

CURRICULUM VITAE

University of Idaho

NAME: Dalton, Joseph C.

DATE: December 17, 2019

RANK OR TITLE: Professor, Extension Dairy Specialist

DEPARTMENT: Animal and Veterinary Science

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Caldwell, ID 83605

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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:

Washington State University, Adjunct Faculty, Reproductive Biology, 2018 -

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

EXPERIENCE (cont'd):

Consulting:

US Livestock Genetics Export, USDA FAS Agricultural Trade Mission, Ho Chi Minh City, Vietnam, October 2019
Dairy Australia, Southbank, Victoria, Australia, 2018
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)

TEACHING ACCOMPLISHMENTS (cont'd):**Students Advised (cont'd):**

University of Idaho (cont'd):

Graduate Committee Member:

McKenzie Corpron, M.S. (Completion date: January 2020)

Ashalynn Bilton-Smith, M.S. (Completion date: December 2020)

Jennifer Spencer, Ph.D. (Completion date: June 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.

Book Chapters, Peer-reviewed:

Dalton, J.C. 2019. Inseminating your own cows. In: Dairy Cattle Fertility, fourth edition, J.S. Stevenson (Ed.), *Hoard's Dairyman*, Fort Atkinson, WI. (Accepted – In Press)

Refereed Publications:

Claypool, C.K., J.A. Spencer, S. Menegatti Zoca, B. Shafii, W.J. Price, A. Ahmadzadeh, N.R. Rimbey, and **J.C. Dalton**. 2019. *Short Communication*: Reproduction outcomes in dairy heifers following a 14-d progesterone insert presynchronization protocol. *J. Dairy Sci.* 102:11730-11735. <https://doi.org/10.3168/jds.2019-17000>

Kiser, J.N., E. Clancey, J.G.N. Moraes, **J. Dalton**, G.W. Burns, T.E. Spencer, and H.L. Neibergs. 2019. Identification of loci associated with conception rate in primiparous Holstein cows. *BMC Genomics*.20:840. <https://doi.org/10.1186/s12864-019-6203-2>

Oliver, K.F., A.M. Wahl, M. Dick, J.A. Toenges, J.N. Kiser, J.M. Galliou, J.G.N. Moraes, G.W. Burns, **J. Dalton**, T.E. Spencer, and H.L. Neibergs. 2019. Genomic analysis of spontaneous abortion in Holstein heifers and primiparous cows. *Genes*. 10:954. <http://dx.doi.org/10.3390/genes10120954>

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

- Kiser, J.N., E.M. Keuter, C.M. Seabury, M. Neupane, J.G.N. Moraes, **J. Dalton**, G.W. Burns, T.E. Spencer, and H.L. Neibergs. 2019. Validation of 46 loci associated with female fertility traits in cattle. *BMC Genomics*. 20:576-589. <https://doi.org/10.1186/s12864-019-5935-3>
- Clancey, E., J.N. Kiser, J.G.N. Moraes, **J.C. Dalton**, T.E. Spencer, and H.L. Neibergs. 2019. Genome-wide association and gene set enrichment analysis-SNP identify genes associated with 305-day milk yield in Holstein dairy cows. *Animal Genetics*. 50:254-258. doi: 10.1111/age.12792
- Davenport, K.M., J.A. Spencer, J.J. Peak, **J.C. Dalton**, and B.M. Murdoch. 2018. Genomic testing of female Holsteins: A resource for selection and improvement. *Trans. Anim. Sci.* 2: Suppl. 1: S149–S154. <https://doi.org/10.1093/tas/txy033>
- Spencer, J.A., K. Carnahan, B. Shafii, W.J. Price, **J. Dalton**, and A. Ahmadzadeh. 2018. 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.* 101: 9:8524–8531.
- Autran, C.A., W. Price, **J.C. Dalton**, and A. Ahmadzadeh. Effect of prostaglandin F_{2α} 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. I1AW9. 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_{2α} 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 in 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.

