

CURRICULUM VITAE

Sandra Michele Godden

1. IDENTIFYING INFORMATION

1.a Professional Address Department of Veterinary Population Medicine
College of Veterinary Medicine
University of Minnesota
225 VMC, 1365 Gortner Avenue,
St. Paul, MN, 55108
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1.b Academic Rank: 05/10 – present **Professor**, Dairy Population Medicine

1.c Education

DVSc 1998 Ontario Veterinary College, **University of Guelph**
Specialization: Ruminant Health Management.
DVM 1993 Ontario Veterinary College, **University of Guelph**
BSc 1989 Ontario Agricultural College, **University of Guelph**

1.d Positions/Employment

2010-present **Professor**, Dairy Population Medicine
2004-2010 **Associate Professor**, Dairy Population Medicine
1998-2004 **Assistant Professor**, Dairy Population Medicine
Dept. of Veterinary Population Medicine, University of Minnesota, St. Paul, MN
1995-1998 **Associate Veterinarian and Graduate Student: dairy/beef practice**
Department of Population Medicine, University of Guelph
1994-1995 **Associate Veterinarian: mixed practice**
Stirling Veterinary Services, Stirling, Ontario, Canada
1993-1994 **Associate Veterinarian: mixed practice**
Williamstown Veterinary Services, Williamstown, Ontario, Canada

1.e Licensure

State of Minnesota Board of Veterinary Medicine	1998 - present
State of Wisconsin Department of Regulation and Licensing	Inactive
College of Veterinarians of Ontario	Inactive

1.f Professional Memberships

Association for Veterinary epidemiology and Preventive Medicine 06/2019 - present
American Association of Bovine Practitioners 1996 - present

American Dairy Science Association	1998 - present
National Mastitis Council	1998 - present
Minnesota Veterinary Medical Association	1998 – present

2. HONORS AND AWARDS

2.1 University of Minnesota

- 5/2014 UMN College of Veterinary Medicine Award of Excellence in Graduate Teaching and Advising
- 2/2012 Outstanding Faculty Award for 2011. Minnesota Veterinary Medical Association.
- 5/2011 University of Minnesota, College of Veterinary Medicine - Mark of Excellence Award
- 5/2010 Dept. of Veterinary Population Medicine – Award for Excellence in Didactic Teaching
- 5/2007 Dept. of Veterinary Population Medicine – Award for Excellence in Didactic Teaching

2.2 External Sources

- 2019 ADSA West Agro, Inc. Award – For excellence in mastitis/milk quality research
- 2001 Mentor Connection Program Certificate of Appreciation
- 1998 Dr. Errol Hancock Scholarship
- 1997 Dr. Casey Buizert Memorial Award
- 1997 Rogar/STB Scholarship
- 1997 University of Guelph Graduate Scholarship
- 1996 Blythe James Chase Scholarship
- 1996 Pfizer Graduate Student Research Award
- 1996 University of Guelph Graduate Scholarship
- 1993 Ontario Veterinary College Alumni Proficiency Prize
- 1992 Guelph Women in Networking Prize
- 1990 Canadian Morgan Horse Foundation Scholarship
- 1989 Quinte District Veterinary Medical Association Scholarship

3. RESEARCH, SCHOLARSHIP, AND CREATIVE WORK

Research interests:

1. Detection, diagnosis, treatment and prevention of mastitis in dairy cattle.
2. Calf health management; colostrum (e.g. pasteurization, replacers), nutrition, Johne's disease control.
3. Transition cow management and prevention of periparturient metabolic disease.
4. Develop and validate mitigation strategies to reduce antimicrobial use and antimicrobial resistance on dairy farms.

3.a Grants and Contracts

External Sources:

1. **S. Godden (PI)**, E. Royster (Co-I). Efficacy of a potassium sorbate preservative in bovine colostrum and milk. Solution Bio Sciences, Inc. \$36,717. 2/2019 – 1/2020.

2. **Godden, S. (PI)**, D. Nydam (Co-PI), P. Gorden (Co-PI), A. Lago (Co-PI), E. Royster, R. Bicalho. Selective Dry Cow Therapy on U.S. Dairy Farms: Impact on Udder Health, Antimicrobial Use and Economics. USDA-AFRI. \$498,333. 4/1/2018 – 3/31/2020.
3. **Godden, S. (PI)**, E. Royster, D. Nydam, A. Lago. Randomized Equivalence Study Evaluating the Efficacy of Two Commercial Internal Teat Sealants in Dairy Cows. Boehringer Ingelheim Vetmedica Inc. \$264,032. 6/1/18 – 5/30/19.
4. J. Barlow (PI), **S. Godden**: external advisor committee. Bedding strategies that promote udder health and milk quality by fostering a beneficial microbiome on organic dairy farms. USDA-OREI. \$994,898. 9/1/2018 – 8/31/2021.
5. Caixeta, L. (PI), W. Knauer, **S. Godden**, G. Cramer. Effect of different topical crème formulations on horn bud wound healing following cautery disbudding in dairy calves. Zinpro Inc. \$14,030. 10/25/18 – 10/24/19.
6. **Godden, S. (PI)**, E. Royster, B. Crooker. Investigation of the relationship between bedding materials, bedding characteristics and intramammary infection in late lactation dairy cows. Zoetis. \$177,472. 7/2017-7/2018.
7. **Godden, S. (PI)**, and E. Royster. Efficacy of ToDAY Intramammary infusion for the treatment of clinical mastitis in lactating dairy cows. Midwest Veterinary Services. \$99,050. 4/2017-4/2018.
8. **Godden, S. (PI)**, R. Bisinotto (Co-PI), J. Schefers, K. Leslie, D. Haines, C. Murray. Effects of implementing a novel calf vitality scoring system and early intervention program on welfare, health and performance in newborn dairy calves. Land O' Lakes Inc. \$9,500 unrestricted gift. 03/2017. \$4,750 in 2017, \$4,750 in 2018.
9. **Godden, S. (PI)**, S. Sreevatsan (Co-PI), L. Fox, E. Royster, K. Patel. Molecular epidemiology of Staphylococcus aureus on U.S. dairy farms. MN DHIA. \$15,000 unrestricted gift over 2 years. 2/6/2017. \$9,000 in 2017; \$6,000 in 2018.
10. Apley, M. (PI, KSU), **S. Godden** (Co-PI at MN), J. Fetrow. Characterization of antimicrobial use in beef feedlots and dairies. FDA. \$300,000 per year to be renewed annually for 5 years. Approx. \$65,471/yr to UMN) 9/1/2016-8/31/2021.
11. Royster, E. (PI), G. Cramer, R. Bisinotto, **S. Godden**, T. Goldsmith, L. Minicucci, P. Gorden, E. Rollin. Support for further development and implementation of web-based educational materials in dairy production medicine and food safety. USDA Vet Services Grant Program (VSG). \$249,839 over 2 years. 9/1/2016-8/31/2018.
12. **Godden, S. (PI)**, W. Knauer (Co-PI), R. Bisinotto, J. Schefers. Investigation of the relationship between serum calcium status of the dam at parturition and survival, vigor, health and growth of neonatal dairy calves. Boehringer Ingelheim Vetmedica Inc. \$24,810. 4/2017-12/2017.
13. **Godden, S. (PI)**, B. Crooker. External sales agreement: Colostrum replacer safety testing. Zinpro Corp. \$6,000. 2/2017.
14. **Godden, S. (PI)**. Effect of decay of passive antibodies in calves fed maternal colostrum or a colostrum replacer on response to early calfhooD vaccination. Saskatoon Colostrum Co. \$15,000 unrestricted gift. 1/2016.
15. **Godden, S. (PI)**. Effect of decay of passive antibodies in calves fed maternal colostrum or a colostrum replacer on response to early calfhooD vaccination. Zoetis. \$3,000 in kind gift (vaccine). 1/2016.
16. **Godden, S. (PI)**. Impact of bedding type in raw milk contamination with spore formers affecting dairy powder quality. DMI Inc. (Primary funder). Cornell University (subcontract). \$61,807 over 2 yr. \$43,251 in year 1; \$18,556 in year 2; 11/1/2015-12/31/17.
17. **Godden, S. (PI)**, E. Royster (Co-PI), J. Timmerman, B. Crooker and N. McDonald. Pilot study: Evaluation of selective dry cow therapy on udder health. Zoetis. \$3,120 in kind gift (DCT product). 6/2015.
18. **Godden, S. (PI)**, E. Royster (Co-PI), and J. Timmerman. Field evaluation of an automated milk

- leukocyte differential test for detecting intramammary infection in early- and late lactation dairy cows. Elanco Animal Health. \$32,370. 12/2015.
19. **Godden, S.** (PI) and E. Royster (Co-PI). Investigation of the relationship between bedding bacteria counts, bedding characteristics and bedding management practices with udder health and milk quality on dairy farms. MN DHIA. \$15,000 unrestricted gift. 5/2015.
 20. **Godden, S.** (PI), E. Royster (Co-PI), J. Timmerman, J. Fetrow, B. Crooker, L. Fox, P. Ruegg. Investigation of the relationship between bedding bacteria counts, bedding characteristics and bedding management practices with udder health and milk quality on dairy farms. Boehringer Ingelheim Vetmedica Inc. \$100,000 unrestricted gift. 12/2014.
 21. Wells, S. (PI), S. Goyal, **S.M. Godden**, J. Collins. Evaluation of an ELISA test kit for detection of *Mycobacterium avium* subsp. *paratuberculosis* in bovine serum and milk samples. Zoetis Inc. \$56,307. 2014-2015.
 22. Wells, S. (PI), S. Goyal, **S.M. Godden**, J. Collins. Evaluation of an ELISA test kit for detection of antibody to *Mycobacterium avium* subsp. *paratuberculosis* in pooled and bulk bovine milk samples. Zoetis Inc. \$48,087. 2014-2015.
 23. **Godden, S.** (PI). Calf health research program. Saskatoon Colostrum Co. \$15,000 unrestricted gift. 5/2014.
 24. **Godden, S.** (PI). Calf health research program. Davis Family Dairies. \$3,500 unrestricted gift. 5/2014.
 25. **Godden, S.** (PI). Mastitis research program. Boehringer Ingelheim. \$16,000 unrestricted gift. 3/2014.
 26. **Godden, S.** (PI), B. Crooker. External sales agreement: Colostrum replacer safety testing. Zinpro Corp. \$36,000. 3/2014-3/2017.
 27. **Godden, S.** (PI), E. Royster. An evaluation of the efficacy of experimental post-milking teat disinfectants for prevention of intramammary infection and target animal safety in dairy cattle. DeLaval Manufacturing. \$67,225. 12/2013-12/2014.
 28. **Godden, S.** (PI). Validation of the MISCO Palm Abbe digital refractometer to estimate colostrum and serum IgG concentrations. MISCO, Inc. \$2,500. 5/2013-12/2013.
 29. **Godden, S.** (PI), J. Fetrow, R. Chebel. Evaluation of the effect of preweaning milk intake and weaning process on calf intakes growth and health in the preweaning and postweaning periods. GPS Dairy Consulting. \$2,500. 5/2013-12/2013.
 30. **Godden, S.** (PI), M. Thompson. Supplementing poor quality colostrum with a colostrum replacer: Effects on passive transfer of IgG and calf health. Saskatoon Colostrum Co. \$5,000. 5/2013 to 8/2013.
 31. Aly, S. (PI), J. Champagne, J. Cullor, P. Gorden, **S. Godden**, T. Lehenbauer. Molecular epidemiology of food animal pathogens: Longitudinal study of mastitis pathogens in dairy herds. UC-Davis. \$19,337. 3/2012-2/2013.
 32. **Godden, S.** (PI) and D. Haines. Evaluation of the effect of adding gut active carbohydrates to fresh colostrum on passive transfer of immunoglobulin G in Holstein dairy calves. Alltech, Inc. \$15,695. 6/2012 to 5/2013.
 33. **Godden, S.** (PI). Effect of using a novel method to heat-treat small volumes of bovine colostrum on colostrum characteristics. DairyTech Inc. \$5,000 unrestricted gift. 6/2012 to 12/2012.
 34. Endres, M. (PI), **S. Godden**, A. DePassille, J. Rushen, J. Salfer, K. Janni, N. Litherland, H. Chester-Jones, W. Lazarus. Assessing welfare of dairy calves when using automated calf feeders in the upper Midwest. NIFA. \$480,000. 2/15/2012 to 2/14/2015.
 35. Aly, S. (PI), J. Champagne, J. Cullor, P. Gorden, **S. Godden**, T. Lehenbauer. Molecular epidemiology of food animal pathogens: Longitudinal study of molecular epidemiology of mastitis pathogens in dairy herds. UC Davis – CFAH Funds. \$19,937. 2012.
 36. Fetrow, J. (PI), P. Rapnicki, **S. Godden**, R. Chebel, M. Overton, M. Apley, et al.. National Center of Emphasis for Dairy Food System Veterinary Education. USDA Higher Education Challenge Grant. \$700,000. 2011-2012.

