all these years? In: *WCDS Advances in Dairy Technology*. 12:195-209.

**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):****Proceedings (Invited Papers) (cont'd):**

- Nebel, R.L., **J.C. Dalton**, and R.G. Saacke. 2000. Time of insemination in single-ovulating and superovulated cattle identified in estrus by HeatWatch. In: *Proc. XI Congreso Nacional*, Santiago, Chile.
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- Nadir, S., **J.C. Dalton**, J. Bame, S. Pandolfi, and R.G. Saacke. 1996. Seminal plasma: How does it aid sperm function in cattle? In: *Proc. Nat'l Assoc. Anim. Breeders 16<sup>th</sup> Tech. Conf. on Artif. Insem. and Reprod.*, Columbia, MO, pp. 65-70.
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**Proceedings (Extension and Outreach):**

- B. Brown, **J. Dalton**, M. Chahine, B. Hazen, S. Jensen, and S. Etter. 2012. Triticale boot-stage forage K, Mg, Ca, S, and micronutrient content. In: *Proc. Idaho Nutrient Management Conference*, Jerome, ID, pp. 43-47.
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- Saacke, R.G., **J.C. Dalton**, S. Nadir, J. Bame, and R.L. Nebel. 1998. The bull's contribution. In: *Proc. Embryo Transfer and other Enhanced Reproductive Technologies in Food Animals*, Va.-Md. Reg. College of Vet. Med. Food Animal Practitioner's Club Symposium, Blacksburg, VA, pp. 73-86.
- Dalton, J.C.** 1995. Effects of bST on reproductive performance. In: *Proc. Dairy Herd Reproductive Management Cow College*, Blacksburg, VA.
- Dalton, J.C.** 1994. Sex-separated sperm. In: *Proc. Genetics and Reproductive Management Cow College*, Blacksburg, VA, pp. 46-47.

**Presentations:**

- University of Idaho: (2017)
- “Dairy heifer reproductive strategies and genomics.” Parnell Pharmaceuticals Producer and Veterinarian Meeting, Caldwell, ID, October, 2017
  - “University of Idaho Dairy Extension.” Animal and Veterinary Science departmental review meeting, Moscow, ID, October, 2017
  - “Artificial insemination,” “Semen handling,” and “Heat detection and AI,” Extension Spanish and English language AI School, Twin Falls, ID, September, 2017
  - “Professionalism: Tips for success.” Invited speaker to the Idaho DHIA Supervisors' Annual Meeting, Twin Falls, ID, August, 2017
  - “Genomics and fertility: Research and Extension update.” Dairy Cattle Genomics Workshops, State College, PA, July, 2017; Lowville, NY, July, 2017; Harrisonburg, VA, August, 2016

**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):****Presentations (cont'd):**

University of Idaho: (2017) (cont'd)

“Anatomy, physiology, and the estrous cycle of the cow,” “Heat detection,” “Reproductive management of dairy heifers,” “Monitoring reproduction,” ABS Global Reproductive Management Services Training, Twin Falls, ID, May, June, July, September, October, November, 2017

“Dairy cattle genomics and fertility,” UI Spanish Dairy Middle Managers Meeting, May, 2017

“Artificial insemination,” “Anatomy and physiology of the reproductive tract,” “Semen handling,” “AI technique,” “Heat detection,” “AI stud tour,” “Sexed semen,” “Synchronization programs,” Lincoln Memorial University College of Veterinary Medicine (sponsored by SCAABP), Harrogate, TN, April, 2017

“Artificial insemination,” “Anatomy and physiology of the reproductive tract,” “Semen handling,” “AI technique,” “Heat detection,” “AI stud tour,” “Sexed semen,” “Synchronization programs,” Ross University School of Veterinary Medicine AI Certification Course (sponsored by SCAABP), Basseterre, St. Kitts, West Indies, March, July, 2017

University of Idaho: (2016)

“Genomics: An introduction,” and “Genomics and fertility: Research update.” Dairy Cattle Genomics Workshops, Jerome, ID, November 2016; Stephenville, TX, Okeechobee, FL, Tulare, CA, December, 2016

“Beef cattle production in Brazil,” Ross University School of Veterinary Medicine, Basseterre, St. Kitts, West Indies, November, 2016

“Genomics and fertility: Research and Extension update,” Idaho DHIA Annual Meeting, Boise, ID, November, 2016

“Bull Fertility: Basic measures of semen quality and fertility research in Brazil,” Roy A. Wallace Reproduction Symposium, Porto Seguro, Bahia, Brazil, October, 2016

“Genomics and fertility: Research update.” Dairy Cattle Genomics Workshop, Madison, WI, October, 2016

“Genomics and cattle: An introduction.” Washington State University Animal Genetics class, September, 2016

“Genetics and genomics: An introduction,” and “Daughter pregnancy rate.” Dairy Cattle Genomics: Animal Health and Fertility Pre-Conference Seminar prior to the American Association of Bovine Practitioners Annual Conference, Charlotte, NC, September, 2016

“Sexed semen,” “Genomics and fertility: Where are we going and when will we get there?” and “How do I monitor AI technicians and help them excel?” Reproduction for Success and Profit Pre-Conference Seminar prior to the American Association of Bovine Practitioners Annual Conference, Charlotte, NC, September, 2016

“Genomics and fertility: Research and Extension update,” Invited speaker to the Idaho DHIA Supervisors' Annual Meeting, Twin Falls, ID, August, 2016

“Increasing dairy cattle fertility through translational genomics,” (webinar), DAIReXnet, May, 2016

“Genomics and fertility: Where are we going?” Ross University School of Veterinary Medicine, Basseterre, St. Kitts, West Indies, March, 2016

“Genomics and fertility: Where are we going?” University of Idaho and Idaho State Veterinary Technicians Association Magic Valley meeting, February, 2016

“Artificial insemination,” “Anatomy and physiology of the reproductive tract,” “Semen handling,” “AI technique,” “Heat detection,” “AI stud tour,” “Sexed semen,” “Synchronization programs,” Ross University School of Veterinary Medicine AI Certification Course (sponsored by SCAABP), Basseterre, St. Kitts, West Indies, March, July, and November, 2016

“Reproduction,” Producer College sponsored by EPL Feed, Lynden, WA, January, 2016

University of Idaho: (2015)

“Genomics and fertility: Where are we going?” Idaho State DHIA Annual Meeting, Twin Falls, ID, November, 2015

“Genomics and fertility: Where are we going?” and “Sperm dose titration study.” Roy A. Wallace Reproduction Symposium, Plain City, OH, October, 2015

“Where are we going? When will we get there?” “Survey of genomic management practices of United States' dairy producers,” and “Improving dairy cattle fertility using translational genomics.” Dairy Cattle Genomics Workshop, Madison, WI, September, 2015

**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):****Presentations (cont'd):**

- University of Idaho: (2015) (cont'd)
- “UI Dairy Extension Programs,” Idaho Dairymen’s Association Industry Relations Committee, Twin Falls, ID, July, 2015
  - “Strategies for success in heat detection and AI,” Ross University School of Veterinary Medicine, Basseterre, St. Kitts, West Indies, July,
  - “Anatomy, physiology, and the estrous cycle of the cow,” “Heat detection,” “Reproductive management of dairy heifers,” “Monitoring reproduction,” “Synchronization programs,” ABS Global Reproductive Management Services Training, Twin Falls, ID, February, March, April, May, October, November, 2015
  - “Research update: Improving fertility of dairy cattle using translational genomics.” Dairy Genomics Workshop, Clovis, NM, May, 2015
  - “Introduction to genomics and fertility,” “Research update: Improving fertility of dairy cattle using translational genomics,” and “Research update: Genomic selection for improved fertility of dairy cows with emphasis on cyclicity and pregnancy.” Dairy Genomics Workshop, Tulare, CA, April, 2015
  - “Artificial insemination,” “Semen handling,” and “Heat detection and AI,” Extension Spanish and English language AI School, Twin Falls, ID, April, 2015
  - “Milk quality and mastitis,” Vallivue High School Ag Zoology Class, Caldwell, ID, March, 2015
  - “Survey of genomic management practices of United States’ dairy producers,” Payette Valley DHIA Association Annual Meeting, New Plymouth, ID, March, 2015
  - “Antibiotic residue avoidance,” Ross University School of Veterinary Medicine, Basseterre, St. Kitts, West Indies, March, 2015
  - “Artificial insemination,” “Anatomy and physiology of the reproductive tract,” “Semen handling,” “AI technique,” “Heat detection,” “AI stud tour,” “Sexed semen,” “Synchronization programs,” Ross University School of Veterinary Medicine AI Certification Course (sponsored by SCAABP), Basseterre, St. Kitts, West Indies, March, July, 2015
  - “Strategies for AI in heifers: The foundation,” “Heifer AI: Tools for the toolbox,” “Sexed semen,” Alta Genetics Elite Account Manager Meeting, Phoenix, AZ, January, 2015
- University of Idaho: (2014)
- “Introduction to genomics and fertility,” Dairy Genomics Workshops, Jerome, ID, Sunnyside, WA, Stephenville, TX, and Okeechobee, FL, December, 2014
  - “Survey of genomic management practices of United States’ dairy producers,” Ross University School of Veterinary Medicine, Basseterre, St. Kitts, West Indies, November, 2014
  - “UI Dairy Extension Programs,” Idaho Dairymen’s Association Industry Relations Committee, Twin Falls, ID, October, 2014
  - “Semen handling,” “Progesterone testing,” and “How do I monitor AI technicians and help them excel?” Reproduction for Success and Profit Pre-Conference Seminar prior to the American Association of Bovine Practitioners Annual Conference, Albuquerque, NM, September, 2014
  - “Dairy Research and Extension,” UI Animal and Veterinary Science graduate student meeting, Moscow, ID, September, 2014
  - “Artificial insemination,” “Semen handling,” “Heat detection and AI,” Extension Spanish and English language AI School, Twin Falls, ID, August, 2014
  - “Do lactating dairy cows show behavioral estrus associated with first postpartum ovulation?” Ross University School of Veterinary Medicine, Basseterre, St. Kitts, West Indies, July, 2014
  - “Using milk samples to determine pregnancy status,” Montana Dairymen’s Meeting --- sponsored by Idaho State DHIA, Shelby, MT, May, 2014
  - “The importance of accessory sperm,” Ross University School of Veterinary Medicine, Basseterre, St. Kitts, West Indies, March, 2014
  - “Artificial insemination,” “Anatomy and physiology of the reproductive tract,” “Semen handling,” “AI technique,” “Heat detection,” “AI stud tour,” “Sexed semen,” “Synchronization programs,” Ross University School of Veterinary Medicine AI Certification Course (sponsored by SCAABP), Basseterre, St. Kitts, West Indies, March, July, November, 2014
  - “Activity monitoring for heat detection and health,” Payette Valley DHIA Annual Meeting, Fruitland, ID, March, 2014

**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):****Presentations (cont'd):**

University of Idaho: (2014) (cont'd)

“Anatomy, physiology, and the estrous cycle of the cow,” “Heat detection,” “Reproductive management of dairy heifers,” “Monitoring reproduction,” “Synchronization programs,” ABS Global Reproductive Management Services Training, Twin Falls, ID, March, April, May, July, August, September, October, November, 2014

University of Idaho: (2013)

“Activity monitoring for heat detection and health,” Ross University School of Veterinary Medicine, Basseterre, St. Kitts, West Indies, November, 2013

“Using milk samples to determine pregnancy status,” Idaho State DHIA Annual Meeting, Mountain Home, ID, October, 2013

“Artificial insemination technique” and “Semen collection and processing,” Homedale High School, Homedale, ID, October 2013

“Semen handling,” “Progesterone testing” and “How do I monitor AI technicians and help them excel?” Reproductive Success for Fun and Profit Pre-Conference Seminar prior to the American Association of Bovine Practitioners Annual Conference, Milwaukee, WI, September, 2013

“Anatomy, physiology, and the estrous cycle of the cow,” “Heat detection,” “Reproductive management of dairy heifers,” “Monitoring reproduction,” “Synchronization programs,” ABS Global Reproductive Management Services Training, Twin Falls, ID, August, September, October, 2013

“Does fertility-associated antigen on sperm collected from Nelore (*Bos indicus*) bulls affect fertility at first-service timed AI? Ross University School of Veterinary Medicine, Basseterre, St. Kitts, West Indies, July, 2013

“Artificial insemination,” “Semen handling,” and “Heat detection and AI,” Extension Spanish and English language AI School, Twin Falls, ID, May, December, 2013

“Haplotypes affecting fertility,” Ross University School of Veterinary Medicine, Basseterre, St. Kitts, West Indies, March, 2013

“Artificial insemination,” “Anatomy and physiology of the reproductive tract,” “Semen handling,” “AI technique,” “Heat detection,” “AI stud tour,” “Sexed semen,” “Synchronization programs,” Ross University School of Veterinary Medicine AI Certification Course (sponsored by SCAABP), Basseterre, St. Kitts, West Indies, March, July, November 2013

“Using milk samples to determine pregnancy status,” Payette Valley DHIA Annual Meeting, Fruitland, ID, February, 2013

University of Idaho: (2012)

“Using milk samples to determine pregnancy status,” Ross University School of Veterinary Medicine, Basseterre, St. Kitts, West Indies, November, 2012

“Using milk samples to determine pregnancy status,” Idaho DHIA Supervisor’s Conference, Twin Falls and Boise, ID, October 2012

“Characteristics of early postpartum estrus behavior and ovulation in lactating dairy cows using radiotelemetry,” Roy A. Wallace Reproduction Symposium, Columbus, OH, October, 2012

“Artificial insemination technique” and “Semen collection and processing,” Homedale High School, Homedale, ID, October 2012

“Idaho Dairy Extension,” Idaho Dairymen’s Association Industry Relations Committee, Twin Falls, ID, October, 2012

“Semen handling,” “Progesterone testing,” and “How do I monitor AI technicians and help them excel?” Reproductive Success for Fun and Profit Pre-Conference Seminar prior to the American Association of Bovine Practitioners Annual Conference, Montréal, Québec, Canada, September, 2012

“Progesterone testing,” Ross University School of Veterinary Medicine, Basseterre, St. Kitts, West Indies, July, 2012

“Programas reproductivos para vaquillas lecheras” (Reproduction programs for dairy heifers), Extension Herd Manager Seminar, Twin Falls, ID, June, 2012

“Synchronization programs for dairy heifers,” Ross University School of Veterinary Medicine, Basseterre, St. Kitts, West Indies, March, 2012

**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):****Presentations (cont'd):**

University of Idaho: (2012) (cont'd)

“Artificial insemination,” “Anatomy and physiology of the reproductive tract,” “Semen handling,” “AI technique,” “Heat detection,” “AI stud tour,” “Sexed semen,” “Synchronization programs,” Ross University School of Veterinary Medicine AI Certification Course (sponsored by SCAABP), Basseterre, St. Kitts, West Indies, March, July, November, 2012

“Haplotypes affecting fertility,” Payette Valley DHIA Annual Meeting, Fruitland, ID, February, 2012

“Artificial insemination,” “Semen handling,” and “Heat detection and AI,” Extension Spanish and English language AI School, Twin Falls, ID, February, May, November, 2012

University of Idaho: (2011)

“Reproduction programs for dairy heifers,” Ross University School of Veterinary Medicine, Basseterre, St. Kitts, West Indies, November, 2011

“Reproducción en vacas lecheras” (Reproduction in dairy cows), Extension Herd Manager Seminar, Twin Falls, ID, October, 2011