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

- 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.
- 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_{2α}. *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.

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

- 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. Repro. Sci.* 60-61:663-677.
- 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:

- Menegatti Zoca, S., B. Shafii, W.J. Price, M.D. Utt, B.R. Harstine, K. McDonald, L. Cruppe, J.M. DeJarnette, L.D. Peters, J. L.M. Vasconcelos, and **J.C. Dalton**. 2019. Angus sire field fertility and in vitro sperm characteristics following use of different sperm insemination doses in Brazilian beef cattle. *Theriogenology* (Accepted - In Press).
- Spencer, J., K.G. Carnahan, B. Shafii, **J. Dalton**, and A. Ahmadzadeh. 2019. The impact of aspirin on conception rates during a season with elevated temperatures in lactating dairy cows. *An. Repro. Sci.* (Accepted – In Press).

Refereed Publications Submitted:

- Galliou, J.M., J.N. Kiser, K.F. Oliver, C.M. Seabury, J.G.N. Moraes, **J. Dalton**, G.W. Burns, T.E. Spencer, and H.L. Neibergs. 2019. Identification of loci and pathways associated with heifer conception rate in U.S. Holsteins. *Scientific Reports.* (Submitted).
- Clancey, E., J.N. Kiser, C.M. Seabury, M. Neupane, J.G.N. Moraes, **J. Dalton**, G.W. Burns, T. Spencer, and H.L. Neibergs. 2019. Genome-wide association analyses for fertility traits in U.S. Holsteins across life stages using single-locus and multi-locus approaches. *Journal of Applied Genetics.* (Submitted).

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

Dalton, J.C., D.A. Moore, and M. Chahine. 2019. Genómica en humanos y animales: Un vasto panorama. *Washington State University Veterinary Medicine Extension*. Available at: <https://s3.wp.wsu.edu/uploads/sites/2147/2019/02/The-Big-Picture-Genomics-Humans-and-Animals-Final-Spanish.pdf>

Dalton, J.C., D.A. Moore, and M. Chahine. 2019. La selección genómica ha cambiado la manera de seleccionar los toros en la ganadería lechera. *Washington State University Veterinary Medicine Extension*. Available at: <https://s3.wp.wsu.edu/uploads/sites/2147/2019/02/Genomic-Selection-Has-Changed-Dairy-Sire-Selection-Final-Spanish.pdf>

Dalton, J.C., and D.A. Moore. 2018. Genomic selection has changed dairy sire selection. DAIReXNET. Available at: <https://articles.extension.org/pages/74738/genomic-selection-has-changed-dairy-sire-selection>

Dalton, J.C., and D.A. Moore. 2018. The big picture: Genomics, humans, and animals. DAIReXNET. Available at: <https://articles.extension.org/pages/74729/the-big-picture:-genomics-humans-and-animals>

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/gentica-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>

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_{2α}) 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>

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

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:**

Galliou, J.M., J.N. Kiser, J.G.N. Moraes, **J. Dalton**, G.W. Burns, T.E. Spencer, and H.L. Neibergs. 2018. Identification of canonical pathways associated with fertility in Holstein heifers. In: *Proc. Plant Animal Genome XXVII*, San Diego, CA.

Neibergs, H.L., J.N. Kiser, E. Clancy, E.M. Keuter, **J. Dalton**, J.G.N. Moraes, C.M. Seabury, and T. E. Spencer. 2018. Identification of loci associated with pregnancy in Holstein heifers and primiparous cows. *J. Dairy Sci.* 101:E. Suppl. 2: 327-328.

Menegatti Zoca, S., B. Shafii, W.J. Price, B.R. Harstine, K. McDonald, M.D. Utt, L. Cruppe, J.M. DeJarnette, L.D. Peters, J.L.M. Vasconcelos, and **J.C. Dalton**. 2018. Use of computer-assisted sperm analyses (CASA) and flow cytometry to explain Angus bull field fertility differences. *J. Anim. Sci.*

De Vries, A., **J. Dalton**, and D. Moore. 2018. Assisting dairy farmers with decision making on the use of genomic testing and reproductive technologies in the USA. In: *Proc. 69th Ann. Meeting European Fed. Anim. Sci.*, Dubrovnik, Croatia.