37. **Godden, S.**, (PI), K. Hausler. Investigation of the risk for violative meat residues in bob veal calves fed colostrum from cows dry treated with cephalixin benzathine. Boehringer Ingelheim Vetmedica Student Research Fellowship. \$10,000. 2011.
38. **Godden, S.** (PI). Unrestricted gift towards colostrum research program. Saskatoon Colostrum Co., Ltd. \$4000. 5/2011.
39. Venkitanerayanan, K (PI), B. Jayarao, O. Oyarzabel, F. Diez, J. Smyth, and **S. Godden**. A comprehensive study investigating the potential health risk of *Clostridium difficile* as a foodborne pathogen. USDA - AFRI. \$866,700 for 3 years. 2/2011 to 1/2014.
40. **Godden, S.** (PI), S. Wells, H. Groenendaal, and F. Zagmutt. Title: Clinical trials in Johne's disease control: Heat-treatment of colostrum and maternity pen management. Agency: JDIP – USDA. \$75,541. 6/2011 – 5/2012.
41. **Godden, S.** (PI), P. Gorden, L. Timms, S. Aly, T. Lehenbauer, J. Champagne, P. Rapnicki, R. Bey, J. Fetrow. Title: Randomized non-inferiority clinical trial evaluating three commercial dry cow mastitis preparations. Boehringer Ingelheim Vetmedica, Inc. \$233,219. 12/2010 – 10/2012.
42. **Godden, S.** (PI), J. Fetrow, J. Schefers. Title: Evaluation of the effect of an oral antibody product or an oral modified live vaccine on neonatal calf scours. ImmuCell, Corp. \$69,780. 10/2010 – 9/2011.
43. **Godden, S.** DairyTech, Inc. Unrestricted gift towards colostrum research. 07/2010. \$4,809.
44. Boskey, A.(PI), J. Lane, S. Doty, P. Mayer-Kuckuk, E. DiCarlo, M. Klein, M. van der Meulen, R. Mendelsohn, G.L. Pluhar, and **S. Godden**. Title: FT-IR Microscopy of Mineral Structure in Osteoporosis Part 2. NIH. 4/2010 to 3/2014. \$2,821,014 (\$474,254 to U of MN)
45. **Godden, S.** (PI), S. Wells, and J. Fetrow. Title: Evaluation of the Relationship between Serum Total Protein and Albumin Concentration and Subsequent Risk for Clinical Johne's Disease in Dairy Cows. Midland BioProducts Corp. \$4,695. 6/2009 to 5/2010.
46. **Godden, S.** (PI), P. Rapnicki, R. Bey, and D. Haines. Title: Evaluation of administration of Bovamine® in the first colostrum on feeding on passive transfer of immunoglobulins in newborn Jersey calves. NPC, Inc. \$5,000. 6/2009 to 5/2010.
47. **Godden, S.** (PI), P. Rapnicki, R. Bey, and D. Haines. Title: Evaluation of administration of Bovamine® in the first colostrum on feeding on passive transfer of immunoglobulins in newborn Jersey calves. Pfizer Animal Health, Inc. \$5,000. 6/2009 to 5/2010.
48. B. Nelson, K. Leslie, T. Duffield, B. McBride, **S. Godden** (PI at MN site) and D. Haines. Title: An Evaluation of the effect of systemic administration of selenium and vitamin E at first colostrum feeding on passive transfer and selenium status in newborn dairy calves. Dairy Farmers of Canada - PESAC. \$16,647 to MN. 6/2009 to 5/2010.
49. B. Nelson, K. Leslie, T. Duffield, B. McBride, **S. Godden** (PI at MN site) and D. Haines. Title: An Evaluation of the effect of a plasma derived colostrum replacer and of systemic selenium supplementation on passive transfer in newborn dairy calves. Saskatoon Colostrum Co., Inc.. \$22,443 to MN. 6/2009 to 5/2010.
50. **Godden, S.** (PI), T. Molitor, N. Koewler, M. Bandrick, P. Rapnicki, R. Bey and D. Haines. Title: Effect of pasteurization on immunoglobulin G concentration, bacteria concentration and leukocyte activity in bovine colostrum. GoodNature Products, Inc. \$9,657. 6/2009 to 5/2010.
51. **Godden, S.** (PI), T. Molitor, S. Goyal, K. Leslie, and C. Windeyer. Title: Effect of vaccination of preweaned dairy calves on cell-mediated immunity. Pfizer Animal Health, Inc. \$8,102. 5/2008 to 4/2009.
52. **Godden, S.** (PI) and D. Haines. Title: Colostral antibody decay curves in calves fed a commercial colostrum replacer or maternal colostrum. Saskatoon Colostrum Co. \$12,739. 5/2008 to 4/2009.
53. Rollin, E., M.W. Overton, R. Berghaus, P. Rapnicki, and **S. Godden**. Title: Investigation of the impact of Catalal on B-hydroxybutyrate levels in postparturient dairy cattle. Bayer Animal Health, Inc. \$19,000 to MN. 6/2008 to 5/2009.

54. **Godden, S.** (PI). Title: Evaluation of the Midland MBC QTII instrument to measure serum IgG in dairy calves. Agency: Midland Bioproducts Corp. \$1,100. 6/2008 to 5/2009.
55. Leslie, K., T. Duffield, B. McBride, **S. Godden**, D. Haines. Title: An investigation of selenium status on the success of passive transfer of immunoglobulin and general health in newborn dairy calves. Dairy Farmers of Canada. \$74,500 for 2 years (\$15,685 to U of MN) 1/2008 to 12/2010.
56. **Godden, S.** (PI), S. Wells (Co-PI), S. Sreevatsan. Title: Evaluation of colostrum and maternity pen management to reduce transmission of *Mycobacterium avium* subsp. *paratuberculosis* in neonatal dairy calves. JDIP – USDA. \$65,961 for 1 year (7/2008-6/2009)
57. Leslie, K., S. LeBlanc, C. Windeyer, D. Hodgins, **S. Godden**, R. Graham. Title: Efficacy of vaccination of pre-weaned dairy calves for prevention of respiratory disease, and on general measures of health and performance. Pfizer Animal Health, Inc. \$157,175 for 2 years (\$73,685 to U of MN) 02/2008 – 12/2009.
58. **Godden, S.** (PI). R. Bey (Co-PI), R. Dingwell, K. Leslie, P. Ruegg, L. Timms, J. Fetrow, Farnsworth, P. Rapnicki, S. Stewart. 2007. Title: Use of an on-farm culture system for the strategic treatment of clinical and subclinical intramammary infections. Fort Dodge Animal Health Inc. \$25,000.
59. Ji, Yinduo, **S. Godden** (co-PI), R. Bey (co-PI). 07/01/2007 – 06/30/2009. Title: Role of *S. aureus saeRS* regulon in bovine intramammary gland infection. USDA. \$100,000
60. **Godden, S.** (Co-PI) and R. Bey. Title: Effect of two bedding conditioners on bacterial counts, absorbency and gas emissions in sawdust, digested manure solids and recycled sand bedding. 2/1/2007. WestfaliaSurge, Inc. \$59,908.80
61. **Godden, S.** (PI), S. Wells, J. Fetrow, J. Stabel. Title: Effect of feeding heat-treated colostrum on preweaning health, economics and transmission of *Mycobacterium avium* subsp. *paratuberculosis* in dairy calves: Phase I. 3/2007 – 2/2010. USDA – CSREES. \$364,444
62. **Godden, S.** (PI). R. Bey, J. Fetrow, P. Rapnicki, S. Stewart, R. Farnsworth, T. Ames, T. Molitor, J. Johnson. 05/2005 – 03/2006. Title: Colostrum substitute feeding: immunoglobulin titration study. American Protein Corporation (APC). \$16,204.31
63. **Godden, S.** (PI). R. Bey (Co-PI), R. Dingwell, K. Leslie, P. Ruegg, L. Timms, J. Fetrow, R. Farnsworth, P. Rapnicki, S. Stewart. July 2005 – June, 2006. Title: Use of an on-farm culture system for the strategic treatment of clinical and subclinical intramammary infections. Fort Dodge Animal Health Inc. \$15,000 per year x 3 years
64. **Godden, S.** (PI). J. Fetrow, P. Rapnicki, S. Stewart, J. Carrier. Mar. 2005. Title: Detection and treatment of subclinical ketosis in periparturient dairy cows. Bayer Health Inc. 03/2005-12/2006 \$1,500 value gift of product
65. Jones, M. (Student), **Godden, S.** (PI). 07/2005-12/2005. Title: Validation of the Minnesota easy culture system II, an on-farm culture system. Undergraduate Research Opportunities Program (UROP). \$1,700
66. **Godden, S.** (PI), S. Stewart, P. Rapnicki, R. Farnsworth, J. Fetrow, J. Feirtag. 05/2005-08/2005. Title: On-farm study of the effect of feeding heat-treated colostrum on passive transfer of immunity in dairy calves. CVM Merck-Merial Summer Scholars Program. \$4000
67. Bey, R. (Co-PI), **S. Godden** (Co-PI), R. Farnsworth, S. Stewart, P. Rapnicki, J. Fetrow. 05/2005-08/2005. Title: Evaluation of an On-Farm Culture System for the Strategic Treatment of Clinical and Subclinical Mastitis in Dairy Cows. CVM Merck-Merial Summer Scholars Program. \$4000
68. **Godden, S.** (PI), J. Fetrow, P. Rapnicki, S. Stewart, J. Carrier. 01/05 – 12/06. Title: Detection and treatment of subclinical ketosis in periparturient dairy cows. Pfizer Animal Health – gift. \$5000
69. **Godden, S.** (PI), J. Fetrow, P. Rapnicki, S. Stewart, J. Carrier. 03/05 – 12/06. Title: Detection and treatment of subclinical ketosis in periparturient dairy cows. Elanco Animal Health – gift. \$5000
70. Leslie, K. (PI), D. Kelton, **S. Godden**, R. Dingwell, A. Bashiri, L. Wright. 01/05-12/06. Title: The impact of negative energy balance on udder health in dairy cattle. Ontario Ministry of Agriculture and Food Research Program \$ 49,200 (Cdn)
71. Burton, J. (PI), R. Erskine, L. Neuder, and **S. Godden**. 9/04-8/06. Title: Blood steroids as potential