“University of Idaho Dairy Extension Program,” Animal and Veterinary Science Department Advisory Board, Moscow, ID, October, 2011

“Artificial insemination technique” and “Semen collection and processing,” Homedale High School, Homedale, ID, October 2011

“Heat detection accuracy,” Genex/CRI Dairy Membership Meeting, Caldwell, ID, October, 2011

“Attempts to increase the efficiency of AI in dairy cattle,” The Ohio State University, College of Veterinary Medicine, Theriogenology and Reproductive Medicine, Columbus, OH, October, 2011

“Does fertility-associated antigen on sperm collected from Nelore (*Bos indicus*) bulls affect fertility at first-service timed AI?” Roy A. Wallace Reproduction Symposium, Columbus, OH, October, 2011

“Semen handling,” “Progesterone testing,” “How do I monitor AI technicians and help them excel?” and “Heifer reproduction: Keys to success,” Reproductive Success for Fun and Profit Pre-Conference Seminar prior to the American Association of Bovine Practitioners Annual Conference, St. Louis, MO, September, 2011

“University of Idaho Dairy Extension Program,” Idaho Dairymen’s Association, Meridian, ID, July, 2011

“AI technician management and evaluation” Ross University School of Veterinary Medicine, Basseterre, St. Kitts, West Indies, July, 2011

“Artificial insemination,” “Anatomy and physiology of the reproductive tract,” “AI technique,” “Semen handling,” “Heat detection and AI,” “AI as a business,” “Introduction to Idaho,” Land O’Lakes International Development Refresher Course on Artificial Insemination, Cagayan de Oro, Mindanao, Republic of the Philippines, May, 2011

“Artificial insemination,” “Semen handling,” “Heat detection and AI,” Extension Spanish and English language AI School, Twin Falls, ID, May, September, 2011

“Got genomics?” “Dairy animal care” and “Residue avoidance in milk and dairy beef,” Idaho DHIA Spring Meeting (co-sponsored by Meadow Gold), Great Falls, MT, April, 2011

“Residue avoidance in milk and dairy beef,” Ross University School of Veterinary Medicine, Basseterre, St. Kitts, West Indies, March, 2011

“Artificial insemination,” “Anatomy and physiology of the reproductive tract,” “Semen handling,” “AI technique,” “Heat detection,” “AI stud tour,” “Sexed semen,” “Synchronization programs,” Ross University School of Veterinary Medicine AI Certification Course (sponsored by SCAABP), Basseterre, St. Kitts, West Indies, March, July, November, 2011

“Semen collection and processing,” “Semen handling,” “Heat detection,” “AI technician evaluation,” “Synchronization programs,” “Opportunities and challenges with sexed semen,” Alta Genetics AI Technician Re-Training School, Twin Falls, ID, February, 2011, and Caldwell, ID, March 2011

“Antibiotic residue avoidance,” Payette Valley DHIA Annual Meeting, Fruitland, ID, February, 2011

University of Idaho: (2010)

“Got genomics?” Idaho State DHIA Annual Meeting, Twin Falls, ID, November, 2010

“Artificial insemination,” and “Semen handling,” Extension Spanish and English language AI School, Twin Falls, ID, November, 2010

**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):****Presentations (cont'd):**

University of Idaho: (2010) (cont'd)

- “Artificial insemination” and “Semen collection and processing,” Homedale High School, Homedale, ID, October, 2010
- “Semen collection and processing,” “Semen handling and thawing,” “Heat detection accuracy” and “Sire selection for timed AI programs,” Reproductive Success for Fun and Profit Pre-Conference Seminar prior to the American Association of Bovine Practitioners Annual Conference, Albuquerque, NM, August, 2010
- “Opportunities and challenges with sexed semen,” Ross University School of Veterinary Medicine, Basseterre, St. Kitts, West Indies, May, 2010
- “Sire conception rate,” Payette Valley DHIA Annual Meeting, Fruitland, ID, February, 2010
- “Why AI and not natural service?” Ross University School of Veterinary Medicine, Basseterre, St. Kitts, West Indies, January, 2010
- “Artificial insemination,” “Anatomy and physiology of the reproductive tract,” “Semen handling,” “AI technique,” “Heat detection,” “AI stud tour,” Ross University School of Veterinary Medicine AI Certification Course (sponsored by SCAABP), Basseterre, St. Kitts, West Indies, January, May, 2010

University of Idaho: (2009)

- “Artificial insemination,” and “Semen handling,” Extension Spanish and English language AI School, Twin Falls, ID, December, 2009
- “Heat detection accuracy,” 55th Annual DHI-Provo Herd Management Conference, Provo, UT, November, 2009
- “Opportunities and challenges with sexed semen,” and “Got genomics?” Idaho DHIA Annual Supervisor Conference, Jerome, ID, and Nampa, ID, September, 2009
- “Role of the dairy industry,” “Milking systems,” “Milk removal and milking unit handling,” “Prevention of antibiotic residues in bulk tank milk,” Extension Milking School (in collaboration with The International Rescue Committee), Caldwell, ID, February, March, June, September, 2009
- “Semen production,” “Semen handling,” “Field evaluation of semen,” “Progesterone testing,” “Heat detection accuracy,” “Technician management,” Reproductive Success for Fun and Profit Pre-Conference Seminar prior to the American Association of Bovine Practitioners Annual Conference, Omaha, NE, September, 2009
- “ADSA/ASAS Meeting Summary-Dairy Abstracts,” (webinar), Technical Services Team at ABS Global, Inc., Caldwell, ID, August, 2009
- “Reproducción en vacas lecheras” (Reproduction in dairy cows), Extension Veterinarian/Herd Manager Seminar, Twin Falls, ID, May, 2009
- “Understanding interest groups and specialist-educator relations,” New University of Idaho Extension Employee Orientation, Boise, ID, April, 2009
- “Got genomics?” Payette Valley DHIA Annual Meeting, Fruitland, ID, February, 2009

University of Idaho: (2008)

- “Artificial insemination,” “Semen handling,” “How to maximize reproduction,” Extension Spanish language AI School, Twin Falls, ID, December, 2008
- “Opportunities and challenges with sexed semen,” (webinar), Technical Services Team at ABS Global, Inc., Caldwell, ID, December 2008
- “Effect of duration of intravaginal progesterone insert (CIDR) treatment on pregnancy rate per AI in dairy heifers using a timed-AI protocol,” Select Sires Estrous Synchronization Think Tank, Columbus, OH, October, 2008
- “Semen handling,” “Field evaluation of semen,” and “Heat detection accuracy,” Reproductive Success for Fun and Profit Pre-Conference Seminar prior to the American Association of Bovine Practitioners Annual Conference, Charlotte, NC, September, 2008
- “University of Idaho Dairy Extension,” Idaho Dairymen’s Association Industry Relations Committee meeting, Twin Falls, ID, August, 2008
- “Dystocia, calving ease, and stillbirths,” (webinar), Technical Services Team at ABS Global, Inc., Caldwell, ID, May, 2008
- “AI stud tour,” “AI technician performance,” and “Opportunities and challenges with sexed semen,” Alta Genetics AI Technician Re-Training School, Caldwell, ID, April, 2008

**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):**

**Presentations (cont'd):**

- University of Idaho: (2008) (cont'd)  
 "Opportunities and challenges with sexed semen," Payette Valley DHIA Annual Meeting, Fruitland, ID, February, 2008
- University of Idaho: (2007)  
 "Artificial insemination," "Semen handling," "How to maximize reproduction," Extension Spanish language AI School, Twin Falls, ID, December, 2007  
 "Opportunities and challenges with sexed semen," 53<sup>rd</sup> Annual DHI-Provo Herd Management Conference, Monterey, CA, November, 2007  
 "Opportunities and challenges with sexed semen," World Dairy Expo, Madison, WI, October, 2007  
 "Calf sex ratios," (webinar), Technical Services Team at ABS Global, Inc., Caldwell, ID, October, 2007  
 "Opportunities and challenges with sexed semen," Land O'Lakes Purina Technical Conference for Consultants, Madison, WI, October, 2007  
 "University of Idaho Dairy Extension," Idaho Dairymen's Association Industry Relations Committee meeting, Twin Falls, ID, August, 2007  
 "Idaho dairy trends" and "Reproduction and lactation" Idaho State Tax Commission's Dairy Technology School for Assessors, Boise, ID, August, 2007  
 "Producing pregnancies," ABS Global Technical Services Conference, Sunnyside, WA, July, 2007  
 "Physiology of parturition," Extension Spanish Language Calving School, SIMCO Dairy, Mountain Home, ID, May, 2007  
 "Role of the Idaho dairy industry," "Review of milking systems," and "Prevention of antibiotic residue in bulk tank milk," Extension Spanish Language Milking School, SIMCO Dairy, Mountain Home, ID, April, 2007
- University of Idaho: (2006)  
 "Pregnancy diagnosis by palpation of uterine contents," Idaho Board of Veterinary Medicine, Boise, ID, October, 2006  
 "AI technician performance," ABS Global Professional AI Technician Re-Training Session, Caldwell, ID, September, 2006  
 "University of Idaho Update," United Dairymen of Idaho Board Meeting, Boise, ID, July, 2006  
 "University of Idaho Dairy Extension," Cooperative State, Research, Education and Extension Service review of the Animal and Veterinary Science Department, Moscow, ID, April, 2006  
 "Reproductive management of dairy heifers to achieve a desired age at first calving," Extension Winter Dairy Forum, Rigby and Preston, ID, January, 2006  
 "University of Idaho Update," United Dairymen of Idaho Board Meeting, Boise, ID, February 2006  
 "National animal identification system," and "Brucellosis in Idaho," Payette Valley DHIA Annual Meeting, Fruitland, ID, February, 2006
- University of Idaho: (2005)  
 "Update: Idaho dairy trends," and "Young sire programs," Idaho State DHIA Annual Supervisor's Conference, Jerome, ID, September, 2005  
 "The physiology of parturition," (Spanish) Extension Raising Healthy Calves Workshop, Caldwell, Twin Falls, and Blackfoot, ID, May, 2005  
 "The physiology of parturition," (English) Extension Raising Healthy Calves Workshop, Blackfoot, ID, May, 2005  
 "AI technician performance" and "Why AI and not natural service?" ABS Global Intern and New Associate Training Conference, Twin Falls, ID, May, 2005  
 "Ultrasound and resynchronization," Caine Veterinary Teaching Center Ultrasound Workshop for Veterinarians, Parma, ID, June, 2005  
 "University of Idaho Update," United Dairymen of Idaho Board Meeting, Eagle, ID, August, 2005
- University of Idaho: (2004)  
 "Managing reproduction for greater profitability," UI Dairy Mini-Symposium, Moscow, ID, December, 2004  
 "Dairy beef en Español," Extension Dairy Beef Workshop, Caldwell, ID, April, 2004  
 "University of Idaho Update," United Dairymen of Idaho Board Meeting, Twin Falls, ID, July, 2004

**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):****Presentations (cont'd):**

University of Idaho: (2004) (cont'd)

- “Factors contributing to the decline in reproductive efficiency in dairy cattle,” UI-WSU Center for Reproductive Biology, Pullman, WA, April, 2004
- “Troubleshooting reproduction in large dairy herds,” and “From the outside looking in,” Select Sires Large Herd Think Tank, Chicago, IL, April, 2004
- “University of Idaho Update,” United Dairymen of Idaho Board Meeting, Boise, ID, April, 2004
- “Shorter dry periods,” Beef and Dairy Cattle Veterinary Services, Milk Logic, and Pfizer Animal Health Workshop, Nampa, ID, April, 2004
- “Update on BSE” and “United States animal identification plan,” Payette Valley DHIA Annual Meeting, Fruitland, ID, February, 2004
- “Role of the dairy industry,” “Milking systems,” “Milk removal and milking unit handling” and “Prevention of antibiotic residues in bulk tank milk,” Extension Southwestern Idaho Milking School (Spanish), Caldwell, ID, January, 2004

University of Idaho: (2003)

- “Male and female anatomy” and “Sire selection,” Treasure Valley Dairy Replacement Heifer Project, Caldwell, ID, November, 2003
- “Growth opportunities for DHIA?” DHI-Provo 49<sup>th</sup> Annual Herd Management Conference, Sacramento, CA, November, 2003
- “Update: Idaho dairy trends,” and “Idaho dairy management practices survey,” Idaho State DHIA Annual Conference, Twin Falls, ID, October, 2003
- “A modified systematic breeding protocol using heat detection and timed AI,” Select Sires Estrous Synchronization Think Tank, Columbus, OH, October, 2003
- “Idaho dairy management practices survey,” Idaho State DHIA, Twin Falls, ID, July, 2003
- “Price targets and your marketing plan,” Extension Achieving Risk Management Success in Dairy Workshop, Caldwell, ID, April, 2003
- “Dairy beef: Maximizing quality and profits,” Extension Dairy Beef Workshop, Caldwell, ID, April, 2003
- “AI technician performance” and “Why AI and not natural service?” ABS Global Technical Services Western Dairy Management Conference Pre-Conference Session, Reno, NV, March, 2003
- Role of the dairy industry,” “Milking systems,” “Milk removal and milking unit handling” and “Prevention of antibiotic residues in bulk tank milk,” Extension Idaho Milking School (Spanish), Caldwell, Twin Falls, Preston, and Blackfoot, ID, 2003
- “Milk urea nitrogen,” Payette Valley DHIA Annual Meeting, Fruitland, ID, February, 2003
- “Reproductive troubleshooting: Where to begin and what to expect,” Extension Winter Dairy Forum, Preston and Rexburg, ID, January, 2003

University of Idaho: (2002)

- “Role of the dairy industry,” “Milking systems,” “Milk removal and milking unit handling” and “Prevention of antibiotic residues in bulk tank milk,” Extension Idaho Milking School (Spanish), Caldwell, Twin Falls, and Blackfoot, ID, 2002
- “Strategies to maximize the reproductive performance of high producing cattle,” Holstein Genetika KFT (World Wide Sires, Ltd) Workshop, Debrecen and Kezsythely, Hungary, November, 2002
- “Mastitis in dairy cattle,” and “Strategies to maximize the reproductive performance of high producing cattle,” Slovenske Biologicke Sluzby (World Wide Sires, Ltd) Workshop, Nitra, Slovakia, November, 2002
- “Strategies to maximize the reproductive performance of high producing cattle,” M.T.S. Spol S.R.O. (World Wide Sires, Ltd) Workshop, Rokytnice and Nepalice, Czech Republic, November, 2002
- “Reproductive trends in U.S. dairy herds and strategies to enhance performance,” World Wide Sires-Polska (World Wide Sires, Ltd) Workshop, Szczecin, Poland, November, 2002
- “Western dairy trends,” DHI-Provo 48<sup>th</sup> Annual Herd Management Conference, Reno, NV, November, 2002
- “Male and female anatomy” and “Sire selection,” Treasure Valley Dairy Replacement Heifer Project, Parma, ID, October, 2002
- “Western dairy trends,” Idaho State DHIA Annual Conference, Twin Falls, ID, September, 2002

**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):****Presentations (cont'd):**

University of Idaho: (2002) (cont'd)