Menegatti Zoca, S., B. Shafii, W.J. Price, M.D. Utt, B. Harstine, K. McDonald, J.M. DeJarnette, and **J.C. Dalton**. 2018. Use of principal component analysis to evaluate variability in CASA and flow cytometer sperm characteristics. In: *Proc. Association of Applied Animal Andrology*, New Orleans, LA. Available at: <https://doi.org/10.1016/j.anireprosci.2018.04.046>

Neibergs, H.L., J. N. Kiser, **J. Dalton**, J. G. N. Moraes, and T. E. Spencer. 2018. Identification of loci associated with embryonic and fetal loss in Holstein heifers. In: *Proc. Biology of Genomes Meeting*, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY.

Hulst, L.R.A., J. Moraes, J. Kiser, M. Neupane, **J. Dalton**, G. Burns, T. Spencer and H.L. Neibergs. 2018. Identification of genetic loci associated with conception rate in US Holstein dairy cows. In: *Proc. Plant Animal Genome XXVI*, San Diego, CA.

Keuter, E.M., M. Neupane, J.N. Kiser, J.G.N. Moraes, **J. Dalton**, 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. 50th Annual Meeting Soc. Study Reprod.*, Washington, D.C., pp. 207-208.

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

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

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- Saacke, R.G., S. Nadir, **J.C. Dalton**, R.L. Nebel, and J. Bame. 1995. Assessing bull fertility. In: *Proc. Soc. for Therio. Annual Meeting*, San Antonio, TX, pp. 73-91.
- Saacke, R.G., S. Nadir, **J.C. Dalton**, R.L. Nebel, and J.H. Bame. 1994. Involvement of the bull and inseminate in fertility and embryo quality. In: *Proc. 13th American Embryo Transfer Assoc. Annual Meeting*, Madison, WI, pp. 43-65.
- Saacke, R.G., S. Nadir, **J.C. Dalton**, J. Bame, J.M. DeJarnette, S. Degelos, and R.L. Nebel. 1994. Accessory sperm evaluation and bull fertility--An update. In: *Proc. Nat'l Assoc. Anim. Breeders 15th Tech. Conf. on Artif. Insem. and Reprod.*, Columbia, MO, pp. 57-67.

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.
- Dalton, J.C.** 2008. Phosphorus and reproduction in dairy cattle. In: *Proc. University of Idaho Phosphorus Management Workshop*, Preston, Burley, Jerome, and Caldwell, ID.
- 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: (2019)

“Genomics and fertility” and “Center for Agriculture, Food, and the Environment (CAFÉ),” Idaho DHIA Annual Meeting, Boise, ID, December 2019

“Reproductive physiology I: The estrous cycle,” “Reproductive physiology II: Luteal regression, maternal recognition of pregnancy, and pregnancy loss,” “Reproductive physiology II: Milk production, sperm, and timing of AI,” “Synchronization I: Hormones,” “Synchronization II: First service timed AI,” ABS Global Reproductive Advisor Academy, Twin Falls, ID, November 2019

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

University of Idaho: (2019) (cont'd)