- predictors and targets of improved calving behavior and reduced peripartum disease in dairy cows. A.I.C. \$67,000
72. **Godden, S.** (PI), S. Wells (co-PI), J. Fetrow, J. Feirtag. Title: Evaluation of control points to reduce transmission of *Mycobacterium avium* subspecies *paratuberculosis* in dairy cattle. 8/04-7/05
USDA – APHIS – VS. \$ 84,920
 73. **Godden, S.** (PI), S. Wells (co-PI), I. Gardner (co-PI), J. Fetrow, J. Stabel. 2004. Title: Evaluation of critical control points in youngstock and adult dairy cow management to reduce transmission of *Mycobacterium avium* subspecies *paratuberculosis*. 7/01/04 – 6/30/08. USDA – CSREES. \$454,506 (\$323,492 to MN)
 74. **Godden, S.** (PI), R. Bey (co-PI), R. Dingwell, K. Leslie, L. Timms, P. Ruegg, J. Fetrow, R. Farnsworth, S. Stewart, P. Rapnicki. Title: Use of an on-farm culture system for the strategic treatment of clinical and subclinical intramammary infection. 10/1/04-30/9/07
Minnesota Agricultural Experiment Station (MAES) \$75,000 (\$25,000/yr x 3yrs)
 75. **Godden, S.** (PI), J. Fetrow, S. Stewart, P. Rapnicki, J. Carrier. Title: Detection and treatment of subclinical ketosis in periparturient dairy cows. Minnesota Rapid Agricultural Response Fund 7/04-6/05. \$50,000
 76. R. Bey (PI), S. Stewart, R. Farnsworth, P. Rapnicki, J. Fetrow, **S. Godden**. Title: Use of bulk tank milk bacteriology to monitor and improve milk quality in Minnesota dairy herds. 7/04-6/05. Minnesota Rapid Agricultural Response Fund \$30,000
 77. Fetrow, J. (PI), R. Bey, **S. Godden**, S. Wells. Title: Johne's disease and enteric pathogen transmission control: can a monitoring process be developed to assess fecal-oral transfer of organisms at calving and can muzzling newborn calves reduce transmission? 7/04-6/05. Minnesota Rapid Agricultural Response Fund \$25,000
 78. Kapur, V. (PI), S. Wells (PI), et al. **S. Godden** one of 76 collaborators. Title: Johne's Disease Integrated Program in Research, Education, and Extension. USDA – CSREES. \$4 million (\$375,476 to Minnesota) funded 2004-2008.
 79. Leslie, K.E. (PI), **S. Godden**, A. Sage, N. Perkins, E. Vernooy, B. Groves, R. Graham. Title: A study of the effect of OrbeSeal® dry cow internal teat sealer on immunoglobulin content and bacteriological quality of colostrum and on success of passive transfer. 1/04-6/04. Pfizer Animal Health, Inc. \$14,325 (Cdn)
 80. Leslie, K.E. (PI), **S. Godden**, D. McKnight. Title: Strategies to enhance the survival, health and growth of newborn dairy calves. Dairy Farmers of Ontario. 1/04-12/05 \$69,000 (Cdn.)
 81. Dingwell, R. (Co-PI), **S. Godden** (Co-PI), R. Bey (Co-PI), R. Farnsworth, S. Stewart, K. Leslie, D. Kelton, Y. Schukken, H. Barkema, G. Keefe. Title: Comparison of duplicate and single quarter milk samples for the identification of intramammary infections in early and mid-to-late lactation dairy cows. Pfizer Animal Health – unrestricted grant. \$5000 01/2004 – 07/2004
 82. Leslie, K.E. (PI), T. Duffield, S. LeBlanc, **S. Godden** (PI in MN). Title: Development of a system to detect and resolve negative energy balance before calving to reduce calf losses and to prevent postparturient problems in dairy cows. Dairy Farmers of Canada. \$96,400 (Cdn.) 01/2004 – 12/2005
 83. Dingwell, R. (Co-PI), **S. Godden** (Co-PI), R. Bey (Co-PI), R. Farnsworth, S. Stewart, K. Leslie, D. Kelton, Y. Schukken, H. Barkema, G. Keefe. Title: Comparison of duplicate and single quarter milk samples for the identification of intramammary infections in early and mid-to-late lactation dairy cows. National Dairy Herd Improvement Association – gift. \$5000 08/2003 – 07/2004
 84. **Godden, S.** (PI), S. Wells, J. Fetrow, E. Raizman, R. Bey, L. Metzger, J. Feirtag, S. Stewart, P. Rapnicki, and J. Stabel. Title: Improving colostrum and milk feeding management in dairy herds: Two key critical control points for Johne's Disease control programs. USDA-APHIS-Veterinary Services. \$103,000. 10/2003 – 9/2004.
 85. **Godden, S.** (PI), S. Wells, S. Stewart, P. Rapnicki, J. Fetrow, R. Bey, D. Borjesson, and H. Chester-

- Jones. Title: Improving colostrum management in dairy herds: A key critical control point for Johne's Disease control programs. 7/2003-6/2004. Minnesota Rapid Agricultural Response Fund. \$40,898
86. **Godden, S.** (PI), S. Stewart, and R. Bey. Title: Evaluation of feeding a commercial colostrum substitute on serum immunoglobulin concentrations, health, and performance in dairy calves. CVM Merck-Merial Summer Scholars Program. \$4000 05/03 – 08/03.
 87. Bey, R. (PI), **S. Godden** (Co-PI), and R. Farnsworth. Title: Evaluation of the effect of sample collection and culture strategies on mastitis culture results. CVM Merck-Merial Summer Scholars Program. \$4000 05/03 – 08/03
 88. Stewart, S. (Co-PI), and **S. Godden** (Co-PI). Title: Evaluation of urine and milk ketone tests for the diagnosis of subclinical ketosis and evaluation of an on-farm subclinical ketosis monitoring program. Elanco Animal Health (Division of Eli Lilly Co.) – gift. \$4000. 09/2002 – 01/2003.
 89. Stewart, S. (Co-PI), and **S. Godden** (Co-PI). Title: Evaluation of urine and milk ketone tests for the diagnosis of subclinical ketosis and evaluation of an on-farm subclinical ketosis monitoring program. Balchem Corporation – unrestricted grant. \$4000 09/2002 – 01/2003.
 90. Dohoo I.R. (PI), L. DesCoteaux, **S. Godden** (PI for MN), K. Leslie., and J. Campbell. Title: The effect of an eprinomectin treatment at calving on the productivity of non-pastured lactating dairy cows. Merial, Ltd. 2/02-9/03. \$209,139 (Cdn.) to five sites. \$16,000 (US) for the University of MN.
 91. **Godden, S.** (Co-PI), P. Rapnicki (Co-PI), S. Stewart, J. Fetrow, and A. Johnson. 2002. Title: Effectiveness of OrbeSeal[®] in the prevention of new intramammary infections during the dry period and early lactation in dairy cows when used with an intramammary antibiotic. Pfizer Animal Health, Inc. \$65,940. 03/2002 – 12/2002.
 92. **Godden, S.** (PI), J. Feirtag, S. Wells, and J. Fetrow. Title: Evaluation of efficacy, cost-effectiveness and practicality of on-farm pasteurization of waste milk to reduce transmission of *Mycobacterium avium* subsp. *paratuberculosis*. 3/2002-10/2002. U.S.D.A. - A.P.H.I.S. – V.S. \$9,876
 93. Wells, S. (PI), **S. Godden**, J. Fetrow, J. Collins, B. Hartman, P. Jordan, M. Murphy, and D. Weiss. Title: Identification of factors predisposing to clinical Johne's Disease and infection in Minnesota dairy herds. 2001-2002. Minnesota Rapid Agricultural Response Fund. \$125,000
 94. Fetrow, J. (Co-PI), S. Stewart (Co-PI), P. Rapnicki (Co-PI), and **S. Godden** (Co-PI). Title: Transition Management Facility (TMF) Partners – Operations Funding. Monsanto Dairy Business. \$390,000. 2001 – 2008.
 95. **Godden, S.** (PI). Survey of Minnesota dairy veterinarians: Jejunal hemorrhage syndrome in adult dairy cows. University of Minnesota Extension Service. \$150 2001.
 96. Wells, S. (PI), **S. Godden**, J. Fetrow, J. Collins, V. Kapur, and D. Weiss. Title: An integrated program to prevent and control Johne's disease in Minnesota cattle herds – Phase II. Minnesota Board of Animal Health. \$77,532 2001 – 2003.
 97. Wells, S. (PI), **S. Godden**, and J. Fetrow. Title: An integrated program to prevent and control Johne's disease in Minnesota cattle herds – Phase I. MN Board of Animal Health. \$157,200 2000 – 2001.
 98. Kaneene, J. (PI), S. Wells (PI for MN), L. Warnick, P. Ruegg, M. Saeed, R. Walker, J. Linz, R. Holland, L. Mansfield, **S. Godden**, and J. Fetrow. Title: Evaluation of risk factors for Salmonella and Campylobacter and drug resistance in dairy cattle and farmers. 1999-2002. USDA – NRIGCP Supplemental Epidemiology. \$114,642 for the U of MN (total \$670,000 to four institutions).