- “Research and Extension Update-Idaho and Ecuador,” UI-WSU Center for Reproductive Biology Annual Meeting, Worley, ID, May, 2002
- “Maximizing reproduction in dairy heifers,” Farm City/Purina Mills, Inc., Workshop, Caldwell, ID, May, 2002
- “What is a marketing plan?” “Price targets via costs of production and farm business and family goals,” and “Current situation and outlook, sources of market information,” Extension Achieving Risk Management Success in Dairy Workshop, Caldwell, ID, March, 2002
- “Risk management simulations using put options,” Dairy Options Pilot Program, Caldwell, ID, March, 2002
- “John’s disease: Is your herd at risk?” Payette Valley DHIA Annual Meeting, Fruitland, ID, February, 2002
- “Reproductive management and performance: Trends, tips, and multiple semen straw thawing,” Extension Winter Dairy Forum, Preston and Rexburg, ID, January, 2002
- “Role of the dairy industry,” “Milking systems,” “Milk removal and milking unit handling” “Prevention of antibiotic residues in bulk tank milk,” Extension Idaho Milking School presentations (English), Caldwell, and Twin Falls, ID, 2002

University of Idaho: (2001)

- “Sire selection,” Treasure Valley Dairy Replacement Heifer Project, Parma, ID, November, 2001
- “Farmer to Farmer: Quito-Cuenca, Ecuador and Idaho,” Partners of the Americas (Idaho Chapter) Annual Conference, Ketchum, ID, October, 2001
- “Maximizing dairy heifer reproduction,” Professional Dairy Heifer Grower’s Association Regional Meeting, Pendleton, OR, October, 2001
- “Role of the dairy industry,” “Milking systems,” “Milk removal and milking unit handling” and “Prevention of antibiotic residues in bulk tank milk,” Extension Idaho Milking School presentations (English), Caldwell, ID, August, 2001
- “Time of insemination in single-ovulating and superovulated cattle identified in estrus by HeatWatch: Effect on fertilization rate, embryo quality and conception rate,” UI-WSU Center for Reproductive Biology Annual Meeting, Worley, ID, May, 2001
- “Reproductive goals and timed AI,” Magic Valley Dairy Discussion Group, Wendell, ID, April, 2001
- “Anatomy and physiology of reproduction” and “Calving management,” University of Idaho Extension-Select Sires, Inc., Artificial Insemination School, Caldwell, ID, March, 2001
- “Achieving risk management success,” Extension Risk Management Workshop, Caldwell, ID, March, 2001
- “Risk management simulations using put options,” Dairy Options Pilot Program, Caldwell, ID, March, 2001
- “Getting ready for your nutrient management plan--Livestock inventory, waste handling methods, and dairy water use,” Extension Winter Dairy Forum, Caldwell, ID, March, 2001
- “Proper AI techniques for maximum reproduction,” College of Southern Idaho Dairy School, Twin Falls, ID, March, 2001
- “University of Idaho Dairy Extension and Research Update,” Payette Valley DHIA Annual Meeting, Fruitland, ID, February, 2001

University of Idaho: (2000)

- “Early postpartum reproductive management,” Purina Mills, Inc., Northwest Montana Dairy Production Meeting, Great Falls, Montana, November, 2000
- “Dairy heifer reproductive management,” Professional Dairy Heifer Grower’s Association Regional Meeting, Boise, ID, September, 2000

University of Minnesota, Crookston: (1999)

- “Reproductive techniques and AI,” Ag Activities Day, Crookston, MN, 1999
- “Semen analysis and AI,” Student Outreach Science/Agriculture Workshop, Crookston, MN, 1999

**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):****Presentations (cont'd):**

Virginia Tech: (1993-1998)

“Graduate school experiences,” Intern Program for Minority Students Luncheon, Blacksburg, VA, 1998

“Artificial insemination and embryo transfer,” 4-H Dairy Management Workshop, Blacksburg, VA, 1996

“Effects of bST on reproductive performance,” Dairy Herd Reproductive Management Cow College, Blacksburg, VA, 1995

“Sex-separated sperm,” Genetics and Reproductive Management Cow College, Blacksburg, VA, 1994

“Male and female reproductive physiology,” Dairy Science Recruiting Day mock class, Blacksburg, VA, 1993-94

Utah State University: (1991)

“Effect of methionyl bovine somatotropin administration on luteinizing hormone in dairy cattle,”

Western Regional Dairy Extension Specialists Annual Meeting presentation, Park City, UT, 1991

**Papers Presented at Scholarly Meetings:**

“Genomics and fertility in dairy cattle.” Invited speaker to the IETS Innovation Workshop 2: Practical Genomics for the ET Practitioner, Orlando, FL, October, 26, 2017.

“New reproductive strategies and economic outcomes for dairy heifers.” Invited speaker to the Dairy Calf and Heifer Association Annual Meeting, Madison, WI, April 11-13, 2017.

“Factors affecting fertility of conventional and sexed semen.” Invited speaker to the Applied Reproductive Strategies in Beef Cattle Conference, Des Moines, IA, September 7-8, 2016.

“Genetics and Genomics: An Introduction,” and “Genomics and Fertility: Where are we going and when will we get there?” Invited speaker to the Society for Theriogenology Annual Meeting, Asheville, NC, July 29, 2016.

“The male component of dairy herd fertility.” Invited speaker to the Large Dairy Herd Management Conference, Oak Brook, IL, May 2-4, 2016.

“Genomics and fertility: Where are we going?” Invited speaker to the Dairy Cattle Reproduction Council Annual Meeting, Buffalo, NY, November 12-13, 2015.

“Genomics and fertility: Where are we going?” Invited speaker to the Academy of Dairy Veterinary Consultants Annual Meeting, Sacramento, CA, October 3, 2015.

“Management and insemination-related factors affecting fertilization in cattle.” Invited speaker to the Applied Reproductive Strategies in Beef Cattle Conference, Davis, CA, August 17-18, 2015.

“Genomic selection and reproductive efficiency in dairy cattle.” Invited speaker to the Dairy Cattle Reproduction Council Annual Meeting, Salt Lake City, UT, November 13-14, 2014.

“Insemination related factors affecting fertilization in estrous synchronized cattle.” Invited speaker to the Applied Reproductive Strategies in Beef Cattle Conference, Stillwater, OK, October 8-9, 2014.

“AI after estrus detection, 5-d, 7-d, and 14-d CIDR programs for heifers,” and “Sexed semen.” Invited speaker to the Ohio Dairy Health and Management Certificate Program: Applied Dairy Reproduction, The Ohio State University, Columbus, OH, August 7-8, 2014.

**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):****Papers Presented at Scholarly Meetings (cont'd):**

- “AI technician management,” “Reproductive performance of dairy heifers with emphasis on management factors,” “Reproductive programs for dairy heifers with emphasis on estrous detection,” and “Semen quality, handling and delivery – Working with AI technician.” Invited speaker to the Ohio Dairy Health and Management Certificate Program: Applied Dairy Reproduction, The Ohio State University, Columbus, OH, May 1-2, 2014.
- “AI technician management and evaluation.” Invited speaker to the 16<sup>th</sup> Día Internacional del Ganadero Lechero, Delicias, Chihuahua, México, September 12, 2013.
- “Characteristics of semen relevant to timed AI.” Invited speaker to the 10<sup>th</sup> International Symposium on Animal Reproduction, Córdoba, Argentina, July 5, 2013.
- “Management and insemination-related factors affecting fertilization in cattle.” Invited speaker to the 10<sup>th</sup> International Symposium on Animal Reproduction, Córdoba, Argentina, July, 5, 2013.
- “Insemination related factors affecting fertilization in cattle.” Invited speaker to the Applied Reproductive Strategies in Beef Cattle Conference, Sioux Falls, SD, December 3-4, 2012.
- “Synchronization programs for dairy heifers.” Invited speaker to the Dairy Calf and Heifer Association Annual Conference, Visalia, CA, March 20-21, 2012.
- “Reproductive programs for dairy heifers.” Invited speaker to the Dairy Cattle Reproduction Council Annual Meeting, Kansas City, MO, November 10, 2011.
- “Physiological principles underlying synchronization of estrus,” and “Semen quality factors associated with fertility,” Invited speaker to the Applied Reproductive Strategies in Beef Cattle – Northwest Conference, Boise, ID, September 30 – October 1, 2011.
- “Strategies for success in heat detection and AI.” Invited speaker to the 29<sup>th</sup> Western Canadian Dairy Seminar, Red Deer, Alberta, Canada, March 10, 2011.
- “AI technician management.” Invited speaker to the Dairy Cattle Reproduction Council Annual Meeting, St. Paul, MN, November 11, 2010.
- “Semen evaluation and fertility in the field.” Invited speaker to the 4<sup>th</sup> International Symposium on Applied Animal Reproduction, Londrina, Paraná, Brazil, September 24, 2010.
- “History, evolution, and practical results of the use of sexed semen.” Invited speaker to the 4<sup>th</sup> International Symposium on Applied Animal Reproduction, Londrina, Paraná, Brazil, September 24, 2010.
- “Sire conception rate: A new AI sire fertility evaluation.” Invited speaker to the XIV Course on New Approaches to Bovine Production and Reproduction, Uberlandia, Minas Gerais, Brazil, March 18-19, 2010.
- “Parameters of semen relevant to timed AI.” Invited speaker to the XIV Course on New Approaches to Bovine Production and Reproduction, Uberlandia, Minas Gerais, Brazil, March 18-19, 2010.
- “Opportunities and challenges with sexed semen.” Invited speaker to the XIV Course on New Approaches to Bovine Production and Reproduction, Uberlandia, Minas Gerais, Brazil, March 18-19, 2010.
- “Insemination related factors affecting fertilization in estrous-synchronized cattle.” Invited speaker to the Applied Reproductive Strategies in Beef Cattle Conference, San Antonio, TX, January 28-29, 2010.

**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):****Papers Presented at Scholarly Meetings (cont'd):**

- “Natural service dairy bulls.” Invited speaker to the Ohio Dairy Health and Management Certificate Program: Applied Dairy Reproduction, The Ohio State University, Columbus, OH, May 7-9, 2009.
- “CIDR-based synchronization programs in dairy heifers.” Invited speaker to the Ohio Dairy Health and Management Certificate Program: Applied Dairy Reproduction, The Ohio State University, Columbus, OH, May 7-9, 2009.
- “Heat detection accuracy and AI technician evaluation.” Invited speaker to the 9<sup>th</sup> Western Dairy Management Conference, Reno, NV, March 11-13, 2009.
- “Opportunities and challenges with sexed semen.” Invited speaker to the 11<sup>th</sup> Dia Internacional del Ganadero Lechero, Delicias, Chihuahua, México, September 4 – 6, 2008.
- “Opportunities and challenges with sex-separated sperm.” Invited speaker to the 24<sup>th</sup> Conferencia Internacional Sobre Ganado Lechero, Guadalajara, Jalisco, México, July 9 –11, 2008.
- “Management factors associated with bull fertility.” Invited speaker to the XI Course on New Approaches to Bovine Production and Reproduction, Uberlandia, Minas Gerais, Brazil, March 15-16, 2007.
- “Parameters of semen relevant to timed AI.” Invited speaker to the XI Course on New Approaches to Bovine Production and Reproduction, Uberlandia, Minas Gerais, Brazil, March 15-16, 2007.
- “Semen quality factors associated with fertility in cattle.” Invited speaker to the XI Course on New Approaches to Bovine Production and Reproduction, Uberlandia, Minas Gerais, Brazil, March 15-16, 2007.
- “Management factors associated with male fertility.” Invited speaker to the Applied Reproductive Strategies in Beef Cattle Conference, Rapid City, SD, October 3-4, 2006.
- “Management factors associated with male fertility.” Invited speaker to the Applied Reproductive Strategies in Beef Cattle Conference, St. Joseph, MO, August 30-31, 2006.
- “Reproductive management in dairy heifers.” Invited speaker to the Tri-State Northwest Dairy Shortcourse, Portland, OR, March 16, 2006.
- “Insemination related factors affecting fertilization in estrous-synchronized cattle.” Invited speaker to the Applied Reproductive Strategies in Beef Cattle Conference, Lexington, KY, November 2, 2005.
- “Maximizing reproductive performance of high producing dairy cattle.” Invited speaker to the 21<sup>st</sup> Conferencia Internacional Sobre Ganado Lechero, Guadalajara, México, July, 2005.
- “Reproductive management in large dairies.” Invited speaker to Expo Leche and V World Dairy Congress, Acapulco, México, November, 2004.
- “Strategies to improve the reproductive performance of dairy cattle.” Invited speaker to the Washington State Veterinary Medical Association Convention, Yakima, WA, October, 2004.
- “Natural service vs. AI.” Invited speaker to the National Association of Animal Breeders 20<sup>th</sup> Technical Conference on Artificial Insemination and Reproduction, Milwaukee, WI, September, 2004.
- “Deciphering synchronization programs.” Invited speaker to the Tri-State Northwest Dairy Shortcourse, Boise, ID, March, 2004.

**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):****Papers Presented at Scholarly Meetings (cont'd):**

- “Meeting the demand for dairy replacements.” Invited panel moderator to the 6<sup>th</sup> Western Dairy Management Conference, Reno, NV, March, 2003.
- “Troubleshooting reproductive problems: Where to begin and what to expect.” Invited speaker to the 5<sup>th</sup> Annual Intermountain Nutrition Conference, Salt Lake City, UT, January, 2003.
- “Reproductive management and performance: Trends, tips, and multiple semen straw thawing.” Invited speaker to the Tri-State Northwest Dairy Shortcourse, Boise, ID, March, 2002.
- “Time of insemination in single-ovulating and superovulated cattle identified in estrus by HeatWatch: Effect on fertilization rate, embryo quality, and conception rate.” Invited speaker to the 19<sup>th</sup> Annual Convention of the American Embryo Transfer Association, Sacramento, CA, October, 2000.
- “Towards the enhancement of pregnancy rate: The effect of insemination time on sperm transport, fertilization rate and embryo quality in dairy cattle.” Invited speaker to the Brit. Soc. Anim. Sci. Fertility in the High Producing Dairy Cow Occasional Meeting, Galway, Ireland, September, 1999.