- “Artificial insemination,” “Semen handling,” and “Heat detection and AI,” Extension Spanish and English language AI School, Twin Falls, ID, November 2019
- “Dairy cattle genomics, health and fertility,” Utah State University Animal, Dairy, and Veterinary Science Department Animal Genetics guest lecture, Logan, UT, October 2019
- “Dairy cattle genomics and fertility,” Dairy Cattle Genomics Workshop, Madison, WI, October 2019
- “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, September 2019
- “Genomics and fertility” and “Center for Agriculture, Food, and the Environment (CAFÉ),” Idaho DHIA Supervisors’ Annual Meeting, Twin Falls, ID, August 2019
- “Synchronization strategies for dairy heifers” (webinar), hosted by Hoard’s Dairyman and the University of Illinois, June 10, 2019
- “Genomics and fertility,” Select Reproductive Solutions Conference, Roanoke, VA, June 2019
- “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 2019
- “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 2019
- “Novel fertility markers in heifers and lactating cows” (webinar), hosted by The Ohio State University, January 28, 2019

University of Idaho: (2018)

- “Markers for heifer and cow conception rate and daughter pregnancy rate in Holstein cattle,” and “Dairy Cattle Genomics: Fertility and Animal Health: Where do we go from here?” Dairy Cattle Genomics Workshops, Stephenville, TX, and Okeechobee, FL, December 3 and 5, 2018
- “Dairy cattle genomics and fertility,” Lincoln Memorial University College of Veterinary Medicine Ag Animal Club, Harrogate, Tennessee, November 1, 2018
- “Dairy Cattle Genomics and Fertility,” Virginia Maryland Regional College of Veterinary Medicine Food Animal Club, October 31, 2018
- “Markers for heifer and cow conception rate and daughter pregnancy rate in Holstein cattle,” Virginia Maryland Regional College of Veterinary Medicine Food Animal Journal Club, October 31, 2018
- “Dairy cattle genomics and fertility,” Utah State University Animal, Dairy, and Veterinary Science Department Animal Genetics guest lecture, Logan, UT, October 23, 2018
- “Markers for heifer and cow conception rate and daughter pregnancy rate in Holstein cattle,” Dairy Cattle Genomics Workshops, Twin Falls, ID and Prosser, WA, October 8 and 10, 2018 and Tulare, CA, December 10, 2018
- “Dairy cattle genomics and fertility,” Dairy Cattle Genomics Workshop, Madison, WI, October 2018
- “Genomics and fertility in dairy cattle,” Pre-Conference Seminar prior to the American Association of Bovine Practitioners Annual Conference, Phoenix, AZ, September 2018
- “Sexed semen,” “Genomics and fertility in dairy cattle” 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, Phoenix, AZ, September 2018
- “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, September 2018

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

University of Idaho: (2018)(cont'd)

- “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 2018
- “Genomics and dairy cattle fertility,” Ross University School of Veterinary Medicine, Basseterre, St. Kitts, West Indies, March 2018
- “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 2018
- “Dairy cattle genomics and fertility,” Tulare High School Agricultural Education Seminar, Tulare, CA, February 14, 2018
- “Dairy cattle genomics and fertility,” California Polytechnic State University, San Luis Obispo, Animal Science Department Seminar, San Luis Obispo, CA February 12, 2018
- “Dairy cattle genomics and fertility,” Utah State University Animal, Dairy, and Veterinary Science Department Seminar, Logan, UT, February 1, 2018
- “Dairy cattle genomics and fertility,” Utah State University School of Veterinary Medicine, Logan, UT, February 1, 2018

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 2017
- “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

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

University of Idaho: (2016)(cont'd)

- “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
- “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

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

University of Idaho: (2015)(cont'd)

- “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
- “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

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

University of Idaho: (2013)(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, 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
- “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

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

University of Idaho: (2011)(cont'd)

- “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
- “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

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

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

“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

“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

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

University of Idaho: (2007)(cont'd)

- “Opportunities and challenges with sexed semen,” 53rd 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
- “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

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

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

- “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 49th 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 48th 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
- “Research and Extension Update-Idaho and Ecuador,” UI-WSU Center for Reproductive Biology Annual Meeting, Worley, ID, May 2002

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

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

- “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 provides clues to fertility.” Invited speaker to the Dairy Cattle Reproduction Council Annual Meeting, Pittsburgh, PA, November 14, 2019

“Get the jump on heifer reproduction.” Invited speaker to the MILK Business Conference, Las Vegas, NV, November 12, 2019

“Prediction and promotion of fertility in bulls.” Invited speaker to the Applied Reproductive Strategies in Beef Cattle Conference, Knoxville, TN, August 20-21, 2019.