University Sources:

99. Crooker, B. (PI), **S. Godden**, J. Lippolis, J. Cole. Reducing mastitis in the dairy cow by increasing the prevalence of beneficial polymorphisms in genes associated with mastitis resistance. MN Rapid Agricultural Response Fund. \$233,324. 3/2019 – 2/2021.
100. Alexander, B. (PI), J. Bender, **S. Godden**, K. Schofield, B. Weichelt. Assessing and preventing

- occupational injuries in animal agriculture. UMASH. \$891,238. 9/2017-9/2021.
101. **Godden, S. (PI)**, R. Bisinotto (CoPI), J. Scheffers, K. Leslie, D. Haines, C. Murray. Investigation of the relationship between serum calcium status of the dam at parturition and survival, vigor, health and growth of neonatal dairy calves. CVM Hatch Funds. \$15,465. 7/2017-9/2017.
 102. **Godden, S. (PI)**, S. Wells, S. Sreevatsan, M. Cheeran, J. Stabel, D. Haines. Evaluation of a longer duration protocol to heat-treat bovine colostrum on colostrum characteristics, and on passive transfer, health and Johne's disease control in Minnesota dairy calves – Year 2. RARF. \$171,313. 6/2016-5/2017.
 103. Sreevatsan, S. (PI), M. Murtaugh, **S. Godden**, J. Stabel, J. Bannantine. A novel nanoparticle based mucosal delivery subunit vaccine against Johne's disease for use in neonatal calves. MN RARF. \$160,000 over 2 years. 1/2016-12/2018.
 104. **Godden, S. (PI)**, S. Wells, S. Sreevatsan, M. Cheeran, J. Stabel, D. Haines. Evaluation of a longer duration protocol to heat-treat bovine colostrum on colostrum characteristics, and on passive transfer, health and Johne's disease control in Minnesota dairy calves – Year 1. RARF. \$16,962. 7/1/15 – 6/12/16.
 105. Perez, A. (PI), J. Collins, S. Wells, R. Morrison, M. Torrelmorell, M. Craft, **S. Godden**, S. Sreevatsan, M. Murtaugh, A. Kircher, E. Enns. Management and analysis of big data for near real-time detection and early response to food animal threats. MN Global Food Venture. \$201,000. 2014.
 106. **Godden, S. (PI)**, T. Schoenfuss, R. Fink, J. Timmerman, C. Gebhart, E. Royster, S. Wells. Field validation of Matrix-Assisted Laser Desorption Ionization Time of Flight Mass Spectrometry (MALDI-ToF) for the identification of dairy microorganisms critical for safety and quality. CVM Hatch Formula Funds. \$72,892 over 2 years. 10/1/2014 – 9/30/2016.
 107. Wells, S. (PI), S. Sreevatsan, **S. Godden**, U. Sorge. Application of genomic epidemiology to understand transmission of *Mycobacterium avium* subsp. *paratuberculosis*. MN AES CVM Multistate Program. \$104,820. 3/2014-6/2017.
 108. **Godden, S. (PI)**, M. Endres (Co-PI), J. Fetrow, J. Reneau, M. Oakes, R. James, A. Stanton. Application of feeding behavior and body temperature measures to predict morbidity in group housed preweaned dairy calves. CVM Population Systems Signature Program. \$49,844. 10/2013-9/2014.
 109. **Godden, S. (PI)**, R. Chebel, M. Cheeran, H. Coetzee. The effect of oral meloxicam on pain sensitivity, immune function and health in dairy calves following cauterizing dehorning with a local anesthetic. CVM Animal Health Funds. \$49,925. 5/1/2012 to 9/30/2013.
 110. Sorge, U. (PI), B. Heins, J. Lombard, **S. Godden**, B. Stromberg, D. Kelton. An investigation of cattle health and management practices on organic dairy farms. CVM Population Systems. \$49,754. 10/2011 – 9/2012.
 111. Pelican, K. (PI), J. Ponder, M. Willette, P. Redig, D. Travis, W. Hueston, P. Davies, **S. Godden** and C. Cardona. Ecosystem health at the University of Minnesota: Confronting grand challenges in health at the intersection of animals, humans and the environment. CVM Population Systems. \$20,000. 10/2011 to 9/2012.
 112. **Godden, S. (PI)**, S. Wells, (Co-PI), J. Fetrow. Title: Evaluation of control points to reduce transmission of *Mycobacterium avium* subsp. *paratuberculosis* in dairy cattle. UMN – CVM Bridge funding. \$30,690. 1/15/10 – 12/31/10.
 113. **Godden, S. (PI)**, S. Wells, and J. Lombard. Title: Evaluation of biosecurity practices and development of a risk assessment tool to reduce transmission of *Mycobacterium bovis* on off-site calf ranches. UMN CVM One Health Program (GIFSL USDA), Inc. \$4,080. 1/1/2010 to 6/1/2010.
 114. **Godden, S. (PI)**, J. Fetrow (Co-PI), S. Sreevatsan, J. Bender, R. Bey, P. Rapnicki, S. Wells. Title: Development and Application of a Minnesota Dairy Health Surveillance Network. CVM - AES. \$278,244 for 2 years (6/2008-5/2010)
 115. Endres, M. (PI), **S. Godden (Co-PI)**, S. Wells, K. Janni, J. Smith. 3/07/2007 – 2/06/2010. Title: Evaluating Animal Performance and Welfare in Two New Dairy Housing Options in the Upper Midwest.

- Minnesota Rapid Agricultural Response Fund. \$99,649 over 2 years
116. Stewart, S., R. Bey, R. Farnsworth, J. Fetrow, **S. Godden**, T. Goldsmith, P. Rapnicki, B. Dokkebakken, S. Eicker, J. Lewis. July 1, 2006 – June 30, 2007. Title: Refinement of stationary panel readers for use with radio frequency ID (RFID) eartags in dairy cattle. MN RARF. \$33,000
 117. **Godden, S.** (PI), R. Bey, S. Stewart, P. Rapnicki, D. Haines, M. Van Amburgh. 07/2006 – 06/2007. Title: Improving colostrum quality and passive transfer in dairy calves. MN RARF. \$38,200
 118. **Godden, S.** (PI), R. Bey. Title: Effect of combining heat-treatment and use of preservatives on quality and shelf-life of stored bovine colostrum. 05/2006-08/2006. CVM Merck-Merial Summer Scholars Program. \$4000
 119. Bey, R. (PI), R. Farnsworth, S. Stewart, **S. Godden**, P. Rapnicki. Mar. 2005. Title: A new strategy for reducing antibiotic use and improving udder health on Minnesota dairy farms. 07/2005 – 06/2006. Agency: MN Rapid Agricultural Response Fund. \$100,000
 120. **Godden, S.** (PI). T. Ames, T. Molitor, J. Johnson, R. Bey, P. Rapnicki, S. Stewart, H. Chester-Jones. Mar. 2005. Title: Effect of feeding heat-treated colostrum, colostrum substitutes, and dam-to-calf feeding of colostrum on absorption and function of immunoglobulin and immune cell fractions in calves. 07/2005-06/2006. MN Rapid Agricultural Response Fund. \$50,000
 121. **Godden, S.** (Co-PI), S. Stewart (Co-PI), P. Rapnicki, J. Fetrow. Title: Dairy cow parturition behavior study. Minnesota Agricultural Experiment Station. \$14,000 09/2003 – 08/2004.
 122. **Godden, S.** (PI), J. Feirtag, S. Wells, and J. Fetrow. Title: Efficacy and practicality of pasteurizing colostrum as a management tool to control the spread of Johne's disease in Minnesota dairy herds. University of Minnesota Grant-in-Aid Program. \$20,784 2001 – 2002.
 123. **Godden, S.** (PI), J. Feirtag, S. Wells, and J. Fetrow. Title: Effect of pasteurizing waste milk on health and performance in dairy calves with emphasis on Johne's disease and Salmonellosis. Minnesota Agricultural Experiment Station. \$30,973 2000 – 2002.
 124. **Godden, S.** (PI), J. Feirtag, S. Wells, and J. Fetrow. Title: Effect of pasteurization of waste milk fed to dairy calves as it relates to food safety. Minnesota Food Safety/Quality Initiatives Grants. \$15,265. 2000 – 2002.
 125. Weiss, D. (PI), S. Wells, **S. Godden**, V. Kapur, J. Fetrow, B. Hartman, D. Hayden, and C. Lindemann. Title: A multidisciplinary approach to control/eradication of Johne's disease in Minnesota cattle herds. Minnesota Rapid Agricultural Response Fund. \$100,000 2000 – 2001.
 126. Wells, S. (PI), and **S. Godden**. Title: Detection of Mycobacterium paratuberculosis using age-clustered fecal culture pools. 1999-2001. University of Minnesota Grant-In-Aid of Research Program. \$18,322

Student Grants or Awards:

127. Patel, K. & U of MN MnDRIVE Global Food Ventures Graduate Fellowship. 2017-18. \$28,500.
128. Rowe, Sam. & VMED Graduate Program research assistantship for 1 year. \$26,000. 09/2017.
129. Patel, K. VMED Graduate Program travel fellowship. \$500. 9/2017.
130. Rowe, S. VMED Graduate Program travel fellowship. \$400. 9/2017.
131. Patel, K. & NMC Scholar Program Award to attend and speak at the 2017 Annual meeting of the National Mastitis Council. Approx. \$1500 value.
132. Knauer, W. & VMED Graduate Program Conference Travel Award to attend the 2016 Annual AABP conference in Charlotte, NC. 11/2016. \$500.
133. Knauer, W. & (PI), and **S. Godden (Co-PI)**. Randomized clinical trial investigating the effect of more liberal milk allowance in the days after birth on the health and growth of pre-weaned dairy calves. Land

- O' Lakes Inc. \$25,000 unrestricted gift. 1/2016.
134. Knauer, W.[&] 2016-2017 Doctoral Dissertation Fellowship award 5/2016-5/2017.
 135. J. Sorg[&] (DVM student) and **S. Godden, S.** (PI). Randomized clinical trial investigating the effect of more liberal milk allowance in the days after birth on the health and growth of pre-weaned dairy calves Investigating the relationship between passive transfer and response to early vaccination in Holstein dairy calves. CVM Merck Summer Scholars Program. \$4,500. 5/2016-8/2016.
 136. Knauer, W.[&] (PI), and **S. Godden, S.** (Co-PI). Calf health research program. Bella Ag, LLC. \$1,500 unrestricted gift. 01/22/2015.
 137. B. Stampfl[&] (DVM student) and **S. Godden** (PI). Investigating the relationship between passive transfer and response to early vaccination in Holstein dairy calves. CVM Merck Summer Scholars Program. \$4,500. 5/2014-8/2014.
 138. M. Thompson[&] (DVM student) and **S. Godden, S.** (PI). Supplementing poor quality colostrum with a colostrum replacer: Effects on passive transfer of IgG and calf health. CVM Summer Scholar's Program. \$4,500. 5/2013 to 8/2013.
 139. A. Kryzer.[&] and **S. Godden, S.** (PI). Effect of using a novel method to heat-treat small volumes of bovine colostrum on colostrum characteristics. CVM Summer Scholars Program. \$4,500. 5/2012 to 8/2012.
 140. N. Koewler[&] and **S. Godden,**(PI) and T. Molitor. Title: Effect of pasteurization on leukocyte activity in bovine colostrum. Merck-Merial Summer Scholars Program. \$5000. 6/2009 to 9/2009.
 141. **Godden, S.** (PI). Title: Relationship Between Bacteria Levels in Colostrum and Efficiency of Absorption of Immunoglobulin G in Newborn Dairy Calves. 06/2007-08/2007. Merck-Merial Summer Scholars Program. \$4000
 142. **Godden, S.** (PI), J. Feirtag, L. Metzger, R. Bey. 5/04-8/04. Title: Evaluation of the effect of pasteurization temperature and duration on immunoglobulin loss and pathogen viability in bovine colostrum. CVM Merck-Merial Summer Scholars Program. \$4000

3.b Publications

[&] Denotes graduate or professional veterinary student as author.

Refereed Journal Articles.