**Other Scholarly Activities:**

## University of Idaho

- External Promotion and Tenure Review Member, Department of Animal Biology, Faculty of Land and Food Systems, University of British Columbia, 2015
- External Promotion and Tenure Review Member, Department of Large Animal Clinical Sciences, College of Veterinary Medicine, University of Florida, 2015
- National Milk Producers Federation National Dairy Farm Program “Train the Trainer” Animal Care Certification, Twin Falls, ID, 2013
- External Promotion and Tenure Review Member, Veterinary Population Medicine Department, College of Veterinary Medicine, University of Minnesota, 2012
- Peer-reviewer, DAIReXNET, 2011, 2013
- External reviewer, Oregon State University Extension Service publication “Use caustic paste to dehorn calves,” 2011
- Grant reviewer, The Ohio State University, Ohio Agricultural Research and Development Center (OARDC) SEEDS Research Enhancement Competitive Grants program, 2010, 2012
- DAIReXNet, national reproduction team member and domain co-leader, 2010-
- Grant reviewer, United States Department of Agriculture - National Institute of Food and Agriculture Integrated Solutions in Agriculture program, 2009; Animal Reproduction Program, 2013, 2014, 2015
- Peer-reviewer, *Cow-Calf Management Guide – Cattle Producer’s Library* (published by the Western Beef Resource Committee), 2008
- External Promotion Review member, Department of Animal Sciences, Oregon State University, 2007
- DAIReXNet, “Ask the expert,” 2007-
- World Wide Sires, Ltd., World Wide Sires University Professor (VIP website “Ask the expert” section), 2008-
- Peer-reviewer, Association for Applied Animal Andrology, 2012
- Peer-reviewer, International Congress on Animal Reproduction, 2012
- Peer-reviewer for the *Journal of Animal Science, Western Section*, 2007
- Peer-reviewer for *Animal Reproduction Science*, 2004, 2008, 2010
- Peer-reviewer for *Theriogenology*, 2004-2005, 2010-2013, 2015
- Peer-reviewer for the *Journal of Dairy Science*, 2003-
- Peer-reviewer for the *Journal of Animal Science*, 2017
- Peer-reviewer for the *Italian Journal of Animal Science*, 2011

**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):**

**Other Scholarly Activities (cont'd):**

Peer-reviewer for Thomson Delmar Learning Publishers: "Dairy Modernization" and "Dairy Science Management Textbook," 2001-02

**Other Creative Activities:**

University of Idaho:

"Dairy Reproduction" columnist, Dairy Herd Management magazine, 2017-  
 Northwest Ag Information Network radio "Chinese dairy," aired August 10, 2012  
 Northwest Ag Information Network radio "AI in Elk," aired April 24, 2012  
 Drover's TV interview "Semen handling," aired June 1, 2010, available at  
<http://www.youtube.com/watch?v=j2hywo9PGKw>  
 National Public Radio "From refugee to dairy worker to citizen" aired July 8, 2009  
 Northwest Ag Information Network radio "Refugees training for work on dairies," aired June 18, 2009  
 Dairyline radio "Reproductive Moment" on "Tips to decrease the age at first calving of your heifers-  
 Part II," aired October 24, 2002, and June 26, 2003  
 Dairyline radio "Reproductive Moment" on "Tips to decrease the age at first calving of your heifers-  
 Part I," aired October 17, 2002, and June 19, 2003  
 Dairyline radio "Reproductive Moment" on "Research suggests batch-thawing semen does not  
 compromise fertility," aired September 26, 2002, and March 6, 2003

University of Minnesota, Crookston:

Featured speaker on "UMC Insight" radio show, aired October 30, 1999

**Scholarly Activities in Progress:**

International:

Instructor for the Ross University School of Veterinary Medicine AI Certification Course, sponsored  
 by Select Sires and SCAABP, Basseterre, St. Kitts, West Indies, April 2018

National:

Instructor for the Lincoln Memorial University College of Veterinary Medicine AI Certification  
 Course, sponsored by Select Sires and SCAABP, Harrogate, TN, April 2018  
 Invited speaker to the 27<sup>th</sup> National Association of Animal Breeders Technical Conference on Artificial  
 Insemination and Reproduction, Green Bay, WI, September 2018

Regional:

**Grants and Contracts: Funded: (Total: \$3,672,638)**

Norell, R., M. Chahine, **J.C. Dalton**, M. de Haro-Marti, S. Jensen, C. Matuk Sarinana, G. Brumbaugh, J.  
 England, and A. Hinds. 2015. "Developing short videos for training dairy workers." Sponsor:  
 University of Idaho Extension Topic Team Program. Amount: \$3,750.

**Dalton, J.C.** 2015. "Dairy Extension Programs for SW Idaho." Sponsor: United Dairymen of Idaho. Amount:  
 \$5,000.

**Dalton, J.C.**, L. Cruppe, M. Day, F. Abreu, and J.L.M. Vasconcelos. 2014. Use of Estroject in timed AI  
 synchronization programs --- a field trial in Brazil." Sponsor: Estroject, Inc. Amount: \$10,000 (in-  
 kind).

**Dalton, J.C.**, L. Cruppe, M. Day, F. Abreu, J.L.M. Vasconcelos, M. DeJarnette, and M. Utt. 2014. "Dose  
 titration of semen --- a field trial in Brazil." Sponsor: Select Sires, Inc. Amount: \$30,000 (in-kind).

**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):**

**Grants and Contracts: Funded (Total: \$3,672,638) (cont'd):**

- Dalton, J.C.** 2014. "Dairy Extension Programs for SW Idaho." Sponsor: United Dairymen of Idaho. Amount: \$5,000.
- Dalton, J.C.** 2013. "Dairy Extension Programs for SW Idaho." Sponsor: United Dairymen of Idaho. Amount: \$5,000.
- Chahine, M., C. Schneider, R. Norell, **J. Dalton**, M.E. de Haro-Marti, S. Jensen, B. Glaze, J. Hall, C.W. Gray, K. Kraich, and C.M. Matuk. 2013. "Spanish and English dairy cattle welfare curriculum and educational materials." Sponsor: University of Idaho Extension Topic Team Grant Program. Amount: \$10,000.
- Chahine, M., R. Norell, **J.C. Dalton**, M. de Haro Marti, S. Jensen, B. Glaze, J. Hall, C.W. Gray, and C. Matuk. 2013. "Dairy workers' top 10 guidelines to improve animal welfare." Sponsor: Idaho Dairymen's Association. Amount: \$4,750.
- Chahine, M., J.B. Hall, B. Glaze, R. Norell, **J. Dalton**, M.E. de Haro-Marti, and S. Jensen. 2012. "Dairy workers' top guidelines to improve animal welfare." Sponsor: Idaho Beef Council. Amount: \$6,839.
- Spencer, T., P. Hansen, **J. Dalton**, H. Neibergs, J. Cole, A. DeVries, S. Dindot, D. Moore, T. Bilby, and M. Chahine. 2012. "Improving fertility of dairy cattle using translational genomics." Sponsor: United States Department of Agriculture, National Institute of Food and Agriculture, Agriculture and Food Research Initiative. Amount: \$3,000,000.
- Ahmadzadeh, A., **J.C. Dalton**, G. Sasser, J. Branen, and J. Howard. 2012. "Use of a new BioPRYN assay for early pregnancy detection and determination of pregnancy loss in dairy heifers synchronized with a modified 5-d CIDR-PGF<sub>2α</sub>-GnRH timed AI protocol: Fertility of dairy heifers using sex-sorted semen with and without GnRH at CIDR insertion." Sponsor: Select Sires, Inc. Amount: \$3,300.
- Chahine, M., **J.C. Dalton**, M.E. de Haro Marti, S. Etter, S. Jensen, J. Packham, and R. Norell. 2012. "Training for Hispanic Dairy Middle Managers." Sponsor: University of Idaho Extension Topic Team Grant Program. Amount: \$2,000.
- Ahmadzadeh, A., and **J.C. Dalton**. 2011. Fertility of dairy heifers following synchronization with a modified 5-day CIDR-PGF<sub>2α</sub>-GnRH timed AI protocol using sex-sorted semen with and without GnRH at CIDR insertion. Sponsor: Genex Cooperative. Amount: \$7,350.
- Dalton, J.C.**, and A. Ahmadzadeh. 2010. "Revisiting the importance of semen storage and handling: Characterization of the temperature gradient in the neck of modern liquid nitrogen tanks." Sponsor: Select Sires, Inc. Amount: \$2,000.
- Ahmadzadeh, A., **J.C. Dalton**, G. Sasser, and J. Howard. 2010. "Use of a new BioPRYN assay for early pregnancy detection and determination of pregnancy loss in dairy heifers synchronized with a modified 5-d CIDR-PGF<sub>2α</sub>-GnRH timed AI protocol." Sponsor: Select Sires, Inc. Amount: \$6,950.
- Dalton, J.C.**, R.J. Norell, and M. Chahine. 2010. "Idaho Dairy Extension Programs." Sponsor: United Dairymen of Idaho. Amount: \$8,000.
- Dalton, J.C.**, R.J. Norell, and M. Chahine. 2009. "Idaho Dairy Extension Programs." Sponsor: United Dairymen of Idaho. Amount: \$10,000.
- Ahmadzadeh, A., **J.C. Dalton**, and M.A. McGuire. 2008. "Investigation of the relationship between resumption of ovarian cyclicity, early postpartum estrous behavior and plasma nutritional markers in lactating dairy cows." Sponsor: Select Sires, Inc. Amount: \$4,000.

**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):**

**Grants and Contracts: Funded (Total: \$3,672,638) (cont'd):**

- Dalton, J.C.**, R.J. Norell, and M. Chahine. 2008. "Idaho Dairy Extension Programs." Sponsor: United Dairymen of Idaho. Amount: \$10,000.
- Norell, R.J., A.N. Hristov, **J.C. Dalton**, M. Chahine, and A. Leytem. 2008. "Educating Idaho dairy producers on the environmental and economic advantages of reducing whole-farm phosphorus surplus." Sponsor: United Dairymen of Idaho. Amount: \$8,600.
- Dalton, J.C.**, J.L.M. Vasconcelos, and L. Deragon. 2008. "Is fertility-associated antigen on bovine sperm collected from *Bos indicus* bulls related to fertility at first-service timed AI?" Sponsor: Alta Genetics Brazil, and Universidade Estadual Paulista – Botucatu, São Paulo, Brazil. Amount: \$1,000 (in-kind).
- Dalton, J.C.**, R. Chebel, and A. Ahmadzadeh. 2007. "Characterization of early postpartum estrous behavior in lactating cows using radiotelemetry in a large commercial dairy." Sponsor: Select Sires, Inc. Amount: \$2,900.
- Ahmadzadeh, A., and **J.C. Dalton**. 2007. "Influence of flunixin meglumine on prostaglandin metabolites and progesterone concentrations in lactating dairy cows." Sponsor: Schering-Plough Animal Health. Amount: \$4,110.
- McGuire, M.A., S. McGuire, A. Ahmadzadeh, **J.C. Dalton**, and M. Chahine. 2007. "Documentation of steroids in human and bovine milk." Sponsor: United Dairymen of Idaho. Amount: \$93,980.
- McGuire, M.A., and **J.C. Dalton**. 2007. "Evaluation of camelina meal as an ingredient for production of  $\omega$ -3 enriched milk in dairy cattle." Sponsor: United Dairymen of Idaho. Amount: \$43,850.
- McGuire, M.A., L.K. Fox, **J.C. Dalton**, and J.Y. Park. 2007. "Coagulase negative staphylococci: Really a minor mastitis pathogen?" Sponsor: United Dairymen of Idaho. Amount: \$62,196.
- Dalton, J.C.**, A. Ahmadzadeh, S. Etter, and K.S. Jensen. 2006. "A proposal to investigate the heat detection accuracy of herdsman-inseminators." Sponsor: ABS Global. Amount: \$3,000.
- Dalton, J.C.**, R. Norell, and M. Chahine. 2006. "Idaho Extension Dairy Programs." Sponsor: United Dairymen of Idaho. Amount: \$7,500.
- Ahmadzadeh, A., **J.C. Dalton**, and R.C. Chebel. 2006. "Effect of FSH treatment prior to initiation of Ovsynch in heifers: A preliminary study on follicular dynamics, incidence of ovulation, and synchronization rate." Sponsor: ABS Global. Amount: \$2,500.
- Ahola, J., B. Glaze, **J.C. Dalton**, M. Chahine, and R. Norell. 2006. "Development of Idaho's Beef Quality Assurance (BQA) Program." Sponsor: Idaho Beef Council. Amount: \$17,065.
- Dalton, J.C.**, R. Norell, and M. Chahine. 2005. "Idaho Dairy Extension Programs." Sponsor: United Dairymen of Idaho. Amount: \$10,000.
- Chebel, R.C., T.L. Ott, **J.C. Dalton**, and A. Ahmadzadeh. 2005. "Expression of Mx protein in peripheral blood mononuclear cells of dairy heifers: An early marker for failed pregnancies." Sponsor: Genex Cooperative, Inc. Amount: \$7,500.
- Chebel, R.C., T.L. Ott, **J.C. Dalton**, and A. Ahmadzadeh. 2005. "Expression of Mx protein in the peripheral blood mononuclear cells of dairy heifers: An early marker for failed pregnancies." Sponsors: University of Idaho Seed Grant Program and the Animal and Veterinary Science Department. Amount: \$10,000.

**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):**

**Grants and Contracts: Funded (Total: \$3,672,638) (cont'd):**

- Dalton, J.C.**, K.S. Jensen, and M. Chahine. 2005. "A Spanish language educational opportunity for Idaho dairy employees: Artificial insemination of dairy cattle." Sponsor: University of Idaho Extension Critical Issues Program. Amount: \$1,712.
- Brown, B., **J.C. Dalton**, G. Shewmaker, S. Jensen, and R. Johnson. 2005. "Southern Idaho P removal potential from manured fields." Sponsor: University of Idaho Extension Critical Issues Program. Amount: \$3,000.
- Chahine, M., **J.C. Dalton**, K.S. Jensen, and R.J. Norell. 2005. "Hispanic calf raising schools." Sponsor: University of Idaho Extension Topic Team Program. Amount: \$3,000.
- Dalton, J.C.**, R. Norell, and M. Chahine. 2004. "Idaho Dairy Extension Programs." Sponsor: United Dairymen of Idaho. Amount: \$10,000.
- Chahine, M., **J.C. Dalton**, S. Jensen, and R. Norell. 2004. "Hispanic milker's schools." Sponsor: University of Idaho Extension Critical Issues Program. Amount: \$3,000.
- Chahine, M., R. Norell, **J.C. Dalton**, S. Jensen, B. Ohlensehlen, and J. Packham. 2004. "Developing a web page for English and Spanish standard operating procedure (SOP) creation." Sponsor: University of Idaho Extension Topic Team Program. Amount: \$4,000.
- Brown, B., **J.C. Dalton**, M. Chahine, S. Jensen, B. Hazen, S. Salisbury. 2004. "Southern Idaho winter triticale forage P removal from manured fields." Sponsor: University of Idaho Extension Critical Issues Program. Amount: \$2,100.
- Rimbey, N., C. Hunt, **J.C. Dalton**, and S. Jensen. 2004. "Feasibility study for developing a local pressed beet pulp market." Sponsor: United States Department of Agriculture, Value-Added Agriculture Product Market Development Grant. Amount: \$91,200.
- Moore, D.A., J.H. Kirk, **J.C. Dalton**, M. Poe, H. Sullivan, T. Wright, D. Wilson, M. Payne, and C.F. Rodriguez. 2003. "Dairy beef en Español: Maximizing quality and profits." Sponsor: United States Department of Agriculture: Food Safety Inspection Service. Amount: \$27,018.
- Dalton, J.C.**, and R. Norell. 2003. "Idaho Dairy Extension Programs." Sponsor: United Dairymen of Idaho. Amount: \$9,000.
- Moore, D.A., **J.C. Dalton**, J.H. Kirk, and M.L. Poe. 2003. "Dairy beef en Español: El carne de vaca de la lechería." Sponsor: American Distance Education Consortium/United States Department of Agriculture Ag Telecommunications. Amount: \$25,000.
- Ahmadzadeh, A., and **J.C. Dalton**. 2002. "Incorporation of estradiol cypionate into a timed artificial insemination protocol to improve pregnancy rates in beef cattle." Sponsor: University of Idaho Seed Grant Program. Amount: \$6,716.
- Norell, R., and **J.C. Dalton**. 2002. "Idaho Dairy Extension Programs." Sponsor: United Dairymen of Idaho. Amount: \$11,100.
- Dalton, J.C.**, and A. Ahmadzadeh. 2002. "A proposal for continued research on the effect of elapsed time between initial thawing of multiple .5-mL semen straws and AI on conception rates in dairy cattle." Sponsor: Select Sires, Inc. Amount: \$3,000.