“Maximizing cow comfort through facility design and heat abatement: Producer panel.” Invited speaker to the Dairy Cattle Reproduction Council Annual Meeting, Indianapolis, IN, November 16, 2018.

“Effect of sperm dose on pregnancy per timed AI in Brazilian beef cattle.” Invited speaker to the Nat'l Assoc. Anim. Breeders 27th Tech. Conf. on Artif. Insem. and Reprod., Green Bay, WI, September 20-21, 2018.

“Prediction and promotion of fertility in bulls.” Invited speaker to the Applied Reproductive Strategies in Beef Cattle Conference, Ruidoso, NM, August 29-30, 2018.

“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.

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

“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.

“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 technicians.” 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 16th Día Internacional del Ganadero Lechero, Delicias, Chihuahua, México, September 12, 2013.

“Characteristics of semen relevant to timed AI.” Invited speaker to the 10th International Symposium on Animal Reproduction, Córdoba, Argentina, July 5, 2013.

“Management and insemination-related factors affecting fertilization in cattle.” Invited speaker to the 10th 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 29th Western Canadian Dairy Seminar, Red Deer, Alberta, Canada, March 10, 2011.

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

- “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 4th 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 4th 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.
- “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 9th Western Dairy Management Conference, Reno, NV, March 11-13, 2009.
- “Opportunities and challenges with sexed semen.” Invited speaker to the 11th Dia Internacional del Ganadero Lechero, Delicias, Chihuahua, México, September 4 – 6, 2008.
- “Opportunities and challenges with sex-separated sperm.” Invited speaker to the 24th 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.

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

- “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 21st 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 20th 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.
- “Meeting the demand for dairy replacements.” Invited panel moderator to the 6th Western Dairy Management Conference, Reno, NV, March 2003.
- “Troubleshooting reproductive problems: Where to begin and what to expect.” Invited speaker to the 5th 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 19th 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.

SCHOLARSHIP ACCOMPLISHMENTS:**Other Scholarly Activities:**

University of Idaho:

- External Promotion and Tenure Review Member, Department of Animal and Range Sciences, New Mexico State University, 2019
- Peer-reviewer, International Ruminant Reproduction Symposium, 2018
- External Promotion and Tenure Review Member, Department of Animal Biology, Faculty of Land and Food Systems, University of British Columbia, 2015

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

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, 2010-2018

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,” 2007-2018

World Wide Sires, Ltd., World Wide Sires University Professor (VIP website “Ask the expert” section), 2008-2016

Peer-reviewer for *PLoS One*, 2019

Peer-reviewer for the *International Journal of Biometerology*, 2019

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*, 2017-2018

Peer-reviewer for the *Italian Journal of Animal Science*, 2011

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

Other Creative Activities:

University of Idaho:

Brownfield Ag News radio, “Why more farmers are using genomics to increase opportunities,” aired October 16, 2018, available at https://brownfieldagnews.com/managing-for_profit/why-more-farmers-are-using-genomics-to-increase-opportunities/

“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

SCHOLARSHIP ACCOMPLISHMENTS (cont'd):**Other Creative Activities (cont'd):**

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, March 2020

National:

Invited to make two presentations at the Minnesota Veterinary Medical Association Annual Meeting, Minneapolis, MN, February 2020

Invited to make a presentation at the Cattlemen's College, National Cattlemen's Beef Association annual meeting, San Antonio, TX, February 2020

Instructor for the Lincoln Memorial University School of Veterinary Medicine AI Certification Course, sponsored by Select Sires and SCAABP, Harrogate, TN, April 2020

Invited to make a presentation at the American Dairy Science Association Annual Meeting, West Palm Beach, FL, June 2020

Invited to make a presentation at the National Association of Animal Breeder's Technical Conference on AI and Reproduction, Geneva Lake, WI, September, 2020

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).