In preparation:

1. Fetrow, J., E. Royster, D. Morin, L. Molgaard, D. Wingert, J. Yost, M. Overton, M. Apley, **S. Godden**, R. Chebel, G. Cramer, U. Sorge, J. Scheifers, T. Goldsmith, D. Anderson, G. Hanzlizek, A. Dwyer, and L. Dwyer. Development and implementation of a national center of excellence in dairy production medicine education for veterinarians. *In preparation for J. Veterinary Medical Education.*

Submitted:

2. Leslie, K.L., B. Nelson, **S. Godden**, T.F. Duffield, T.J. DeVries, D.L. Renaud. Assessment of selenium supplementation by systemic injection at birth on pre-weaning calf health. *Submitted to Bov. Pract. 2019.*
3. Rowe, S.,* **S. Godden**, E. Royster, J. Timmerman, B. Crooker and M. Boyle. Cross-sectional study of the relationship between bedding materials, bedding bacteria counts and intramammary infection in late lactation dairy cows. *Submitted to J. Dairy Sci. 06/06/2019.*
4. Rowe, S.,* **S. Godden**, E. Royster, J. Timmerman, B. Crooker and M. Boyle. Cross-sectional study of the relationship between cloth udder towel management, towel bacteria counts and intramammary

infection in late lactation dairy cows. *Submitted to J. Dairy Sci.* 06/06/2019.

Accepted or in Press:

5. Patel, K.,* **S.M. Godden**, E. Royster, B.A. Crooker, J. Timmerman and L. Fox. Relationships between Bedding Materials, Bedding Bacteria Counts, Udder Hygiene, Milk Quality and Udder Health on United States Dairy Herds. *Accepted by J. Dairy Sci.* 06/29/2019.
6. Murphy, S., D. Kent, N. Martin, R. Evanowski, K. Patel, **S. Godden** and M. Wiedmann. 2019. Bedding and bedding management practices are associated with mesophilic and thermophilic spore levels in bulk tank raw milk. *J. Dairy Sci.* 102: *In press*
7. Fetrow, J., E. Royster, D. Morin, L. Molgaard, D. Wingert, J. Yost, M. Overton, M. Apley, **S. Godden**, G. Cramer, U. Sorge, J. Schefers, T. Goldsmith, R. Chebel, D. Anderson, G. Hanzlicek, K.A. Dwyer, and L. Dwyer. Development and Implementation of a National Center of Excellence in Dairy Production Medicine Education for Veterinary Students. *Accepted JVME Oct. 18, 2018*

Published:

8. Lombard, J., F. Garry, N. Urie, S. McGuirk, **S. Godden**, K. Sterner, T. Earleywine, D. Catherman, and J. Maas. 2019. Proposed dairy calf birth certificate data and death loss categorization scheme. *J. Dairy Sci.* 102:4704-4712.
9. Jenkins, S., E. Okello, P.V. Rossito, T.W. Lehenbauer, J. Champagne, M.C.T. Penedo, A.G. Arruda, **S. Godden**, P. Rapnicki, P.J. Gorden, L.L. Timms, and S.S. Aly. 2019. Molecular epidemiology of coagulase-negative Staphylococcus species isolated at different lactation stages from dairy cattle in the United States. *PeerJ* 7:e6749 <https://doi.org/10.7717/peerj.6749>
10. Foutz[&], C., **S.M. Godden**, J.B. Bender, F. Diez-Gonzalez, M.L. Akhtar, and A. Vatulin. 2018. Exposure to antibiotics through the milk diet or systemic therapy is associated with a transient increase in antimicrobial resistance in fecal *Escherichia coli* of dairy calves. *J. Dairy Sci.* 101:10126-10141
11. Afifi, M., F. Kabera, H. Stryhn, J. Roy, L. Heider, **S. Godden**, W. Montelpare, J. Sanchez and S. Dufour. 2018. Antimicrobial-based dry cow therapy approaches for cure and prevention of intramammary infections: a protocol for a systematic review and meta-analysis. *Animal Health Research Reviews.* 19:74-48. <https://doi.org/10.1017/S1466252318000051>
12. Knauer, W.[&], **S.M. Godden**, A. Dietrich, D. Hawkins, and R. James. 2018. Evaluation of applying statistical process control techniques to daily average feeding behaviors to detect disease in automatically fed group-housed preweaned dairy calves. *J. Dairy Sci.* 101:8135-8145
13. Knauer, W.A.[&], **S.M. Godden**, S.M. McGuirk, and J. Sorg. 2018. Randomized clinical trial of the effect of a fixed or increasing milk allowance in the first 2 weeks of life on health and performance of dairy calves. *J. Dairy Sci.* 101:8100-8109
14. Committee coauthor. **Godden, S.** A Guide to Calf Milk Replacers Types, Use and Quality. 2018. Bovine Alliance on Management and Nutrition (BAMN). https://www.aphis.usda.gov/animal_health/nahms/dairy/downloads/bamn/BAMN08_GuideMilkRepl.pdf
15. Patel, K.[&], **S. Godden**, E. Royster, J. Timmerman, B. Crooker, N. McDonald. 2017. Pilot Study: Impact of using a culture-guided selective dry cow therapy program targeting quarter-level treatment on udder health and antibiotic use. *Bov Pract.* 51:48-57
16. **Godden, S.**, E. Royster, J. Timmerman, P. Rapnicki and H. Green. 2017. Evaluation of an automated milk leukocyte differential test and the California mastitis test for detecting intramammary infection in early and late lactation quarters and cows. *J Dairy Sci.* 100:6527-6544
17. Knauer, W.A.[&], **S.M. Godden**, A. Dietrich, and R.E. James. 2017. The association between daily average feeding behaviors and morbidity in automatically fed group-housed pre-weaned dairy calves. *J Dairy Sci.* *JDS* 100:5642-5652
18. Jorgensen, M.W.[&], A. Adams-Progar[&], A.M. dePassille, J. Rushen, **S.M. Godden**, H. Chester-Jones,

- and M.I. Endres. 2017. Factors associated with dairy calf health in automated feeding systems in the Upper Midwest USA. *J Dairy Sci.* 100:5675-5686
19. Villettaz Robichaud, M.[&], D.L. Pearl, **S.M., Godden**, S. LeBlanc, and D.B. Haley. 2016. Systematic early obstetrical assistance at calving: I) Effects on dairy calves' stillbirth, vigor, and passive immunity transfer. *JDSci.* 100:691-702.
 20. Villettaz Robichaud, M.[&], D.L. Pearl, **S.M. Godden**, J. Rushen, S. LeBlanc and D.B. Haley. 2016. Systematic Early Obstetrical Assistance at Calving: II) Effects on Dairy Heifer Calves' Growth, Health, and Survival to Weaning. *JDSci.* 100:703-712.
 21. Knauer, W.A.[&], **S.M. Godden** and N. McDonald. 2016. Technical Note: Preliminary evaluation of an automated indwelling rumen temperature bolus measurement system to detect pyrexia in preweaned dairy calves. *J. Dairy Sci.* 99:9925-9930
 22. Hernandez, D., D.V. Nydam, **S.M. Godden**, L.S. Bristol, A. Kryzer, J. Ranum, D. Schaefer. 2016. Brix refractometry in serum as a measure of failure of passive transfer compared to measured immunoglobulin G and total protein by refractometry in serum from Holstein and Jersey calves. *The Veterinary Journal.* 211:82-87.
 23. **Godden, S.M.**, E. Royster, W. Knauer, Y. Schukken, M. Lopez-Benavides, J. Sorg, S. Leibowitz, and E.A. French. 2016. Randomized non-inferiority study evaluating the efficacy of a post-milking teat disinfectant for the prevention of naturally occurring intramammary infections. *J. Dairy Sci.* 99:3675-3687
 24. Villettaz Robichaud, M.[&], de Passillé, A.M., Pearl, D.L., LeBlanc, **S.M., Godden**, S.M., Pellerin, D., Vasseur, E., Rushen, J., and Haley, D.B. 2016. Calving management practices on Canadian dairy farms: Prevalence of practices. *J. Dairy Sci.* 99: 2391-2404
 25. Johnson, A.P., **S.M. Godden**, E. Royster, S. Zuidhof, B. Miller and J. Sorg. 2015. Randomized non-inferiority study evaluating the efficacy of two commercial dry cow mastitis formulations. *J. Dairy Sci.* 99:593-607.
 26. Brady, M.P.[&], **S.M. Godden** and D. Haines. 2015. Supplementing fresh bovine colostrum with gut active carbohydrates reduces passive transfer of immunoglobulin G in Holstein dairy calves. *J Dairy Sci.* 98:6415-6422.
 27. **Godden, S.M.**, S. Wells, M. Donahue, J. Stabel, J.M. Oakes, S. Sreevatsan, and J. Fetrow. 2015. Effect of feeding heat-treated colostrum on risk for infection with *Mycobacterium avium* subsp. *paratuberculosis*, milk production and longevity in Holstein dairy cows. *J Dairy Sci.* 98:5630-5641.
 28. Kryzer, A.A.[&], **S.M. Godden**, and R. Schell. 2015. Heat-treated (in single aliquot or batch) colostrum outperforms non-heat-treated colostrum in terms of quality and transfer of immunoglobulin G in neonatal Jersey calves. *J Dairy Sci.* 98:1870-1877.
 29. Windeyer, C.[&], K.E. Leslie, **S.M. Godden**, D.C. Hodgins, K.D. Lissemore, S.J. LeBlanc. 2015. Association of bovine respiratory disease or vaccination with serologic response in dairy heifer calves up to three months of age. *AJVR* 76:239-245
 30. Villettaz Robichaud, M.[&], **S.M. Godden**, D.M. Haines, D.B. Haley, D.L. Pearl, J. Rushen, and S. LeBlanc. 2014. Addition of gut active carbohydrates in colostrum replacer does not improve passive transfer of immunoglobulin G in Holstein dairy calves *J Dairy Sci.* 97:5700-5708
 31. Royster, E.[&], **S. Godden**, D. Goulart, A. Dahlke, P. Rapnicki, J. Timmerman. 2014. Evaluation of the Minnesota Easy Culture System II Bi-plate and Tri-plate system for identification of common mastitis pathogens in milk. *J. Dairy Sci.* 97:3648-3659
 32. Windeyer, C.[&], K.E. Leslie, **S.M. Godden**, D.C. Hodgins, K.D. Lissemore and S.J. LeBlanc. 2014. Factors associated with morbidity, mortality and growth of dairy heifer calves up to 3 months of age. *Prev Vet Med.* 113(2):231-240.
 33. Arruda, A.G.[&], **S. Godden**, P. Rapnicki, P. Gorden, L. Timms, S.S. Aly, T. Lehenbauer, and J. Champagne. 2013. Randomized non-inferiority clinical trial evaluating three commercial dry cow