**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):****Grants and Contracts: Funded (Total: \$3,672,638) (cont'd):**

- Gray, W.C., J. Packham, S. Harrison, L. Brower, B. Hazen, B. Ohlensehlen, R. Garrard, S. Jensen, R. Norell, D. Falk, and **J. Dalton**. 2002. "Risk management education." Sponsor: The Western Center for Risk Management Education, Washington State University Cooperative Extension. Amount: \$6,200.
- Falk, D.E., R. Norell, and **J.C. Dalton**. 2001. "Idaho Dairy Extension Programs." Sponsor: United Dairymen of Idaho. Amount: \$16,000.
- Dalton, J.C.** 2001. "Farmer to Farmer Program" travel grant to share expertise as a dairy specialist in Quito, Tulcan, and Cuenca, Ecuador. Sponsor: Partners of the Americas/U.S. Agency for International Development. Amount: \$2,700.
- Dalton, J.C.**, and A. Ahmadzadeh. 2001. "A proposal to enhance the number of pregnancies achieved following a modified Select Synch protocol in lactating dairy cattle." Sponsor: Select Sires, Inc. Amount: \$6,500.
- Dalton, J.C.** 2001. "Ensuring a safe, wholesome, high quality milk supply through assessment of biosecurity risks on Idaho dairy farms." Sponsor: United Dairymen of Idaho. Amount: \$11,647.
- Falk, D.E., R. Norell, and **J.C. Dalton**. 2000. "Idaho Dairy Extension Programs." Sponsor: United Dairymen of Idaho. Amount: \$18,000.
- Dalton, J.C.**, and A. Ahmadzadeh. 2000. "Effect of elapsed time between initial thawing of multiple .5 mL semen straws and AI on conception rates in dairy cattle." Sponsor: Select Sires, Inc. Amount: \$2,000.
- Dalton, J.C.**, A. Ahmadzadeh, W. Cook, and S. Jensen. 2000. "Effect of elapsed time between initial thawing of multiple .5 mL semen straws and AI on conception rates in dairy cattle." Sponsor: University of Idaho Extension Critical Issues Program. Amount: \$1,605.

**Grants and Contracts: Pending****Grants and Contracts: Unfunded (Total: \$8,075,662)**

- Dalton, J.C.** 2016. "Dairy Extension Programs for SW Idaho." Sponsor: United Dairymen of Idaho. Amount: \$4,000.
- Ahmadzadeh, A., **J.C. Dalton**, and J. Spencer. 2016. "Does two injections of prostaglandin  $F_{2\alpha}$  cause complete luteolysis in beef cows synchronized with a 5-day CIDR Cosynch protocol?" Sponsor: Select Sires, Inc. Amount: \$5,200.
- Ahmadzadeh, A., **J.C. Dalton**, K. Carnahan, and J. Spencer. 2015. "Effect of prostaglandin  $F_{2\alpha}$  at the time of AI on incidence of ovulation in lactating dairy cows." Sponsor: Select Sires, Inc. Amount: \$5,200.
- Dalton, J.C.**, C. Claypool, and A. Ahmadzadeh. 2013. "Characterization of early postpartum progesterone in milk of dairy cows using a novel miniature mass spectrometer." Sponsor: Astrotech. Amount: \$4,200 (in-kind).
- Ahmadzadeh, A. and **J.C. Dalton**. 2013. Reproductive performance in dairy cows following CIDR-based resynchronization protocols: Influence of administration of GnRH at initiation of the protocol. Sponsor: Select Sires, Inc. Amount: \$6,480.
- Allen, A.J., J.R. Wenz, D.A. Moore, J. Gay, R. Newberry, J. Swain, and **J. Dalton**. 2012. "Assessing and mitigating risk of down cows on dairies." Sponsor: Washington State University. Amount: \$47,200.

**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):**

**Grants and Contracts: Unfunded (Total: \$8,075,662) (cont'd):**

- Dalton, J.C.**, K.S. Jensen, and M. Sieber. 2012. "Animal husbandry and artificial insemination training for smallholder farmers of dairy cattle in the Philippines." Sponsor: United States Department of Agriculture, Foreign Agriculture Service - Scientific Cooperation Research Program. Amount: \$39,995.
- Kasimanickam, R., P. Ye, J. Stevenson, J. Thundathil, J. Kastelic, **J. Dalton**, J.M. DeJarnette, V. Kasimanickam, and D. Moore. 2012. "Genomics- and proteomics-based 'systems biology' modeling of bovine spermatozoa." Sponsor: United States Department of Agriculture, National Institute of Food and Agriculture, Agriculture and Food Research Initiative. Amount: \$3,000,000.
- Dalton, J.C.**, and A. Ahmadzadeh. 2012. "Effect of simultaneous thawing of multiple 0.25-ml straws of sexed semen, sequence of insemination, and elapsed time from initiation of thawing to seminal deposition on conception rates in dairy heifers." Sponsor: Select Sires, Inc. Amount: \$7,600.
- Dalton, J.C.**, S. Etter, and K.S. Jensen. 2012. "Heat detection accuracy on large dairies." Sponsor: Select Sires, Inc. Amount: \$3,320.
- Dalton, J.C.**, R.J. Norell, and M. Chahine. 2011. "Idaho Dairy Extension Programs." Sponsor: United Dairywomen of Idaho. Amount: \$10,000.
- Dalton, J.C.**, and A. Ahmadzadeh. 2011. "Effect of simultaneous thawing of multiple 0.25-ml straws of sexed semen, sequence of insemination, and elapsed time from initiation of thawing to seminal deposition on conception rates in dairy heifers." Sponsor: Select Sires, Inc. Amount: \$7,680.
- Ahmadzadeh, A., **J.C. Dalton**, and K. Carnahan. 2011. Effect of prostaglandin F<sub>2α</sub> at the time of AI on incidence of ovulation in lactating dairy cows. Sponsor: Select Sires, Inc. Amount: \$5,030.
- Ireland, J.J., **J.C. Dalton**, J.R. Pursley, and R. Templeman. 2010. "Serum anti-mullerian hormone: A tool to predict fertility in dairy cattle." Sponsor: United States Department of Agriculture, National Institute of Food and Agriculture, Agriculture and Food Research Initiative. Amount: \$498,912.
- Dalton, J.C.**, J.L.M. Vasconcelos, L. Deragon, H. Carvalho, and A. Ahmadzadeh. 2010. "Fertility following fixed-time AI with frozen-thawed or fresh (liquid-stored) semen in synchronized beef cows." Sponsor: Alta Genetics Brazil. Amount: \$5,000 (in-kind).
- Ahmadzadeh, A., and **J.C. Dalton**. 2009. "Fertility of dairy heifers following synchronization with a modified 5-day CIDR-PGF<sub>2α</sub>-GnRH timed AI protocol with and without GnRH at CIDR insertion." Sponsor: Genex Cooperative. Amount: \$9,800.
- Ireland, J.J., **J.C. Dalton**, and J.R. Pursley. 2009. "Serum anti-mullerian hormone: A tool to predict fertility in dairy cattle." Sponsor: United States Department of Agriculture, National Institute of Food and Agriculture, Agriculture and Food Research Initiative. Amount: \$349,127.
- Dalton, J.C.**, A. Ahmadzadeh, and N. Michael. 2009. "Comparison of three heat detection aids on heat detection efficiency and conception risk in a large commercial dairy heifer feedlot." Sponsor: LA-CO Industries. Amount: \$10,491.
- Ahmadzadeh, A., and **J.C. Dalton**. 2009. "Fertility of dairy heifers following synchronization with a modified 5-day CIDR-PGF<sub>2α</sub>-GnRH timed AI protocol with and without GnRH at CIDR insertion." Sponsor: Select Sires, Inc. Amount: \$9,850.

**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):****Grants and Contracts: Unfunded (Total: \$8,075,662) (cont'd):**

- Chahine, M., **J.C. Dalton**, and B. Ozer. 2008. "The effect of an intravaginal progesterone insert (CIDR) on pregnancy rate/AI during an ovulation synchronization protocol in lactating dairy cows." Sponsor: Pfizer Animal Health. Amount: \$21,950.
- Dalton, J.C.**, J.L.M. Vasconcelos, L. Deragon, H. Carvalho, and A. Ahmadzadeh. 2008. "A proposal to investigate the feasibility of fresh (liquid-stored) semen usage in first service timed AI programs." Sponsor: Alta Genetics Brazil. Amount: \$5,000 (in-kind).
- Hristov, A.N., R.J. Norell, **J.C. Dalton**, M. Chahine, R. Sheffield, and M. de Haro Marti. 2007. "Reducing ammonia emissions from dairy manure through dietary manipulation." Sponsor: United Dairymen of Idaho. Amount: \$74,766.
- Ahmadzadeh, A., **J.C. Dalton**, and K. Carnahan. 2007. "Effect of high urea on uterine response to interferon tau." Sponsors: University of Idaho Seed Grant Program and the Animal and Veterinary Science Department. Amount: \$10,000.
- Ahmadzadeh, A., and **J.C. Dalton**. 2007. "Influence of flunixin meglumine on prostaglandin metabolites and progesterone concentrations in lactating dairy cows." Sponsor: Select Sires, Inc. Amount: \$3,800.
- Dalton, J.C.**, and A. Ahmadzadeh. 2007. "A proposal to investigate the feasibility of liquid-stored semen usage in first service timed AI programs." Sponsor: Select Sires, Inc. Amount: \$7,280.
- Hristov, A.N., M. Chahine, and **J.C. Dalton**. 2006. "Inclusion of peas in dairy cow diets - a field trial." Sponsor: Cool Season Food Legumes Program, United States Department of Agriculture, Cooperative State Research, Education and Extension Services. Amount: \$37,733.
- Ahmadzadeh, A., **J.C. Dalton**, and K. Carnahan. 2006. "Effect of high urea and low pH on uterine response to interferon tau." Sponsor: United States Department of Agriculture, National Research Initiative. Amount: \$99,981.
- Araji, J., A.N. Hristov, C. Schneider, J. Harrison, M. Gamroth, G. Shewmaker, **J.C. Dalton**, S. Fransen, and B. Glaze. 2006. "Analysis of market structure, market channels and pricing, and management system for organic dairy and beef farms in the Pacific Northwest." Sponsor: United States Department of Agriculture, Cooperative State Research, Education and Extension Services Integrated Organic Program. Amount: \$608,704.
- Hristov, A., R. Norell, **J.C. Dalton**, M. Chahine, and J. Araji. 2006. "Practicality of reducing phosphorus in the diet of lactating cows." Sponsor: United Dairymen of Idaho. Amount: \$63,252.
- Dalton, J.C.**, R. Norell, and M. Chahine. 2006. "Idaho Extension Dairy Programs." Sponsor: United Dairymen of Idaho. Amount: \$15,000.
- Glaze, J.B., J. Ahola, M. Chahine, **J.C. Dalton**, and R. Norell. 2006. "Enhancing dairy owners' and managers' awareness and knowledge of beef quality assurance (BQA) issues on Idaho dairies." Sponsor: United Dairymen of Idaho. Amount: \$11,857.
- Dalton, J.C.**, and A. Ahmadzadeh. 2006. "A proposal to investigate the feasibility of liquid-stored semen usage in first service timed AI programs." Sponsor: Select Sires, Inc. Amount: \$5,880.
- Ahmadzadeh, A., **J.C. Dalton**, and R.C. Chebel. 2006. "Effect of FSH treatment prior to initiation of Ovsynch in heifers: A preliminary study on follicular dynamics, incidence of ovulation, and synchronization rate." Sponsor: Select Sires, Inc. Amount: \$5,350.

**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):****Grants and Contracts: Unfunded (Total: \$8,075,662) (cont'd):**

- Araji, J., A.N. Hristov, C. Schneider, J. Harrison, M. Gamroth, G. Shewmaker, **J.C. Dalton**, S. Fransen, B. Glaze, and P. Ndegwa. 2005. "Analysis of market structure, market channels and pricing, and management systems for organic dairy and beef farms in the Pacific Northwest." Sponsor: United States Department of Agriculture Integrated Organic Program. Amount: \$611,377.
- Chebel, R.C., **J.C. Dalton**, and J.L. Stevenson. 2005. "Evaluation of the reproductive tract scoring system in predicting pubertal status of dairy heifers and evaluation of different treatment protocols for peripubertal dairy heifers." Sponsor: ABS Global. Amount: \$25,816.
- Ahmadzadeh, A., T.L. Ott, and **J.C. Dalton**. 2005. "Effect of high urea and low pH on uterine response to interferon tau." Sponsor: United States Department of Agriculture, Cooperative State, Research, Education, and Extension Service. Amount: \$99,985.
- Araji, J., A.N. Hristov, J. Foltz, M. Stockton, C. Schneider, J. Harrison, M. Gamroth, G. Shewmaker, J. Ellsworth, **J.C. Dalton**, R. Norell, J.D. Wulfhorst, and S. Fransen. 2005. "Comparative advantages of organic versus conventional dairy production in the Pacific Northwest." Sponsor: United States Department of Agriculture Integrated Organic Program. Amount: \$1,087,817.
- Silber, M., D. Mandler, A. Ahmadzadeh, **J.C. Dalton**, M.A. McGuire, and G. Burda. 2005. "A new opportunity to solving the problem of inaccurate estrous detection in dairy herds by electrochemical measurement of milk lactoperoxidase." Sponsor: The United States-Israel Binational Agricultural Research and Development Fund. Amount: \$175,000.
- Chebel, R.C., **J.C. Dalton**, J.E.P. Santos, R. Sartori, and A. Ahmadzadeh. 2005. "Effect of GnRH-CIDR-PGF<sub>2α</sub>-based synchronization protocols on follicle development, ovulation synchronization rate, and pregnancy rate of dairy heifers." Sponsor: ABS Global. Amount: \$19,120.
- Chebel, R.C., J.E.P. Santos, **J.C. Dalton**, R.S. Filho, and A. Ahmadzadeh. 2005. "Effect of time of initiation of GnRH-CIDR-PGF<sub>2α</sub> synchronization protocols on follicle development, ovulation synchronization rate, and pregnancy rate of dairy heifers." Sponsor: Select Sires, Inc. Amount: \$20,070.
- Ahmadzadeh, A., and **J.C. Dalton**. 2005. "Fertility of dairy heifers following synchronization with a CIDR-PGF<sub>2α</sub>-GnRH timed AI protocol with and without GnRH at CIDR insertion." Sponsor: Select Sires, Inc. Amount: \$12,200.
- Ahmadzadeh, A., **J.C. Dalton**, and R. Chebel. 2004. "Use of estradiol in a timed artificial insemination protocol: Effect on fertilization, embryo quality, accessory sperm, and luteal function." Sponsor: United States Department of Agriculture, Cooperative State, Research, Education, and Extension Service. Amount: \$99,928.
- Dalton, J.C.**, M. Chahine, and K.S. Jensen. 2004. "A Spanish language educational opportunity for Idaho dairy employees: Artificial insemination of dairy cattle (revised and resubmitted)." Sponsor: University of Idaho Diversity Initiatives Growth Grant. Amount: \$1,500.
- Dalton, J.C.**, M. Chahine, and K.S. Jensen. 2004. "A Spanish language educational opportunity for Idaho dairy employees: Artificial insemination of dairy cattle." Sponsor: University of Idaho Diversity Initiatives Growth Grant. Amount: \$2,997.
- Ahmadzadeh, A., and **J.C. Dalton**. 2004. "Estradiol cypionate in a timed artificial insemination protocol: Effect on conception rate, luteal function, and embryonic loss." Sponsor: United States Department of Agriculture, Cooperative State, Research, Education, and Extension Service. Amount: \$99,885.