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.

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

- 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_{2α}-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_{2α}-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_{2α}-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.
- Dalton, J.C.**, R.J. Norell, and M. Chahine. 2008. "Idaho Dairy Extension Programs." Sponsor: United Dairymen of Idaho. Amount: \$10,000.

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

- 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 ω -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 Dairywomen 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. Ohlensehler, 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 Dairywomen 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 Dairywomen 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 (Total \$0)**Grants and Contracts: Unfunded (Total: \$8,106,974)**

Dalton, J.C. 2019. "Presynchronization of dairy heifers to increase reproductive performance and reduce input costs prior to first calving." Sponsor: Select Sires, Inc. Amount: \$7,360.

Dalton, J.C., and A. Ahmadzadeh. 2019. "Is fresh sexed semen use at first service timed AI in dairy heifers feasible?" Sponsor: Select Sires, Inc. Amount: \$8,020.

Dalton, J.C., and A. Ahmadzadeh. 2018. "A proposal to investigate the feasibility of fresh sexed semen usage at first service timed AI in dairy heifers." Sponsor: Select Sires, Inc. Amount: \$7,966.

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.

SCHOLARSHIP ACCOMPLISHMENTS (cont'd):**Grants and Contracts: Unfunded (Total: \$8,106,974) (cont'd):**

- 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.
- 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 Dairymen 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 $F_{2\alpha}$ 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 $_{2\alpha}$ -GnRH timed AI protocol with and without GnRH at CIDR insertion." Sponsor: Genex Cooperative. Amount: \$9,800.

SCHOLARSHIP ACCOMPLISHMENTS (cont'd):**Grants and Contracts: Unfunded (Total: \$8,106,974) (cont'd):**

- 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_{2α}-GnRH timed AI protocol with and without GnRH at CIDR insertion." Sponsor: Select Sires, Inc. Amount: \$9,850.
- 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. Hristov, C. Schneider, J. Harrison, M. Gamroth, G. Shewmaker, **J. 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.

SCHOLARSHIP ACCOMPLISHMENTS (cont'd):**Grants and Contracts: Unfunded (Total: \$8,106,974) (cont'd):**

- Dalton, J.C.**, R. Norell, and M. Chahine. 2006. "Idaho Extension Dairy Programs." Sponsor: United Dairyemen 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 Dairyemen 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.
- 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_{2α}-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_{2α} 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_{2α}-GnRH timed AI protocol with and without GnRH at CIDR insertion." Sponsor: Select Sires, Inc. Amount: \$12,200.

SCHOLARSHIP ACCOMPLISHMENTS (cont'd):**Grants and Contracts: Unfunded (Total: \$8,106,974) (cont'd):**

- 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.
- 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_{2α} - 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.

SCHOLARSHIP ACCOMPLISHMENTS (cont'd):**Grants and Contracts: Unfunded (Total: \$8,106,974) (cont'd):**

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),

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:

Beef Reproduction Task Force Nominations Committee (Chair), 2019

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 Governance-Subcommittee Member, 2019

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

Western Dairy Management Conference Planning Committee member, 2002-03, 2008-09, 2014-2015

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

Regional:

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 College of Agricultural and Life Sciences Promotion and Tenure Committee, 2019
 Mentoring Committee Member for Jang Ho Kim, Ph.D., Food Safety Extension Specialist, UI
 Margaret Ritchie School of Family and Consumer Sciences, 2019
 UI Animal and Veterinary Science Promotion and Tenure Review Committee Member for
 Brenda Murdoch, Ph.D., 2019
 UI Margaret Ritchie School of Family and Consumer Sciences Extension Specialist/Assistant
 Professor in Human Nutrition Search Committee Member, 2018-2019
 UI Animal and Veterinary Science Promotion Review Committee Chair for Benton Glaze, Jr.,
 Ph.D., 2018
 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
 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, 2001-2018

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

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, 2017-2018

OUTREACH SERVICE:**Popular Press Publications:**

Dalton, J.C. 2019. Genomics offers path to better fertility. *Dairy Herd Management*. 56:8:24.