- mastitis preparations: II. Cow health and performance in early lactation. *J Dairy Sci.* 96:6390-6399.
34. Espejo, L.A. [&], N. Kubat[&], **S. Godden**, S. Wells. 2013. Effect of delayed exposure of cattle to *Mycobacterium avium* subsp. *paratuberculosis* on subclinical and clinical Johne's disease. *AJVR* 74:1304-1310.
 35. Pithua, P[&]. L.A. Espejo[&], **S.M. Godden** and S.J. Wells. 2013. Is an individual calving pen from which manure is removed after calving better than a group calving pen for preventing peripartum transmission of *Mycobacterium avium* subsp. *paratuberculosis* in Holstein calves? Results from a field trial. *J Vet Res.* 95:398-404.
 36. Arruda, A.G. [&], **S. Godden**, P. Rapnicki, P. Gorden, L. Timms, S.S. Aly, T. Lehenbauer, and J. Champagne. 2013. Randomized non-inferiority clinical trial evaluating three commercial dry cow mastitis preparations: I. Quarter level outcomes. *J Dairy Sci* 96:4419-4435.
 37. Hausler, K. [&], **S. Godden**, M. Schneider, A. Lightfield, M. Bulthaus, and D. Haines. 2013. Investigation of the risk for violative meat residues in bob veal calves fed colostrum from cows dry treated with cephalixin benzathine. *J Dairy Sci* 96:2349-2355
 38. Windeyer, M.C. [&], K.E. Leslie, **S.M. Godden**, D.C. Hodgins, K.D. Lissemore, and S.J. LeBlanc. 2012. The effects of viral vaccination of dairy heifer calves on the incidence of respiratory disease, mortality and growth. *J. Dairy Sci.* 95:6731-6739
 39. **Godden, S.M.**, D.J. Smolenski, M. Donahue*, J.M. Oakes, R. Bey, S. Wells, S. Sreevatsan, J. Stabel and J. Fetrow. 2012. Heat-treated colostrum and reduced morbidity in preweaned dairy calves: Results of a randomized trial and examination of mechanisms of effectiveness. *J. Dairy Sci.* 95:4029-4040.
 40. Espejo, L.A. [&], **S. Godden**, W.L. Hartmann, and S.J. Wells. 2012. Reduction in incidence of Johne's disease associated with implementation of a disease control program in Minnesota demonstration herds. *J. Dairy Sci.* 95:4141-4152.
 41. Donahue, M. [&], **S.M. Godden**, R. Bey, S. Wells, J.M. Oakes, J. Fetrow, S. Sreevatsan, and J. Stabel. 2012. Heat-treatment of colostrum on commercial dairy farms reduces colostrum microbial counts while maintaining colostrum immunoglobulin G concentrations. *J. Dairy Sci.* 95:2697-2702..
 42. Chapinal, N., M.E. Carson[&], S.J. LeBlanc, K.E. Leslie, **S. Godden**, M. Capel, J.E.P. Santos, M.W. Overton, and T.F. Duffield. 2012. The association of serum metabolites in the transition period with milk production and early lactation reproductive performance. *J. Dairy Sci* 95:1301-1309.
 43. Lobeck, K.M. [&], M.I. Endres, K.A. Janni, **S.M. Godden**, J. Fetrow. 2011. Environmental characteristics and bacterial counts in bedding and milk bulk tank of low profile cross-ventilated, naturally ventilated and compost bedded pack dairy barns. *Applied Engineering in Agriculture.* 28-12.
 44. Lobeck, K.M. [&], M.I. Endres, E.M. Shane, **S.M. Godden**, and J. Fetrow. Animal welfare in cross-ventilated, compost-bedded pack and naturally ventilated dairy barns in the upper Midwest. *J. Dairy Sci.* 94:5469-5479.
 45. Lago, A. [&], **S.M. Godden**, R. Bey, P.L. Ruegg, and K. Leslie. 2011. The selective treatment of clinical mastitis based on on-farm culture results I: Effects on antibiotic use, milk withholding time and short-term clinical and bacteriological outcomes. *JDSci.* 94:4441-4456.
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Book Chapters

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1. **Godden, S.**, J.E. Lombard, and A.R. Wollums. Colostrum Management for Dairy Calves. Chapt. In *VCNA Food Animal Practice*. Submitted 3/2019.
2. **Godden, S.** and R. James. Colostrum and Milk Replacers. Chapter 21 in: *Large Animal Internal Medicine*, 6th Edition. Editor: Bradford P. Smith. © 2019. Elsevier Publishing. St. Louis, MO. *Submitted 05/2018*.

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3. Lago, A. and **S. Godden**. Use of Rapid Culture Systems to Guide Clinical Mastitis Treatment Decisions. Chapter in: *Veterinary Clinics of North America – Food Animal Practice*. Mastitis. Elsevier Press, Inc. November 2018. 34(3): 389-412.
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Scientific Presentations with Abstracts (Presenter indicated by * if other than S. Godden)

1. Patel, K.[&], **S. Godden**, E. Royster, J. Timmerman, B. Crooker, and L. Fox. Bedding bacteria counts (BBC) are associated with udder health...But what should our BBC Benchmarks be? Mastitis Research Workers Conferenc. Chicago, IL. Oct. 24-26, 2018
2. Rowe, S.M.^{*&}, **Godden, S.M.**, Royster, E., Timmerman, J., Crooker, B., Boyle, M. Investigation of the relationship between bedding bacteria count and intramammary infection in late lactation dairy cows. Mastitis Research Workers Conferenc. Chicago, IL. Oct. 24-26, 2018
3. **Godden, S.**, W. Knauer, K. Leslie, C. Gapinski*, K. Yorek, R. Hullinsky, C. Murray-Kerr, S. McGuirk, H. Coetzee, D. Haines. Effect of Implementing a Novel Calf Vitality Scoring System and Early Intervention Program on Pain Management in Newborn Dairy Calves. American Association of Bovine Practitioners, Phoenix, AZ, Sept. 13-15, 2018 (in press)
4. Murray-Kerr, C., K. Leslie*, **S. Godden**, W. Knauer, and S. McGuirk. Development of a newborn calf VIGOR scoring system. American Association of Bovine Practitioners, Phoenix, AZ, Sept. 13-15, 2018 (in press)
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6. Rowe, S.M., **Godden, S.M.**, Royster, E., Timmerman, J., Boyle, M. Investigation of the relationships between towel laundering practices, towel bacteria count and intramammary infection in late lactation dairy cows. American Association of Bovine Practitioners, Phoenix, AZ, Sept. 13-15, 2018 (in press)
7. Patel, K. ^{*&}, **S. Godden**, E. Royster, J. Timmerman, B. Crooker, and L. Fox. Investigation of the relationship between bedding bacteria counts, bedding characteristics and udder health on dairy farms using manure solids – preliminary results. American Association of Bovine Practitioners, Phoenix, AZ,

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8. Robichaud, M.^{*&}, D. Pearl, J. Rushen, **S. Godden**, S. LeBlanc, A.M. De Passillé, and D. Haley. Can calving assistance influence newborn dairy calf lying time? ISAE Congress. July 30 – Aug. 3, 2018. Charlottetown, PEI, Canada.
 9. Robichaud, M.^{*&}, D. Pearl, J. Rushen, **S. Godden**, S. LeBlanc, A.M. De Passillé, and D. Haley. Can calving assistance influence newborn dairy calf lying time? ADSA Annu Mtg. June 24-27, 2018. Knoxville, TN.
 10. **Godden, S.**, W. Knauer, K. Leslie*, C. Gapinski, K. Yorek, R. Hullinsky, C. Murray-Kerr, S. McGuirk, H. Coetzee, D. Haines. Effect of Implementing a Novel Calf Vitality Scoring System and Early Intervention Program on Pain Management in Newborn Dairy Calves. ADSA Annu Mtg. June 24-27, 2018. Knoxville, TN.
 11. Shoyama, F.M.^{*&}, J.L. Taya, S.J. Wells, J.R. Stabel, M.C. Cheeran, S. Sreevatsan, **S.M. Godden**. Effect of feeding heat-treated colostrum on humoral response to Mycobacterium avium subsp. paratuberculosis in neonatal dairy calves. International Coloquium on Paratuberculosis. June 4-8, 2018. Riviera Maya, Mexico.
 12. Patel, K.^{*&}, **S. Godden**, E. Royster, J. Timmerman, B. Crooker, and L. Fox. 2017. Investigation of the relationship between bacteria counts, bedding characteristics and bedding management practices with udder health and milk quality on dairy farms – preliminary results. Annu. Mtg of the Minnesota Dairy Health Conference. April 18-19, 2018. St. Paul, MN (Oral+Poster).
 13. Rowe, S. ^{*&}, **S. Godden**, E. Royster, D. Nydam, A. Lago, P. Gorden. Selective dry cow therapy on U.S. dairy farms: Impact on udder health, antimicrobial use and economics. Workers Conference. Annu. Mtg of the Minnesota Dairy Health Conference. April 18-19, 2018. St. Paul, MN (Oral+Poster).
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Presentations with Proceedings at Scientific and Veterinary Conferences (Speaker indicated by * if other than S. Godden)

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2. **S. Godden**, K. Patel, E. Royster, J. Timmerman, B. Crooker, and L. Fox. Relationships between bedding bacteria counts, bedding characteristics and udder health. Cowbelles Veterinary Meeting. Verona, NY. Dec. 13-14, 2018.
3. **S. Godden**, E. Royster, J. Timmerman, and K. Patel. Interested in selective dry cow therapy? Here's what we know so far. Cowbelles Veterinary Meeting. Verona, NY. Dec. 13-14, 2018.
4. **S. Godden**. Colostrum management for the dairy calf. Preconference seminar: The replacement heifer from birth to weaning. 51st Annu. Meeting of the AABP. , Phoenix, AZ, Sept. 13-15, 2018

5. **S. Godden.** Pasteurized milk feeding systems – Capturing the benefits and avoiding the pitfalls. Preconference seminar: The replacement heifer from birth to weaning. 51st Annu. Meeting of the AABP. , Phoenix, AZ, Sept. 13-15, 2018
6. **S. Godden.** Pros, cons and best management practices for group housing of preweaned dairy calves. Preconference seminar: The replacement heifer from birth to weaning. 51st Annu. Meeting of the AABP. , Phoenix, AZ, Sept. 13-15, 2018
7. Apley, M.D., **S.M. Godden**, K.J. Hope, and N.F. Schrag*. Antimicrobial use monitoring: A useful tool, or a disciplinary stick? 51st Annu. Meeting of the AABP. , Phoenix, AZ, Sept. 13-15, 2018
8. **S. Godden**, K. Patel, E. Royster, J. Timmerman, B. Crooker and L. Fox. Keynote address. Relationships between bedding bacteria counts, bedding characteristics and udder health: We have a lot more to learn. 2018 International Bovine Mastitis Conference. Milano, Italy. June 11-13, 2018.
9. **S. Godden**, K. Patel, E. Royster, J. Timmerman, B. Crooker and L. Fox. Relationships between bedding bacteria counts, bedding characteristics and udder health. National Mastitis Council Regional Meeting. Guelph Ont. Canada. June 20-22, 2018. Pp. 18-27.
10. **S. Godden.** Maximizing Calf Health and Performance I: It Starts with Management of the Pregnant Cow. 121st Annu MVMA Mtg. Feb. 15-17, 2018. Rochester, MN
11. **S. Godden.** Maximizing Calf Health and Performance II: Advances in Colostrum Management 121st Annu MVMA Mtg. Feb. 15-17, 2018. Rochester, MN
12. **S. Godden.** Using rapid culture systems to guide strategic treatment decisions for clinical mastitis. Series of Apiam Animal Health Veterinary Meetings:
 - a. Kyabram, Australia. June 29, 2017
 - b. Warrnambool, Australia. June 29, 2017
 - c. Maffra, Australia. July 3, 2017
13. **S. Godden.** Is it Squeaky clean? The 4th Q of colostrum management. Series of Apiam Animal Health Veterinary Meetings:
 - a. Kyabram, Australia. June 29, 2017
 - b. Warrnambool, Australia. June 29, 2017
 - c. Maffra, Australia. July 3, 2017
14. **S. Godden.** Update in colostrum management. College Science Week Conference. Gold Coast, Australia. July 6-8, 2017
15. **S. Godden.** Managing pasteurized milk systems for calves. College Science Week Conference. Gold Coast, Australia. July 6-8, 2017
16. **S. Godden.** Pros, cons and best management practices for computer feeding and group housing of preweaned dairy calves. College Science Week Conference. Gold Coast, Australia. July 6-8, 2017
17. **S. Godden.** Are your clients asking about selective dry cow therapy? Here's what you need to know. MVMA Lunch and Learn Program. St. Paul, MN. June 13, 2017.
18. **S. Godden.** Dry cow mastitis prevention. 4th Annual University of Minnesota China Dairy Conference. Xi'an, China. Nov. 13-15, 2017
19. **S. Godden.** Preconference seminar: Health management of the neonatal calf: Birth to weaning. 4th Annual University of Minnesota China Dairy Conference. Xi'an, China. Nov. 13-15, 2017
20. **S. Godden.** President's Report. Proc. Of the National Mastitis Council Annual Meeting. Jan. 28-31, 2017. St. Pete's Beach, FL.
21. **S. Godden.** Colostrum management for the dairy calf. Preconference seminar: The replacement heifer from birth to weaning. 50th Annu. Meeting of the AABP. Sept. 14-16, 2017. Omaha, NB.
22. **S. Godden.** Pasteurized milk feeding systems – Capturing the benefits and avoiding the pitfalls. Preconference seminar: The replacement heifer from birth to weaning. 50th Annu. Meeting of the AABP. Sept. 14-16, 2017. Omaha, NB.
23. **S. Godden.** Pros, cons and best management practices for group housing of preweaned dairy calves.