**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):****Grants and Contracts: Unfunded (Total: \$8,075,662) (cont'd):**

- Ahmadzadeh, A., and **J.C. Dalton**. 2004. "Estradiol cypionate in a timed artificial insemination protocol: Effect on conception rate, luteal function, and embryonic loss." Sponsor: Select Sires, Inc. Amount: \$11,745.
- Ahmadzadeh, A., and **J.C. Dalton**. 2003. "Addition of estradiol cypionate to a GnRH-PGF<sub>2α</sub> - timed artificial insemination breeding protocol to improve pregnancy rates in dairy cattle." Sponsor: National Association of Animal Breeders. Amount: \$7,936.
- Dalton, J.C.**, and A. Ahmadzadeh. 2003. "Effect of semen packaged in 0.5 and 0.25-ml straws on conception rate of lactating dairy cows following AI by herdsman-inseminators or professional technicians." Sponsor: Genex Cooperative, Inc. Amount: \$6,233.
- Rimbey, N., C. Hunt, **J. Dalton**, and S. Jensen. 2003. "Feasibility study for developing a local pressed beet pulp market." Sponsor: United States Department of Agriculture, Federal State Marketing Improvement Program. Amount: \$91,200.
- Sheffield, R., R. Norell, and **J.C. Dalton**. 2002. "Evaluation of field-based odor assessment methods." Sponsor: United Dairymen of Idaho. Amount: \$18,000.
- Silber, M.L., D. Mandler, J.O. Schenk, I. Turyan, and **J.C. Dalton**. 2001. "Electroanalysis of lactoperoxidase in milk for the detection of estrus in dairy cattle." Sponsor: The United States-Israel Binational Agricultural Research and Development Fund. Amount: \$76,068.
- Dalton, J.C.**, and A. Ahmadzadeh. 2001. "Technology and training to improve dairy system-wide efficiency and profitability." Sponsor: United States Department of Agriculture, Cooperative State, Research, Education, and Extension Service. Amount: \$130,000.
- Ahmadzadeh, A., and **J.C. Dalton**. 2001. "Incorporation of estradiol cypionate into a timed insemination protocol to improve pregnancy rates in cattle." Sponsor: United States Department of Agriculture, Cooperative State, Research, Education, and Extension Service. Amount: \$214,155.
- Ahmadzadeh, A., and **J.C. Dalton**. 2001. "Swine zona pellucida (ZP) protein as a contraceptive vaccine to control fertility in feedlot heifers." Sponsor: University of Idaho Seed Grant Program. Amount: \$9,000.
- Ahmadzadeh, A., and **J.C. Dalton**. 2001. "Improvement of meat quality in feedlot heifers through the development of a contraceptive vaccine." Sponsor: Idaho Beef Council. Amount: \$17,840.
- Dalton, J.C.**, and A. Ahmadzadeh. 2001. "A proposal to enhance the efficiency of AI in lactating dairy cattle and heifers." Sponsor: Select Sires, Inc. Amount: \$12,900.
- Ahmadzadeh, A., and **J.C. Dalton**. 2000. "Incorporation of estradiol cypionate into a timed insemination protocol to improve pregnancy rates in cattle." Sponsor: United States Department of Agriculture, Cooperative State, Research, Education, and Extension Service. Amount: \$225,252.

**Honors and Awards:**

- Nominated for the DeLaval Dairy Extension Award (American Dairy Science Association), 2010, 2013, 2014
- American Distance Education Consortium Excellence in Distance Education Award-Honorable Mention for "Dairybeef: Maximizing Quality and Profits," (website and curricula), 2004

**SCHOLARSHIP ACCOMPLISHMENTS (cont'd):****Honors and Awards (cont'd):**

UI Extension Diversity Award for the “Spanish Language Milker’s School (Clase del Ordeño)” for Idaho dairy employees, 2004

Nominated for the National Annual Award for Diversity for “Spanish Language Educational Opportunities for Idaho Dairy Employees,” 2004

Nominated for the Virginia Tech College of Agriculture and Life Sciences Outstanding Graduate Teaching Assistant Award, 1997-98

Recipient of the Graduate Teaching Assistant Award presented by the Virginia Tech Dairy Club, 1995

Sigma Xi, The Scientific Research Society, 1995

Gamma Sigma Delta (International Agricultural Honor Society), 1993

**SERVICE:****Major Committee Assignments:**

## National:

National Association of Animal Breeders Technical Conference on Artificial Insemination and Reproduction Planning Committee, 2017 -  
 Beef Reproduction Task Force Board Member, 2017 -  
 Dairy Cattle Reproduction Council Nominations Committee (Chair), 2016  
 Dairy Cattle Reproduction Council Past-President, 2016  
 Dairy Cattle Reproduction Council President, 2015  
 Dairy Cattle Reproduction Council Vice President, 2014  
 Dairy Cattle Reproduction Council Annual Meeting Planning Committee, 2012, 2013 (Chair), 2014  
 Dairy Cattle Reproduction Council Board Member, 2008-11  
 Dairy Calf and Heifer Association Annual Meeting Planning Committee, 2008, 2011  
 American Dairy Science Association/American Society of Animal Science Extension Education Committee, 2007-2010, 2014 - 2016  
 National Mastitis Council Annual Meeting Planning Committee, 2007  
 National Mastitis Council Residue Avoidance Committee Chair, 2005-07  
 National Mastitis Council Residue Avoidance Committee member, 2001-04, 2011

## Regional:

Western Dairy Management Conference Planning Committee member, 2002-03, 2008-09, 2014-2015  
 Intermountain Nutrition Conference Planning Committee member, 2004-06  
 Tri-State Northwest Dairy Shortcourse Planning Committee member, 2001-07

## State:

Idaho State Department of Agriculture Animal Health Emergency Management Committee, 2001-05  
 Idaho State Department of Agriculture John’s Advisory Group, 2004, 2006-08

## University of Idaho:

UI Animal and Veterinary Science Promotion and Tenure Third-Year Review Committee Chair for Brenda Murdoch, Ph.D., 2017  
 UI Animal and Veterinary Science Physiologist faculty Search Committee, 2016  
 UI Animal and Veterinary Science Ruminant Nutrition faculty Search Committee, 2014

**SERVICE (cont'd):**

**Major Committee Assignments (cont'd):**

## University of Idaho: (cont'd)

UI College of Agricultural and Life Sciences Dean Search Advisory Committee, 2013  
 Promotion Committee member for John Hall, Ph.D., Superintendent, Nancy M. Cummings  
 Research, Extension, and Education Center, 2010  
 Promotion and Tenure Third-Year Review Committee for Wayne Ayers, DVM, Assistant  
 Professor–UI Caine Veterinary Teaching Center, 2010  
 Promotion and Tenure Third-Year Review Committee for Stephanie Etter, UI Extension Canyon  
 County Educator, 2007  
 UI Dairy Production Medicine Veterinarian Assistant Professor Search Committee Member,  
 2007-08  
 Mentoring Committee Member for Stephanie Etter, UI Extension Canyon County Educator,  
 2005-10  
 Canyon County Extension Educator-Livestock Search Committee member, 2004  
 Promotion and Tenure Committee member for Dirk Vanderwall, DVM, Ph.D., Assistant  
 Professor, Animal and Veterinary Science Department, 2004  
 UI Dairy Production Medicine Veterinarian (Theriogenology) Assistant Professor Search  
 Committee Co-Chairman, 2003-04  
 UI Dairy Production Medicine Veterinarian (Dairy Nutrition) Assistant Professor Search  
 Committee Co-Chairman, 2003  
 UI Extension Dairy Specialist Assistant Professor Search Committee member, 2003  
 Southwest Idaho Research and Extension Center Superintendent Search Committee member,  
 2003  
 UI Extension Beef Specialist Assistant Professor Search Committee member, 2001  
 Idaho Achieving Risk Management Success (ARMS) in Dairy Committee member, 2001-05  
 Promotion and Tenure Third Year Review Committee member for Scott Jensen, UI Extension  
 Canyon County Livestock Educator, 2002  
 UI Extension Dairy Topic Team member, 2001-

## University of Minnesota, Crookston:

Bush Faculty Development Grant Committee member, 1999-2000  
 Ag-Arama Committee member, 1999-2000  
 Faculty Development Committee member, 1999-2000  
 Equine Industries Management/Animal Industries Management Assistant Professor Search  
 Committee member, 2000

## Allied Industry:

XY Genetics, L.L.C., Scientific Advisory Committee member, 2000-01  
 Simplot Cattle Reproduction Group, Advisory Committee member, 2002-03

**Professional and Scholarly Organizations:**

Association for Applied Animal Andrology, 2008-  
 Center for Reproductive Biology, Washington State University and University of Idaho, 2000-  
 National Mastitis Council, 2001- 2013  
 National Association of Colleges and Teachers of Agriculture, 1999-2000  
 American Society of Animal Science, 1992-2003  
 American Dairy Science Association, 1990-  
 Dairy Cattle Reproduction Council, 2008-  
 International Embryo Technology Society, 2017-

**OUTREACH SERVICE:****Popular Press Publications:**

- Dalton, J.C.** 2017. Handling semen for optimal fertility. *Dairy Herd Management*. 54:11:24.
- Menegatti Zoca, S., B. Glaze, D.A. Moore and **J.C. Dalton**. 2016. Genetics and Genomics: An Introduction. *The Progressive Dairyman*. 30:17. Available at: <http://www.progressivedairy.com/topics/a-i-breeding/genetics-and-genomics-an-introduction>
- Dalton, J.C.**, and S. Linderoth. 2015. DCRC: Taking reproduction to the next level. *Bovine Veterinarian*. 1:7:34-35.
- Dalton, J.C.** 2015. Handle sexed semen with care to maximize heifer fertility. *The Progressive Dairyman-Canada*. 2:39-40. Available at: <http://www.progressivedairycanada.com/topics/a-i-breeding/handle-sexed-semen-with-care-to-maximize-heifer-fertility>
- Dalton, J.C.** 2014. Handle sexed semen with care to maximize heifer fertility. *The Progressive Dairyman*. 28:9:1-2.
- Dalton, J.C.** 2012. Confronting dairy beef residue issues. *Western Dairy Business*. 93:7:14-15.
- Dalton, J.C.** 2010. Taxa de Concepção do Touro (SCR): uma nova avaliação de fertilidade de touros (Sire conception rate: A new fertility evaluation of bulls), Dos Santos, R.M., and J.L.M. Vasconcelos (Eds.), *Milkpoint.com*, (Portuguese). Available at: <http://www.milkpoint.com.br/radar-tecnico/reproducao/taxa-de-concepcao-do-touro-scr-uma-nova-avaliacao-de-fertilidade-de-touros-64079n.aspx>
- Dalton, J.C.** 2010. Oportunidades e desafios do sêmen sexado (Opportunities and challenges with sexed semen), Dos Santos, R.M., and J.L.M. Vasconcelos (Eds.), *Milkpoint.com*, (Portuguese). Available at: <http://www.milkpoint.com.br/radar-tecnico/reproducao/opportunidades-e-desafios-do-semen-sexado-parte-1-61734n.aspx> (Part 1); <http://www.milkpoint.com.br/radar-tecnico/reproducao/opportunidades-e-desafios-do-semen-sexado-parte-2-62201n.aspx> (Part 2); <http://www.milkpoint.com.br/radar-tecnico/reproducao/opportunidades-e-desafios-do-semen-sexado-parte-3-62589n.aspx> (Part 3)
- Dalton, J.C.** 2010. Antibiotic residue avoidance in milk and dairy beef. *The Progressive Dairyman*. 24:17:1-2. Available at: [http://www.progressivedairy.com/index.php?option=com\\_content&view=article&id=5364:antibiotic-residue-avoidance-in-milk-and-dairy-beef&catid=49:management&Itemid=75](http://www.progressivedairy.com/index.php?option=com_content&view=article&id=5364:antibiotic-residue-avoidance-in-milk-and-dairy-beef&catid=49:management&Itemid=75)
- Dalton, J.C.** 2010. Average test-day somatic cell counts for western dairies. *The Progressive Dairyman*. 24:8:1-4. Available at: [http://www.progressivedairy.com/index.php?option=com\\_content&view=article&id=4476:average-test-day-somatic-cell-counts-for-western-dairies&catid=45:herd-health&Itemid=71](http://www.progressivedairy.com/index.php?option=com_content&view=article&id=4476:average-test-day-somatic-cell-counts-for-western-dairies&catid=45:herd-health&Itemid=71)
- Dalton, J.C.** 2010. Handle sexed semen with care. *Western Dairy Business*. 91:7:12-13. Available at: <http://dairywebmall.com/dbcpres/?p=6965>
- Dalton, J.C.**, and A. Ahmadzadeh. 2010. Heat detection accuracy and AI technician evaluation. *The Progressive Dairyman*. 24:3:69-70. Available at: [http://www.progressivedairy.com/index.php?option=com\\_content&view=article&id=3674:heat-detection-accuracy-and-ai-technician-evaluation&catid=47:ai-and-breeding&Itemid=73](http://www.progressivedairy.com/index.php?option=com_content&view=article&id=3674:heat-detection-accuracy-and-ai-technician-evaluation&catid=47:ai-and-breeding&Itemid=73)
- Dalton, J.C.** 2009. Six reasons not to use clean-up bulls to breed your heifers. Available at: <http://www.bullsemen.com/>

**OUTREACH SERVICE (cont'd):**

**Popular Press Publications (cont'd):**

- Dalton, J.C.,** R.C. Chebel, and J.L. Stevenson. 2009. Performance of heifers and economic outcomes following four reproductive protocols. *Western Dairy Business*. 90:7:12-13. Available at: <http://dairywebmall.com/dbcpres/?p=3426>
- Dalton, J.C.** 2009. Calf sex ratio following the use of conventional semen: What should you expect? *Western Dairy Business*. 90:2:19-20.
- Dalton, J.C.** 2008. Semen sexado: ¿Cómo afecta la fertilidad un aumento en el número de espermatozoides? (Sex-sorted semen: How does an increase in sperm numbers affect fertility?) *Info Holstein, Asociacion de Criadores de Ganado Holstein de Costa Rica*. Dec., pp. 19-21.
- Dalton, J.C.** 2008. Avoiding antibiotic residue in milk and dairy beef. *Western Dairy Business*. 89:11:28-31.
- Dalton, J.C.** 2008. Sex-sorted semen: How does an increase in sperm numbers affect fertility? *The Progressive Dairyman*. 22:12:29-31.
- Dalton, J.C.** 2008. Tips for semen storage and handling. *Hereford World*. 99:3:39.
- Dalton, J.C.** 2008. Sex-sorted semen: What researchers have learned. *Western Dairy Business*. 89:7:10-16.
- Dalton, J.C.** 2007. Update on antibiotic residue avoidance in milk and dairy beef. *The Progressive Dairyman*. 21:7:2-3.
- Dalton, J.C.** 2007. Are you satisfied with the fertility of your Holstein heifers? *The Progressive Dairyman*. 21:9:13-15.
- Dalton, J.C.** 2007. Parâmetros de qualidade do sêmen que estão associados à concepção em vacas leiteiras. (Semen quality parameters associated with fertility in dairy cattle.) Available at <http://milkpoint.com.br/>
- Dalton, J.C.** 2006. Ten critical control points of a milk and dairy beef residue prevention plan. *The Progressive Dairyman*. 20:7:38-39.
- Dalton, J.C.** 2006. A historical perspective of superovulation, embryo recovery and transfer. *The Progressive Dairyman*. 20:6:46-47.
- Dalton, J.C.** 2006. Manage heifers to calve at 24 months old or less. *The Progressive Dairyman*. 20:4:15-18.
- Dalton, J.C.** 2006. Antibiotic residue avoidance in milk and dairy beef. *The Progressive Dairyman*. 20:4:26-28.
- Dalton, J.C.** 2005. Do you manage dairy bulls to limit biosecurity and infertility risk? *The Progressive Dairyman*. 19:12:32.
- Dalton, J.C.** 2005. What's the economic difference between AI and natural service based on net merit? *The Progressive Dairyman*. 19:9:52-53.
- Dalton, J.C.** 2005. A historical perspective of AI. *The Progressive Dairyman*. 19:9:2-3.