Dalton, J.C. 2019. Pay attention to the semen tank. *Dairy Herd Management*. 56:4:20.

DeVries, A., **J. Dalton**, and D. Moore. **2019.** Looking for greater economic value from genomic testing. *The Progressive Dairyman*. 33:4:57-58. Available at: <https://www.progressivedairy.com/topics/a-i-breeding/looking-for-greater-economic-value-from-genomic-testing>

Dalton, J.C. 2019. High accuracy heat detection. *Dairy Herd Management*. 56:1:28.

Dalton, J.C. 2018. Genomic selection has reduced generation interval. *Dairy Herd Management*. 55:8:18.

Dalton, J.C. 2018. Uterine horn or body? *Dairy Herd Management*. 55:2:16.

Dalton, J.C. 2018. New reproductive strategies and economic outcomes for dairy heifers. *The Bovine Veterinarian* 4:1:6-10.

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.

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

- 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
- 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
- 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
- Dalton, J.C.** 2009. Six reasons not to use clean-up bulls to breed your heifers. Available at: <http://www.bullsemen.com/>
- 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.

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- 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.
- 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.

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

- 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.
- 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.

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

- 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.
- 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.

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

- 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.** 2019. Genomics provides clues to improving fertility. *Central Ag Supply, Inc.* Available at: <https://centralagsupply.com/genomics-provides-clues-to-improving-fertility/>
- Dalton, J.C.** 2019. Genomics provides clues to improving fertility. *Bovine Veterinarian*. Available at: <https://www.bovinevetonline.com/article/genomics-provides-clues-improving-fertility>
- Dalton, J.C.** 2019. Genomics provides clues to fertility. *Dairy Herd Management*. Available at: <https://www.dairyherd.com/article/genomics-provides-clues-improving-fertility>
- Dalton, J.C.** 2019. Pay attention to the semen tank. *Dairy Herd Management*. Available at: <https://www.dairyherd.com/article/pay-attention-semen-tank>
- Dalton, J.C.** 2019. High accuracy heat detection. *Dairy Herd Management*. Available at: <https://www.dairyherd.com/article/high-accuracy-heat-detection>
- Dalton, J.C.** 2018. Semen placement is critical to success with AI. The Ohio Beef Cattle Letter. Available at: <https://u.osu.edu/beef/2018/03/28/semen-placement-is-critical-to-success-with-ai/>
- Dalton, J.C.** 2018. Genomic selection has reduced generation interval. *Dairy Herd Management*. Available at: <https://www.dairyherd.com/article/genomics-has-reduced-generation-interval>
- Dalton, J.C.** 2018. Semen placement is critical to success with AI. *Dairy Herd Management*. Available at: <https://www.dairyherd.com/article/semen-placement-critical-success-ai>
- Moore, D.A., **J.C. Dalton**, and A. DeVries. 2018. Genomics and the pre-weaned dairy calf. Washington State University Veterinary Medicine Extension Ag Animal Health. Winter, pp. 2-3. Available at: <http://vetextension.wsu.edu/newsletters/>
- 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>
- Moore, D.A., and **J.C. Dalton**. 2017. The genomics of fertility and health traits. *Washington State University Veterinary Medicine Extension Ag Animal Health*. Winter, pp. 4-6. Available at: <http://vetextension.wsu.edu/newsletters/>

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

- 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
- 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
- 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
- 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
- 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 (Part 2); <http://marcosveterinario.blogspot.com/2010/05/oportunidades-e-desafios-do-semen.html> (Part 3)
- 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
- 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.
- Bethauser, J., and **J.C. Dalton** (Editors). 2008. Limitation of field evaluation for semen quality (Adapted from: Proc. Nat'l. Assoc. Anim. Breeders 21st Tech. Conf. on Artif. Insem. and Reprod., pp. 82-84.) *ABS Global Techline*.
- Bethauser, J., and **J.C. Dalton** (Editors). 2008. Limitation of field evaluation for semen quality (Adapted from: Proc. Nat'l. Assoc. Anim. Breeders 21st 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.