- Preconference seminar: The replacement heifer from birth to weaning. 50th Annu. Meeting of the AABP. Sept. 14-16, 2017. Omaha, NB
24. **S. Godden.** Advances in colostrum management. In Preconference seminar: Advances in dairy calf management – birth to weaning. MN Dairy Health Conference. April 11-3, 2017. St. Paul, MN.
 25. **S. Godden.** Pros, cons and best management practices for group housing of preweaned dairy calves. In Preconference seminar: Advances in dairy calf management – birth to weaning. MN Dairy Health Conference. April 11-3, 2017. St. Paul, MN.
 26. **S. Godden.** Topics in calf health management. Central Wisconsin Ag. Services Veterinary Group. 3/22/2017.
 27. **Godden.** Preconference seminar: Calf management from birth to weaning. 3rd University of Minnesota China Dairy Conference. Yinchuan, China. Oct. 24-26, 2016
 28. **S. Godden.** Making pathogen-based mastitis treatment decisions on dairy farms. 3rd University of Minnesota China Dairy Conference. Yinchuan, China. Oct. 24-26, 2016
 29. **S. Godden.** Dry cow mastitis prevention. 3rd University of Minnesota China Dairy Conference. Yinchuan, China. Oct. 24-26, 2016
 30. **S. Godden.** Colostrum management for the dairy calf. Preconference seminar: The replacement heifer from birth to weaning. 49th Annu. Meeting of the AABP. Sept. 15-17, 2016. Charlotte, NC.
 31. **S. Godden.** Pasteurized milk feeding systems – Capturing the benefits and avoiding the pitfalls. Preconference seminar: The replacement heifer from birth to weaning. 49th Annu. Meeting of the AABP. Sept. 15-17, 2016. Charlotte, NC.
 32. **S. Godden.** Pros, cons and best management practices for group housing of preweaned dairy calves. Preconference seminar: The replacement heifer from birth to weaning. 49th Annu. Meeting of the AABP. Sept. 15-17, 2016. Charlotte, NC.
 33. **Godden, S.** Management of the Newborn Calf. 2016. Large Dairy Herd Management (LDHM) conference. May-14, 2016. Chicago, IL.
 34. **Godden, S., E. Royster, K. Patel[&], and J. Timmerman.** 2016. Selective dry cow therapy – We can do this! Proc. National Mastitis Council 2016 Regional Meeting. June 29-30, 2016. Appleton, WI. Pp.8-15.
 35. **S. Godden.** Dry cow mastitis control. 2016 Zoetis Transition Cow Management Workshop – ILT. Sept. 26-27, 2016. St. Peter, MN.
 36. **S. Godden.** Update on colostrum management. Wild West Vet Conference. 10/13/2016. Reno, NV.
 37. **S. Godden.** Management of pasteurized milk feeding systems. Wild West Vet Conference. 10/13/2016. Reno, NV.
 38. **S. Godden.** Pros, cons and best management practices for group-housed preweaned calves. Wild West Vet Conference. 10/13/2016. Reno, NV.
 39. **S. Godden.** Selective treatment of clinical mastitis and selective dry cow therapy. Wild West Vet Conference. 10/13/2016. Reno, NV.
 40. **S. Godden, B. Stampfl, S. Wells, S. Sreevatsan, M. Cheeran, J. Stabel, and D. Haines.** Heat-treating colostrum: Can we improve the protocol to better control Johne's disease? Annu. Mtg. of the Minnesota Dairy Health Conference. May 18-20, 2016
 41. **Knauer, W.*[&], S. Godden, A. Dietrich, and R.E. James.** Can we use day level feeding behaviors to predict disease in group housed pre-weaned dairy calves? Annu. Mtg. of the Minnesota Dairy Health Conference. May 18-20, 2016
 42. **S. Godden.** Dry cow mastitis prevention. B.I. 2016 Dairy Summit. Wisconsin Dells, WI. May 11-12, 2016.
 43. **S. Godden.** Pros, cons and bst management practices for group housing of pre-weaned dairy calves. B.I. 2016 Dairy Summit. Wisconsin Dells, WI. May 11-12, 2016.
 44. **S. Godden.** Pros, cons and bst management practices for group housing of pre-weaned dairy calves. B.I. 2016 National Dairy Summit. Bonita Springs, FL April 15-16, 2016.

45. **S. Godden.** Dry cow mastitis prevention. B.I. 2016 National Dairy Summit. Bonita Springs, FL April 15-16, 2016.
46. **S. Godden.** Calving management. Dairy Heifer Management Program. Crianza de Terneros y Vaquillas de Reemplazo en Ganado Bovino Lechero. March 3-4, 2016. University of Santiago. Santiago, Chile.
47. **S. Godden.** Newborn calf management, colostrum and colostrum replacers. Dairy Heifer Management Program. Crianza de Terneros y Vaquillas de Reemplazo en Ganado Bovino Lechero. March 3-4, 2016. University of Santiago. Santiago, Chile.
48. **S. Godden.** Health management and nutrition of the calf from birth to weaning. Milk substitutes and pasteurized milk feeding systems. Dairy Heifer Management Program. Crianza de Terneros y Vaquillas de Reemplazo en Ganado Bovino Lechero. March 3-4, 2016. University of Santiago. Santiago, Chile.
49. **S. Godden.** Digestive and respiratory disease – Management and prevention. Dairy Heifer Management Program. Crianza de Terneros y Vaquillas de Reemplazo en Ganado Bovino Lechero. March 3-4, 2016. University of Santiago. Santiago, Chile.
50. **S. Godden.** Update on colostrum management. WCABP 2016 Conference – Best of the Best. Jan. 14-16, 2016. Calgary, AB.
51. **S. Godden.** Pasteurized milk feeding systems: Capturing the benefits and avoiding the pitfalls. WCABP 2016 Conference – Best of the Best. Jan. 14-16, 2016. Calgary, AB.
52. **S. Godden.** Pros, cons and best management practices for group housing of preweaned dairy calves. WCABP 2016 Conference – Best of the Best. Jan. 14-16, 2016. Calgary, AB.
53. **S. Godden.** Maintaining calf wellbeing from birth to weaning. Annu. Meeting of the Atlantic Assoc. of Bovine Practitioners. Nov. 20-21, 2015. Moncton, NB, Canada.
54. **S. Godden.** Overview of calf management. 2015 Zoetis Brazil Technical Services Training. Sept. 20-25, 2015. St. Peter, MN.
55. **S. Godden.** Managing pasteurized milk systems. 2015 Zoetis Brazil Technical Services Training. Sept. 20-25, 2015. St. Peter, MN.
56. **S. Godden.** Dry cow mastitis control. 2015 Zoetis Brazil Technical Services Training. Sept. 20-25, 2015. St. Peter, MN.
57. **S. Godden.** Update on colostrum management. Annu. Mtg. of the WI VMA. Oct. 8-11, 2015. Madison, WI.
58. **S. Godden.** Pasteurized milk feeding systems – Capturing the benefits and avoiding the pitfalls. Annu. Mtg. of the WI VMA. Oct. 8-11, 2015. Madison, WI.
59. **S. Godden.** Pros, cons and best management practices for group housing of preweaned dairy calves. Annu. Mtg. of the WI VMA. Oct. 8-11, 2015. Madison, WI.
60. **S. Godden.** Update on colostrum management. Annu. Mtg. of the South Dakota VMA. Aug. 9-12, 2015. Sioux Falls, SD.
61. **S. Godden.** Pasteurized milk feeding systems – Capturing the benefits and avoiding the pitfalls. Annu. Mtg. of the South Dakota VMA. Aug. 9-12, 2015. Sioux Falls, SD.
62. **S. Godden.** Pros, cons and best management practices for group housing of preweaned dairy calves. Annu. Mtg. of the South Dakota VMA. Aug. 9-12, 2015. Sioux Falls, SD.
63. **S. Godden.** Colostrum management for the dairy calf. Preconference seminar: The replacement heifer from birth to weaning. 48th Annu. Meeting of the AABP. Sept. 17-19, 2015. New Orleans, LA.
64. **S. Godden.** Pasteurized milk feeding systems – Capturing the benefits and avoiding the pitfalls. Preconference seminar: The replacement heifer from birth to weaning. 48th Annu. Meeting of the AABP. Sept. 17-19, 2015. New Orleans, LA.
65. **S. Godden.** Pros, cons and best management practices for group housing of preweaned dairy calves. Preconference seminar: The replacement heifer from birth to weaning. 48th Annu. Meeting of the AABP. Sept. 17-19, 2015. New Orleans, LA.
66. **S. Godden.** Effect of feeding heat-treated colostrum on risk for infection with *Mycobacterium avium*