**OUTREACH SERVICE (cont'd):****Popular Press Publications (cont'd):**

- Dalton, J.C.**, and A. Ahmadzadeh. 2005. Does high milk yield cause reduced reproductive performance in dairy cows? *The Progressive Dairyman*. 19:5:32-33.
- Dalton, J.C.** 2005. Sex-separated sperm: It's here! *The Progressive Dairyman*. 19:4:8-10.
- Dalton, J.C.**, and M.W. Overton. 2005. Pregnancy rate differences between natural service and AI. *The Progressive Dairyman*. 19:2:16-17.
- Dalton, J.C.**, A. Ahmadzadeh, and R. Chebel. 2004. Manejo reproductivo en grandes hatos lecheros. (Reproductive management in large dairies.) *Carta Ganadera*. 17:206:33-41.
- Dalton, J.C.** 2004. Is there a fertility advantage following semen deposition into the uterine horns? *The Progressive Dairyman*. 18:12:20-21.
- Dalton, J.C.**, and A. Ahmadzadeh. 2004. Does batch thawing of semen affect conception? *Hoard's Dairyman (Japan)*. 10:563-564.
- Dalton, J.C.**, and M.W. Overton. 2004. Living dangerously: Using bulls without breeding soundness evaluations. *The Progressive Dairyman*. 18:8:33-34.
- Dalton, J.C.**, and A. Ahmadzadeh. 2004. Does batch thawing of semen affect conception? *Hoard's Dairyman*. 149:11:410-411.
- Dalton, J.C.** 2004. Dairy management survey reveals growth opportunities for DHIA. *The Progressive Dairyman*. 18:5:48-49.
- Dalton, J.C.** 2004. AI vs. natural service: What's the difference? *Hoard's Dairyman (Japan)*. 4:196-197.
- Dalton, J.C.** 2004. Prevention, management, and humane euthanasia of non-ambulatory cattle. *The Progressive Dairyman*. 18:2:27-28.
- Dalton, J.C.** 2004. AI vs. natural service: What's the difference? *Hoard's Dairyman*. 149:1:13.
- Dalton, J.C.** 2003. Is Lepto hardjo bovis lurking in your herd? *The Progressive Dairyman*. 17:12: 34-35.
- Dalton, J.C.**, and A. Ahmadzadeh. 2003. Are you familiar with the pharmaceuticals used in Ovsynch and Heatsynch? *The Progressive Dairyman*. 17:9:33-35.
- Dalton, J.C.** 2003. Heat stress and natural service dairy bulls. *The Progressive Dairyman*. 17:6:28-30.
- Dalton, J.C.** 2003. Inseminácia versus prirodzená plemenitba (AI vs. natural service). Miniinfo-Slovenská Holsteinská Asociácia (Slovakian Holstein Association). April, pp.14-15.
- Dalton, J.C.** 2003. Cottonseed products, gossypol, and natural service bulls. *The Progressive Dairyman*. 17:5:28-29.
- Dalton, J.C.** 2003. The Central European Dairy Industry. *The Progressive Dairyman*. 17:3:48-54.
- Dalton, J.C.** 2002. Six reasons not to use clean-up bulls to breed your heifers. *Horizons (Genex Cooperative, Inc.)* 8:5:20-21.
- Dalton, J.C.** 2002. The CIDR: A new tool to help increase the reproductive success of your heifers. *The Progressive Dairyman*. 16:10:23-25.

**OUTREACH SERVICE (cont'd):**

**Popular Press Publications (cont'd):**

- Dalton, J.C.** 2002. Are you satisfied with the average age at first calving in your herd? *The Progressive Dairyman*. 16:8:34-35.
- Dalton, J.C.** 2002. Mating heifers with natural service bulls: A recipe for disaster. *The Progressive Dairyman*. 16:6:48-49.
- Dalton, J.C.** 2002. Focus on heat detection to improve reproductive performance of your herd. *The Progressive Dairyman*. 16:3:45-50.
- Dalton, J.C.** 2001. Update on sex-separated sperm. *The Progressive Dairyman*. 15:12:51-53.
- Dalton, J.C.** 2001. Dairy farming in Ecuador. *The Progressive Dairyman*. 15:9:66-67.
- Dalton, J.C.** 2001. Measuring reproductive performance. *The Progressive Dairyman*. 15:6:29-34.
- Dalton, J.C.** 2001. What's the value of the natural service bull? *The Progressive Dairyman*. 15:3:49-50.
- Dalton, J.C.** 2000. AI vs. natural service: What's the economic difference? *The Progressive Dairyman*. 14:12:33-34.

**Popular Press Publications (Inserts):**

- C.R. Johnson, J. Spencer, A. Ahmadzadeh, and **J.C. Dalton**. 2012. How soon after calving do cows show heat and evidence of first ovulation? *Western Dairy News*. In: *Hoard's Dairyman*. 157:20:W175-176.
- Dalton, J.C.** 2011. Develop and manage heifers with focus on age at conception. *Western Dairy News*. In: *Hoard's Dairyman*. 156:20:W161-162.
- Dalton, J.C.**, and A. Ahmadzadeh. 2009. Use caution and logic when evaluating AI technicians. *Western Dairy News*. Volume 9, No. 8. In: *Hoard's Dairyman*. 154:16:W127-128.
- Dalton, J.C.** 2007. Comparing gender-selected AI semen pregnancy results in heifers and in cows. *Western Dairy News*. Volume 7, No. 8. In: *Hoard's Dairyman*. 152:16:W133-134.
- Dalton, J.C.** 2006. Semen storage and handling for artificial insemination. *Western Dairy News*. Volume 6, No. 12. In: *Hoard's Dairyman*. 151:20:W209.
- Dalton, J.C.** 2006. Antibiotic residue prevention in milk and dairy beef. *Western Dairy News*. Volume 6, No. 4. In: *Hoard's Dairyman*. 151:8:W79.
- Dalton, J.C.** and R. Norell. 2005. Pressed sugar beet pulp for dairy cattle rations. *Western Dairy News*. Volume 5, No. 11. In: *Hoard's Dairyman*. 150:19:194.
- Dalton, J.C.** and M.W. Overton. 2004. Don't use bulls without breeding soundness evaluations. *Western Dairy News*. Volume 4, No. 7. In: *Hoard's Dairyman*. 149:16:115.
- Dalton, J.C.** 2003. The CIDR: Now approved for lactating cattle. *Western Dairy News*. Volume 3, No. 10. In: *Western Dairy Business*. 84:11:36.
- Dalton, J.C.** 2003. Cottonseed products and natural service bulls. *Western Dairy News*. Volume 3, No. 8. In: *Western Dairy Business*. 84:9:49.

**OUTREACH SERVICE (cont'd):**

**Popular Press Publications (Inserts) (cont'd):**

- Dalton, J. C.** 2002. The CIDR: A new estrous synchronization tool. *Western Dairy News*. Volume 2, No. 10. In: *Western Dairy Business*. 83:11:16.
- Dalton, J.C.** 2002. Tips to decrease the average age at first calving in your herd. *Western Dairy News*. Volume 2, No.9. In: *Western Dairy Business*. 83:10:19.
- Dalton, J.C.** 2002. Six reasons why clean-up bulls should not be used to breed your heifers. *Western Dairy News*. Volume 2, No. 7. In: *Western Dairy Business*. 83:8:17.
- Dalton, J.C.** 2002. Semen Handling: The forgotten link in reproductive efficiency. *Western Dairy News*. Volume 2, No. 2. In: *Western Dairy Business*. 83:3:22.

**Newsletters and Technical Bulletins:**

- Dalton, J.C.,** and D.A. Moore. 2017. Research and Extension Highlight: Dairy cattle genomics and fertility. *UI Extension Dairy Update*, p. 1.
- Dalton, J.C.** 2017. Handle semen for optimal fertility. *Dairy Herd Management*. Available at: <https://www.dairyherd.com/article/handle-semen-optimal-fertility>
- Moore, D.A., and **J.C. Dalton**. 2017. The genomics of fertility and health traits. *Dairy Herd Management*. Available at: <http://www.dairyherd.com/advice-and-tips/reproduction/genomics-fertility-and-health-traits>
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- Dalton, J.C.** 2012. UI Dairy Extension Update. *Idaho Dairy Focus* (April), p. 5.
- Dalton, J.C.** 2010. Cuidados no manuseio do sêmen sexado (Handle sexed semen with care). *ABS Global Techline (Portuguese)*. Available at: [http://www.abspecplan.com.br/upload/library/Cuidados\\_Semen-sexado\\_PT.pdf](http://www.abspecplan.com.br/upload/library/Cuidados_Semen-sexado_PT.pdf)
- Dalton, J.C.** 2010. Maneje el semen sexado con cuidado (Handle sexed semen with care). *ABS Global Techline (Spanish)*. Available at: [http://www.absamericalatina.com/recursos/\\_pdf/maneje.pdf](http://www.absamericalatina.com/recursos/_pdf/maneje.pdf)
- Dalton, J.C.** 2010. Proporção de sexos ao parto quando se utiliza sêmen convencional: O que se deve esperar? (Calf sex ratio following the use of conventional semen: What should you expect?) *ABS Global Techline (Portuguese)*. Available at: [http://www.abspecplan.com.br/upload/library/Proporcao\\_de\\_sexos.pdf](http://www.abspecplan.com.br/upload/library/Proporcao_de_sexos.pdf)
- Dalton, J.C.** 2010. Proporción de sexos al parto cuando se usa semen convencional: ¿Que debo esperar? (Calf sex ratio following the use of conventional semen: What should you expect?) *ABS Global Techline (Spanish)*. Available at: [http://www.absamericalatina.com/recursos/\\_pdf/proporjd.pdf](http://www.absamericalatina.com/recursos/_pdf/proporjd.pdf)
- Dalton, J.C.** 2010. Oportunidades e desafios do sêmen sexado (Opportunities and challenges with sexed semen), Dos Santos, R.M., and J.L.M. Vasconcelos (Eds.), *Biotec-Reprodução Animal*. (Portuguese). Available at: <http://marcosveterinario.blogspot.com/2010/04/oportunidades-e-desafios-do-semen.html> (Part 1); [http://marcosveterinario.blogspot.com/2010/04/oportunidades-e-desafios-do-semen\\_23.html](http://marcosveterinario.blogspot.com/2010/04/oportunidades-e-desafios-do-semen_23.html) (Part 2); <http://marcosveterinario.blogspot.com/2010/05/oportunidades-e-desafios-do-semen.html> (Part 3)

**OUTREACH SERVICE (cont'd):****Newsletters and Technical Bulletins (cont'd):**

- Dalton, J.C.** 2009. Semen sexado: ¿Cómo afecta la fertilidad un aumento en el número de espermatozoides? (Sex-sorted semen: How does an increase in sperm numbers affect fertility?) *ABS México Artículos Técnicos*. Available at: [http://www.absmexico.com.mx/articulos\\_tecnicos/docs/comoafec.pdf](http://www.absmexico.com.mx/articulos_tecnicos/docs/comoafec.pdf)
- Brown, B., **J.C. Dalton**, M. Chahine, B. Hazen, K.S. Jensen, and S. Etter. 2009. Phosphorus removal with triticale in manured fields. *University of Idaho Extension Nutrient Digest*. Volume 1, No. 3.
- Dalton, J.C.** 2008. Sex-sorted semen: Fertility results in heifers and lactating cows. *Utah State University Extension Beef Veterinary Newsletter*, pp. 3-5.
- Bethausser, J., and **J.C. Dalton** (Editors). 2008. Limitation of field evaluation for semen quality (Adapted from: Proc. Nat'l. Assoc. Anim. Breeders 21<sup>st</sup> Tech. Conf. on Artif. Insem. and Reprod., pp. 82-84.) *ABS Global Techline*.
- Bethausser, J., and **J.C. Dalton** (Editors). 2008. Limitation of field evaluation for semen quality (Adapted from: Proc. Nat'l. Assoc. Anim. Breeders 21<sup>st</sup> Tech. Conf. on Artif. Insem. and Reprod., pp. 82-84.) *ABS Global Technical Services Newsletter*, p. 1.
- Dalton, J.C.** 2008. Cuidado de semen: Adecuado manejo de semen = mas gestaciones. (Proper semen handling = more pregnancies). *Semex Repromax Guia Para El Éxito Reproductivo*, pp. 19-20.
- Dalton, J.C.** 2006. Antibiotic residues in milk are decreasing. *NMC Udder Topics Newsletter*. Volume 29, No. 6.
- Dalton, J.C.**, A. Ahmadzadeh, R. Chebel, and M. Overton. 2006. Cómo elevar al máximo el desempeño reproductivo en los bovinos lecheros de alta producción. (Maximizing reproductive performance of high producing dairy cattle). *Boletín informativo CIGAL*. No. 2.
- Dalton, J.C.** 2006. Antibiotic residues in milk are decreasing. *NMC Udder Topics Newsletter*. Volume 29, No. 6.
- Dalton, J.C.**, A. Ahmadzadeh, R. Chebel, and M. Overton. 2006. Cómo elevar al máximo el desempeño reproductivo en los bovinos lecheros de alta producción. (Maximizing reproductive performance of high producing dairy cattle). *Boletín informativo CIGAL*. No. 2.
- Dalton, J.C.**, and R. Norell. 2003. Pressed sugar beet pulp for dairy rations. *University of Idaho Extension Focus*. Volume 17, No. 5.
- Dalton, J.C.** 2002. Semen Handling: The forgotten link in reproductive efficiency. *Utah State University Dairy Newsletter*. Volume 25, No. 2.

#### Interview Articles:

- It's in the blood. *UI College of Agriculture and Life Sciences Programs and People*. Winter 2014. Available at: <http://www.cals.uidaho.edu/edComm/winter2014.asp>
- Optimizing heifer reproduction. *CowManagement*. December, 2011. 3:6:22-23. Available at: [http://issuu.com/crv-publishers/docs/cmus\\_dec\\_2011?mode=window&pageNumber=1](http://issuu.com/crv-publishers/docs/cmus_dec_2011?mode=window&pageNumber=1)
- Develop those heifers on time. *Dairy Herd Network Newsletter*. December 1, 2011. Available at: <http://www.dairyherd.com/e-newsletters/dairy-daily/Develop-those-heifers-on-time-134754448.html>

#### OUTREACH SERVICE (cont'd):

##### Interview Articles (cont'd):

- Researcher looks at heat detection accuracy. *Ag Weekly*. November 4, 2010.
- Achieve reproductive success in the real world. *The Progressive Dairyman*. 2009. 23:4:3-6.
- Achieving reproductive success in the real world. *ABS Breeders Journal*. 2008. 21:1:2-5.
- Achieving reproductive success in the real world. *ABS Global Technical Services Newsletter*. 2008. 1-4.
- Unfit for duty. *Dairy Today*. 2005. 20:9:7-8.
- UI dairy classes presented to 260 Hispanics—In their own language! *UI Extension Education Trends*. 2005. 7.
- Preparing for disaster: Emergencies happen—and not just to others. *Dairy Today*. 2005. 20:2:28-29.
- Biosecurity: Keeping Idaho dairies mad cow free. *UI Extension Education Trends*. 2004. 1.
- Pursuing pressed pulp. *Idaho Dairy Monthly*. 2004. 4:3:9.
- New BSE rules bring the unexpected. *Idaho Dairy Monthly*. 2004. 4:3:7.
- Composting comes of age. *Hoard's Dairyman*. 2003. 148:11:W-90-91.
- Get ready for better times. *Dairy Profit Weekly*. 2003. 14:10:1.
- Reproduction: Do not use clean-up bulls with heifers. *Dairy Herd Management*. 2003. 40:1:8.
- Reproduction: These factors optimize fertility. *Dairy Herd Management*. 2002. 39:2:12.
- How the west is winning. *Western Dairy Business*. 2002. 83:10:26-30.
- Ask Our Expert: Reproduction. *Western Dairy Business*. 2002. 83:3:56.
- Where should you build your next 2,500 cow dairy? Idaho. *Elite Producer*. October 2002:2-6.