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

- 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:

- Milking the beef market. *Ag Proud*. 2020.
- Genomics testing costs are starting to fall. *Brownfield Ag News*. 2018. Available on-line at: <https://brownfieldagnews.com/news/genomics-testing-costs-are-starting-to-fall/>
- Using genomics to improve fertility. *Hoard's Dairyman*. June 2018. 163:11:369.
- 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
- 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>
- 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.

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

- 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:

- 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" October, November and December 2018
- Dairy Cattle Genomics: Animal Health and Fertility Pre-Conference Seminar prior to the American Association of Bovine Practitioners Annual Conference, Phoenix, AZ (Co-organized with Dale Moore) September 2018
- 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; April 2018; April 2019
- 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
- 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

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

University of Idaho (cont'd):

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; March and July, 2018; March and July, 2019

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, 2019

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-Theriogenology 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)

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)

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

University of Idaho:

American Dairy Science Association – Student Affiliate Division Undergraduate Original Research Oral Presentation Competition judge, 2019

National Association of Animal Breeders Technical Conference on AI and Reproduction graduate student oral and poster presentation session chair, 2018

Applied Reproductive Strategies in Beef Cattle session chair, 2018, 2019

Applied Reproductive Strategies in Beef Cattle Graduate Student Abstract and Poster Committee Chair, 2019; Member, 2018

American Dairy Science Association – Student Affiliate Division Undergraduate Original Research Poster Competition judge, 2018

International Bull Fertility Conference: From Theory to Practice session chair, 2018

Dairy Cattle Reproduction Council Annual Conference session chair, 2013, 2017, 2019

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

Utah State University:

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

PROFESSIONAL DEVELOPMENT:**International:**

International Bull Fertility Conference: From Theory to Practice, Westport, Ireland, 2018
 International Embryo Technology Society, Bangkok, Thailand, 2018
 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
 16th Día Internacional del Ganadero Lechero, Delicias, Chihuahua, México, 2013
 10th 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
 29th Western Canadian Dairy Seminar, Red Deer, Alberta, Canada, 2011
 4th 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
 11th 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
 Cincinnati, Ohio, 2019
 Knoxville, Tennessee, 2018
 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
 Logan, Utah, 1991
 Raleigh, North Carolina, 1990
 American Dairy Science Association Discover Conference “Biology of the Calf: Birth to four months”
 Roanoke, Virginia, 2008

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

- American Society of Animal Science Annual Meetings:
 - Rapid City, South Dakota, 1996
 - Pittsburgh, Pennsylvania, 1992
- Applied Reproductive Strategies in Beef Cattle
 - Knoxville, Tennessee, 2019
 - Ruidoso, New Mexico, 2018
 - 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
- Association for Applied Animal Andrology
 - New Orleans, Louisiana, 2018
- Council on Dairy Cattle Breeding Genomics Meeting
 - Reno, Nevada, 2019
- Dairy Calf and Heifer Association Annual Meeting
 - Madison, Wisconsin, 2017
 - Visalia, California, 2006, 2012
- Dairy Cattle Reproduction Council
 - Pittsburgh, Pennsylvania, 2019
 - Indianapolis, Indiana, 2018
 - 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
 - Green Bay, Wisconsin, 2014, 2018
 - Milwaukee, Wisconsin, 1992, 1994, 1996, 2002, 2004, 2008, 2010, 2012
 - Madison, Wisconsin, 1998

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

- 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
- Symposium on the Nutrient Requirements of Dairy Cattle, 7th 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