### **Workshops, Seminars, and Contests Organized:**

#### University of Idaho:

- Practical Genomics for the ET Practitioner International Embryo Technology Society Innovation Workshop, Orlando, FL (Co-organized with P.J. Hansen) October, 2017
- Dairy Genomics Workshop (PA, NY, VA) in support of the outreach component of the USDA-NIFA-AFRI funded grant “Improving fertility of dairy cattle using translational genomics” July-August, 2017
- AI Certification Course, in collaboration with Select Sires, Inc., and Lincoln Memorial University College of Veterinary Medicine SCAABP, Harrogate, TN, April, 2017
- Dairy Genomics Workshop (ID, WA, TX, FL, CA, and WI) in support of the outreach component of the USDA-NIFA-AFRI funded grant “Improving fertility of dairy cattle using translational genomics” December, 2016
- Dairy Cattle Genomics: Animal Health and Fertility Pre-Conference Seminar prior to the American Association of Bovine Practitioners Annual Conference, Charlotte, NC, (Co-organized with Dale Moore) September, 2016

**OUTREACH SERVICE (cont'd):****Workshops, Seminars, and Contests Organized (cont'd):**

- Genomics Focus Group with dairy producers during World Ag Expo (Tulare, CA: 2014) and World Dairy Expo (Madison, WI: 2013) in support of the outreach component of the USDA-NIFA-AFRI funded grant "Improving fertility of dairy cattle using translational genomics"
- Dairy Genomics Workshop (2014: ID, WA, TX, and FL; 2015: CA, WI) in support of the outreach component of the USDA-NIFA-AFRI funded grant "Improving fertility of dairy cattle using translational genomics"
- Dairy Cattle Reproduction Council Synchronization Protocol Handout meeting, St. Paul, Minnesota, 2010
- AI Certification Course, in collaboration with Select Sires, Inc., and Ross University School of Veterinary Medicine SCAABP, Basseterre, St. Kitts, West Indies, January and May, 2010; March, July, and November, 2011; March, July, and November, 2012; March, July and November, 2013; March, July, and November, 2014; March, July 2015, March, July, November, 2016; March, July, 2017
- Extension Milking School, in collaboration with The International Rescue Committee, Caldwell, ID, February, March, June, and September, 2009
- ABS Global-University of Idaho-Washington State University Conference, Moscow, ID, 2008
- Alta Genetics AI Technician Re-Training School, Caldwell, ID, 2008 and 2011; Twin Falls, ID, 2011
- Extension Spanish and English language AI School, Twin Falls, ID, 2007-2017
- ABS Global Professional AI Technician Re-Training Session, Caldwell, ID, 2006
- Extension Spanish language AI School, Caldwell and Twin Falls, ID, 2006
- Extension Milking Schools, Caldwell, ID, 2001-06
- Extension Milking Schools, Twin Falls, Preston and Blackfoot, ID, 2002-03
- Extension "Dairy Cattle Hoof Health Seminars" presented in Nampa, Jerome, and Preston, ID, 2001
- University of Minnesota, Crookston:  
Faculty chair of the Animal Science Management Contest at the National Association of Colleges and Teachers of Agriculture Contest, April, 2000

**Tours Organized:**

- University of Idaho:
- Dr. John Middleton, candidate for UI AVS Department Head position, August, 2017 (Visited Box Canyon Dairy, Wendell)
- Dr. Anne Laarman, Assistant Professor, Animal and Veterinary Science Department, October, 2015 (Visited Beranna Dairy, Caldwell)
- Dr. Pedram Rezamand, candidate for Dairy Nutrition position, July, 2008 (Visited Beranna Dairy, Caldwell)
- Tri-State Northwest Dairy Shortcourse Conference Tour, January, 2008 (Visited Stewart Farms, Inc., Nampa)
- Dr. Glen Broderick, Research Dairy Scientist-Nutrition, October, 2005 (Visited Beranna Dairy, Caldwell)
- Dr. Jakob Scherzer, candidate for Production Medicine Veterinarian-Therigenology position, July, 2003 (Visited Stewart Farms, Inc., Nampa; Beranna Dairy, Caldwell; Moo-riah Dairy, Melba; M/M Feedlot, Parma)
- Ms. Kendra Olberholser, undergraduate student, Ohio Agricultural Technical Institute, July, 2002 (Visited Beranna Dairy, Caldwell; Moo-riah Dairy, Melba; Kasper Dairy, Melba; Walking J Dairy, Meridian)

**OUTREACH SERVICE (cont'd):****Tours Organized (cont'd):**

## University of Idaho (cont'd):

- Mr. Todd Fichette, Editor, Western Dairy Business Magazine, March 2002 (Visited Stewart Farms, Inc., Nampa; Si-Ellen Dairy, Jerome)
- Ms. Roberta Crill, Cornell University Extension, July 2001 (Visited Beranna Dairy, Caldwell; Nederend Dairy, Marsing; Mirada Farms, Marsing)
- Mr. Mel DeJarnette, Reproductive Specialist, Select Sires, Inc., March 2001 (Visited Stewart Farms, Inc., Nampa)
- Ms. Annette Buyserie, potential graduate student, October 2000 (Visited Stewart Farms, Inc., Nampa; VanEss Dairy, Middleton)

**Other Service Activities:**

## University of Idaho:

- Dairy Cattle Reproduction Council Annual Conference session chair, 2013, 2017
- Coach, Science Olympiad Disease Detectives, St. Paul's Catholic School, Nampa, 2013, 2014, 2015, 2017
- American Dairy Science Association/American Society of Animal Science Joint Annual Meeting Extension Symposium Session Chair, 2016
- Reviewer, Idaho State Department of Agriculture Artificial Insemination Exam, 2013
- Wiley Research Symposium Judge, Graduate and Professional Students Association, Washington State University, 2013
- Treasure Valley Dairy Replacement Heifer Program Auction bid/runner volunteer, 2011
- American Dairy Science Association – Student Affiliate Division Career Roundtable participant, 2010
- American Dairy Science Association-Canadian Society of Animal Science-American Society of Animal Science Annual Meeting Physiology, Management, and the Environment Beef session chair, 2009
- Western Dairy Management Conference session chair, 2003, 2009, 2015
- National Mastitis Council Annual Meeting Pre-Conference session chair, 2008
- Western Idaho Fair 4-H Interview Judge, 2007
- Tri-State Northwest Dairy Shortcourse Graduate Student Poster competition judge, 2004, 2006
- Tri-State Northwest Dairy Shortcourse session chair, 2004
- Magic Valley Legislative Tour ambassador, 2003
- American Dairy Science Association – Student Affiliate Division annual report and tabletop display judge, 2003-04
- Gem-Boise County Fair Dairy Cattle Show Judge, 2001-05
- Gem-Boise County Fair Dairy Showmanship Judge, 2001-05
- American Dairy Science Association – Student Affiliate Division oral paper presentation judge, 2002, 2012
- American Dairy Science Association – Student Affiliate Division tabletop display judge, 2001
- Ag-Arama Master of Ceremonies, University of Minnesota, Crookston, 2001
- Ada County Farm Bureau Speech Contest judge, 2000-02

## University of Minnesota, Crookston:

- Faculty advisor to the Animal Science Association, 1999

## Virginia Tech:

- American Society of Animal Science Student Focus Group, 1999
- 4-H Dairy Quiz Bowl judge, 1997
- Graduate student representative to the annual departmental faculty retreat, 1995
- Academic Quadrathlon judge, 1993-95

**OUTREACH SERVICE (cont'd):****Other Service Activities (cont'd)**

Utah State University:

Animal, Dairy, and Veterinary Sciences Graduate Student Senate representative, 1990

**PROFESSIONAL DEVELOPMENT:****International:**

International Congress on Animal Reproduction, Tours, France, 2016

Association for Applied Animal Andrology, Tours, France, 2016

New Science, New Practices International Cow Fertility Conference, Westport, Ireland, 2014

16<sup>th</sup> Día Internacional del Ganadero Lechero, Delicias, Chihuahua, México, 2013

10<sup>th</sup> International Symposium on Animal Reproduction, Córdoba, Argentina, 2013

International Congress on Animal Reproduction, Vancouver, British Columbia, Canada, 2012

Association for Applied Animal Andrology, Vancouver, British Columbia, Canada, 2012

29<sup>th</sup> Western Canadian Dairy Seminar, Red Deer, Alberta, Canada, 2011

4<sup>th</sup> International Symposium on Applied Animal Reproduction, Londrina, Paraná, Brazil, 2010

XIV Course on New Approaches in Bovine Production and Reproduction, Uberlandia, Minas Gerais, Brazil, 2010

11<sup>th</sup> Día Internacional del Ganadero Lechero, Delicias, Chihuahua, México, 2008

XI Course on New Approaches in Bovine Production and Reproduction, Uberlandia, Minas Gerais, Brazil, 2007

Conferencia Internacional Sobre Ganado Lechero, Guadalajara, México, 2005, 2008

Expo Leche and V World Dairy Congress, Acapulco, México, 2004

British Society of Animal Science Occasional Meeting on Fertility in the High-Producing Dairy Cow Galway, Ireland, 1999

**National:**

American Association of Bovine Practitioners Annual Meeting  
New Orleans, Louisiana, 2015

American Dairy Science Association Large Herd Conference  
Oak Brook, Illinois, 2016

American Dairy Science Association Annual Meetings  
Pittsburgh, Pennsylvania, 2017

Salt Lake City, Utah, 2016

Orlando, Florida, 2015

Kansas City, Kansas, 2014

Phoenix, Arizona, 2012

New Orleans, Louisiana, 2011

Denver, Colorado, 2010

Montréal, Québec, Canada, 2009

San Antonio, Texas, 2007

Minneapolis, Minnesota, 2006

Cincinnati, Ohio, 2005

St. Louis, Missouri, 2004

Phoenix, Arizona, 2003

Québec City, Québec, Canada, 2002

Indianapolis, Indiana, 2001

Baltimore, Maryland, 2000

Memphis, Tennessee, 1999

Denver, Colorado, 1998

Minneapolis, Minnesota, 1994

College Park, Maryland, 1993

Columbus, Ohio, 1992

**PROFESSIONAL DEVELOPMENT (cont'd):****National (cont'd):**

- American Dairy Science Association Annual Meetings (cont'd)
  - Logan, Utah, 1991
  - Raleigh, North Carolina, 1990
- American Dairy Science Association Discover Conference “Biology of the Calf: Birth to four months”
  - Roanoke, Virginia, 2008
- American Society of Animal Science Annual Meetings:
  - Rapid City, South Dakota, 1996
  - Pittsburgh, Pennsylvania, 1992
- Applied Reproductive Strategies in Beef Cattle
  - Manhattan, Kansas, 2017
  - Des Moines, Iowa, 2016
  - Sacramento, California, 2015
  - Stillwater, Oklahoma, 2014
  - Sioux Falls, South Dakota, 2012
  - Boise, Idaho, 2011
  - San Antonio, Texas, 2010
  - Rapid City, South Dakota, 2006
  - St. Joseph, Missouri, 2006
  - Lexington, Kentucky, 2005
- Dairy Calf and Heifer Association Annual Meeting
  - Madison, Wisconsin, 2017
  - Visalia, California, 2006, 2012
- Dairy Cattle Reproduction Council
  - Reno, Nevada, 2017
  - Columbus, Ohio, 2016
  - Buffalo, New York, 2015
  - Salt Lake City, Utah, 2014
  - Indianapolis, Indiana, 2013
  - Kansas City, Missouri, 2011
  - St. Paul, Minnesota, 2010
  - Boise, Idaho, 2009
  - Denver, Colorado, 2007
- Elanco Animal Health Immunology and the Transition Cow Conference
  - Chicago, Illinois, 2012
- National Mastitis Council
  - Arlington, Virginia, 2011
  - New Orleans, Louisiana, 2008
  - San Antonio, Texas, 2007
  - Tampa, Florida, 2006
  - Orlando, Florida, 2002, 2005
  - Charlotte, North Carolina, 2004
  - Fort Worth, Texas, 2003
  - Reno, Nevada, 2001
- National Association of Animal Breeders Biennial Technical Conference on AI and Reproduction
  - Milwaukee, Wisconsin, 1992, 1994, 1996, 2002, 2004, 2008, 2010, 2012, 2014
  - Madison, Wisconsin, 1998
- Select Sires “Estrous Synchronization Think Tank”
  - Porto Seguro, Bahia, Brazil, 2016
  - Columbus, Ohio, 2002, 2003, 2005, 2008, 2009, 2011, 2012, 2014, 2015
  - Staunton, Virginia 2013
- Select Sires “Large Herd Think Tank”
  - Chicago, Illinois, 2003

**PROFESSIONAL DEVELOPMENT (cont'd):****National (cont'd):**

- Symposium on the Nutrient Requirements of Dairy Cattle, 7<sup>th</sup> revised edition  
Pullman, Washington, 2001
- Western Dairy Management Conference  
Reno, Nevada, 2003, 2005, 2009, 2013, 2015, 2017  
Las Vegas, Nevada, 2001

**Regional:**

- DHI-Provo Annual Conference  
Provo, Utah, 2009  
Monterey, California, 2007  
Sacramento, California, 2003  
Reno, Nevada, 2001, 2002  
Park City, Utah, 2000
- Western Section of the American Society of Animal Science  
Laramie, Wyoming, 2008
- Intermountain Nutrition Conference  
Salt Lake City, Utah, 2003, 2005
- Professional Dairy Heifer Grower's Association  
Pendleton, Oregon, 2001  
Boise, Idaho, 2000
- Tri-State Northwest Dairy Shortcourse  
Boise, Idaho, 2002, 2004, 2008  
Portland, Oregon, 2006  
Pasco, Washington, 2003  
Skamania, Washington, 2001
- Washington State Veterinary Medical Association Annual Convention  
Yakima, Washington, 2004

**State:**

- Chicago Mercantile Exchange/DTN Risk Management Seminar  
Boise, Idaho, 2004
- Dairy Comp 305 Update, Meridian, Idaho, 2014
- Partners of the Americas (Idaho Chapter) Annual Conference  
Ketchum, Idaho, 2001
- PerforMix Economic and Nutrition Symposium  
Nampa, Idaho, 2004
- United Dairymen of Idaho Annual Conference  
Boise, Idaho, 2002, 2003, 2006, 2008, 2012, 2015  
Pocatello, Idaho, 2001  
Sun Valley, Idaho, 2000
- University of Idaho-Washington State University Center for Reproductive Biology Annual Retreat  
Worley, Idaho, 2001, 2002
- University of Idaho Extension Annual Meeting  
Idaho Falls, Idaho 2006  
Moscow, Idaho, 2002, 2005  
Boise, Idaho, 2004, 2012