- subsp. Paratuberculosis, milk production and longevity in Holstein dairy cows. 48th Annu. Meeting of the AABP. Sept. 17-19, 2015. New Orleans, LA.
67. **S. Godden.** Overview of calf management. 2015 Zoetis CLAR Technical Services Training. April 12-17, 2015. St. Peter, MN.
 68. **S. Godden.** Managing pasteurized milk systems. 2015 Zoetis CLAR Technical Services Training. April 12-17, 2015. St. Peter, MN.
 69. **S. Godden.** Dry cow mastitis control. 2015 Zoetis CLAR Technical Services Training. April 12-17, 2015. St. Peter, MN.
 70. **S. Godden.** Dry cow mastitis control. QMAX Veterinarian Training Meeting. April 12-17, 2015. St. Peter, MN.
 71. **S. Godden.** Pros, cons and best management practices for group housing of preweaned dairy calves. Annu. Meeting of the MN Dairy Health Conference. May 6-8, 2015. Bloomington, MN.
 72. **S. Godden.** Pasteurized milk feeding systems – Capturing the benefits and avoiding the pitfalls. Annu. Meet of the Ontario Assoc. of Bov. Pract. April 8-9, 2015. Guelph, Ont. Canada.
 73. **S. Godden.** Pros, cons and best management practices for group housing of preweaned dairy calves. Annu. Meet of the Ontario Assoc. of Bov. Pract. April 8-9, 2015. Guelph, Ont. Canada.
 74. **S. Godden.** Advances in colostrum management. 2015 Virginia State Feed Association and Nutritional Management “Cow” College. Feb. 18-20, 2015. Roanoke, VA.
 75. **S. Godden.** Bedding culture results: How do these numbers relate to udder health? Annu. Mtg. Mastitis Research Workers. Feb. 4-5, 2015. Memphis, TN
 76. **S. Godden.** Update on Colostrum Management. Michigan Veterinary Conference. Jan. 30-Feb. 1, 2015. Lansing, MI
 77. **S. Godden.** Pasteurized milk feeding systems – Capturing the benefits and avoiding the pitfalls. Michigan Veterinary Conference. Jan. 30-Feb. 1, 2015. Lansing, MI
 78. **S. Godden.** Pros, cons and best management practices for group housing of preweaned dairy calves. Michigan Veterinary Conference. Jan. 30-Feb. 1, 2015. Lansing, MI
 79. **S. Godden.** Use of on-farm culture systems to guide strategic treatment of clinical mastitis. Michigan Veterinary Conference. Jan. 30-Feb. 1, 2015. Lansing, MI
 80. **S. Godden.** Heifer International: Working to end hunger and poverty in Kenya and Nepal. UMN Department of Animal Science Seminar Series. 12/8/2014.
 81. **S. Godden.** Colostrum management: Best practices and latest advances (gave talk twice). MN Dairy Conference and Expo. 12/04/2014. St. Cloud, MN.
 82. **S. Godden.** New trends in preweaned calf management. University of Minnesota China Dairy Conference. Nov. 3-4, 2014. Beijing, China.
 83. **S. Godden.** Exploring causes and control strategies of mastitis. University of Minnesota China Dairy Conference. Nov. 3-4, 2014. Beijing, China.
 84. **S. Godden.** Colostrum Management for the dairy calf. Preconference seminar: The Replacement Heifer from Birth to Calving. 47th Annu. Mtg. AABP. Sept. 16-17, 2014. Albuquerque, NM.
 85. **S. Godden.** Considerations in feeding pasteurized non-saleable milk to dairy calves. Preconference seminar: The Replacement Heifer from Birth to Calving. 47th Annu. Mtg. AABP. Sept. 16-17, 2014. Albuquerque, NM.
 86. **S. Godden.** Computer feeders and group housing for preweaned dairy calves: What have we learned?. Preconference seminar: The Replacement Heifer from Birth to Calving. 47th Annu. Mtg. AABP. Sept. 16-17, 2014. Albuquerque, NM.
 87. **S. Godden.** What’s new in colostrum management? Merck 2014 Calf and Heifer Management Conference. May 6-7, 2014. Montebello, Quebec.
 88. **S. Godden.** Managing pasteurized milk feeding systems. Merck 2014 Calf and Heifer Management Conference. May 6-7, 2014. Montebello, Quebec.

89. **S. Godden.** Pros, cons and best management practices for group housing of pre-weaned dairy calves. Merck 2014 Calf and Heifer Management Conference. May 6-7, 2014. Montebello, Quebec.
90. **S. Godden.** MALDI-ToF: Implications for mastitis service and research activities. Annu. Mtg of the Mastitis Research Workers Conference / NE-1048. Ghent, Belgium. Aug. 7-8, 2014.
91. **S. Godden,** E. Royster and J. Timmerman. Using on-farm culture systems to guide strategic treatment decisions for clinical mastitis. Short Course. National Mastitis Council Regional Meeting. Ghent, Belgium. Aug. 4-6, 2014.
92. **S. Godden.** Update on Colostrum Management. MN Dairy Health Conference. May 20-22, 2014. Minneapolis, MN
93. **S. Godden.** Group housing of preweaned calves: Pros, cons and best management practices. 117th Annu. Meet. MN VMA. Feb. 6-8, 2014. Minneapolis, MN.
94. **S. Godden,** E. Royster and J. Timmerman. Using on-farm culture systems to guide strategic treatment decisions for clinical mastitis. Short Course #10. National Mastitis Council 53rd Annu Meeting. Jan. 26-28, 2014. Fort Worth, TX.
95. Lago, A.*, **S.M. Godden,** P.L. Ruegg. 2014. Treat or not treat? Etiology-based treatment decisions for clinical mastitis. National Mastitis Council 53rd Annu Meeting. Jan. 26-28, 2014. Fort Worth, TX. Pg. 43-63.
96. **Godden, S.,** E. Royster, J. Timmerman. Using on-farm culture systems to manage mastitis. Video of short course made available on NMC website: <http://www.nmconline.org/> 10/2014
97. **S. Godden.** What's new in colostrum management? 2013 Midwest Veterinary Conference. Feb. 21-24, 2013. Columbus, OH.
98. **S. Godden.** Use of on-farm culture systems to guide strategic treatment of clinical mastitis cases. 2013 Midwest Veterinary Conference. Feb. 21-24, 2013. Columbus, OH.
99. **S. Godden.** Update on dry cow mastitis prevention. 2013 Midwest Veterinary Conference. Feb. 21-24, 2013. Columbus, OH.
100. **S. Godden.** Managing pasteurized milk feeding systems. 2013 Midwest Veterinary Conference. Feb. 21-24, 2013. Columbus, OH.
101. **S. Godden.** Johne's disease control: Updates from clinical trials. 2013 Midwest Veterinary Conference. Feb. 21-24, 2013. Columbus, OH.
102. **S. Godden.** Feeding and housing systems for preweaned dairy calves. 2013 Midwest Veterinary Conference. Feb. 21-24, 2013. Columbus, OH.
103. **S. Wells,** S. Godden. Control of Johne's disease in dairy herds. MN Board of Animal Health Meeting. St. Paul, MN. May 21, 2013.
104. **S. Godden.** Dry cow mastitis management. Q-Max Veterinarian Training – Quality Milk and Mastitis Module. St. Peter, MN. June 3, 2013.
105. **S. Godden.** Colostrum management. Annu. AVMA Mtg. Chicago, IL. July 20, 2013.
106. **S. Godden.** Pros, cons and best management practices for group housing. Annu. AVMA Mtg. Chicago, IL. July 20, 2013.
107. **S. Godden.** Managing pasteurized milk systems. Annu. AVMA Mtg. Chicago, IL. July 20, 2013.
108. **S. Godden.** Update on dry cow mastitis prevention. Proc. PAVMA 7th Keystone Veterinary Conference. Hershey, PA. Aug. 15-18, 2013.
109. **S. Godden.** Use of on-farm culture systems to guide strategic treatment of clinical mastitis cases. Proc. PAVMA 7th Keystone Veterinary Conference. Hershey, PA. Aug. 15-18, 2013.
110. **S. Godden.** Johne's disease control: Updates from clinical trials. Proc. PAVMA 7th Keystone Veterinary Conference. Hershey, PA. Aug. 15-18, 2013.
111. **S. Godden.** Pros, cons and best management practices for group housing of

- preweaned dairy calves. Proc. PAVMA 7th Keystone Veterinary Conference. Hershey, PA. Aug. 15-18, 2013.
112. **S. Godden.** Managing pasteurized milk feeding systems. Proc. PAVMA 7th Keystone Veterinary Conference. Hershey, PA. Aug. 15-18, 2013.
113. **S. Godden.** What's new in colostrum management? Proc. PAVMA 7th Keystone Veterinary Conference. Hershey, PA. Aug. 15-18, 2013.
114. **S. Godden.** Evaluation and use of colostrum replacers and heat-treating colostrum. Proc. Annu. WVMA Annual Conference. Oct. 10-13, 2013. Madison, WI.
115. **S. Godden.** Managing pasteurized milk feeding systems. Proc. Annu. WVMA Annual Conference. Oct. 10-13, 2013. Madison, WI.
116. **S. Godden.** Pros, cons and best management practices for group housing of preweaned dairy calves. Proc. Annu. WVMA Annual Conference. Oct. 10-13, 2013. Madison, WI.
117. **S. Godden.** Colostrum Management for the dairy calf. Preconference seminar: The Replacement Heifer from Birth to Calving. 46th Annu. Mtg. AABP. Sept. 17-21, 2013. Milwaukee, WI.
118. **S. Godden.** Considerations in feeding pasteurized non-saleable milk to dairy calves. Preconference seminar: The Replacement Heifer from Birth to Calving. 46th Annu. Mtg. AABP. Sept. 17-21, 2013. Milwaukee, WI.
119. **S. Godden.** Computer feeders and group housing for preweaned dairy calves: What have we learned?. Preconference seminar: The Replacement Heifer from Birth to Calving. 46th Annu. Mtg. AABP. Sept. 17-21, 2013. Milwaukee, WI.
120. **S. Godden.** Pros, cons and best management practices for computer feeders and group housing of preweaned dairy calves: Clinical forum. 46th Annu. Mtg. AABP. Sept. 17-21, 2013. Milwaukee, WI.
121. **S. Godden.** Calf care from birth to weaning. Zinpro Dairy Producer Tour. Menomonie, WI. Nov. 11, 2013.
122. **S. Godden.** Calf care from birth to weaning. Midwest Dairy Conference. St. Cloud, MN. Dec. 3, 2013.
123. **S. Godden, E. Royster, J. Timmerman.** 2013. Using On-Farm culture systems to manage clinical mastitis. ½ day short course. Midwest Dairy Conference. St. Cloud, MN. Dec. 4, 2013.
124. **S. Godden.** Calf care from birth to weaning. Zinpro Japanese veterinarian Visit. Eden Prairie, MN. Nov. 6, 2013.
125. **S. Godden, E. Royster, J. Timmerman.** 2013. Using On-Farm culture systems to manage clinical mastitis. 1-day preconference seminar. MN Dairy Health Conference. St. Peter, MN May 21, 2013.
126. **S. Godden.** 2013. Invited speaker. Effects of heat-treating colostrum on colostrum characteristics and calf health. ADSA 25th Discover Conference: New Developments in Immunity, Nutrition and Management of the Preruminant Calf. May 28-31, 2013. Itasca, IL.
127. **S. Godden, E. Royster, J. Timmerman.** Use of on-farm culture systems to guide strategic treatment of clinical mastitis: 3 hr short course. Annu. Mtg. NMC. Jan. 20-23, 2013. San Diego, CA.
128. **S. Godden.** Effect of feeding heat-treated colostrum on calf health and MAP transmission. JDIP Scientific Advisory Board monthly meeting. Oct. 17, 2012.
129. **S. Godden.** Feeding heat-treated colostrum reduces morbidity in preweaned dairy calves. 45th Annu. Mtg. AABP. Sept. 20-22., 2012 Montreal, QC.
130. **S. Godden.** Effect of heat-treatment on nutritional and immune factors in bovine colostrum. 45th Annu. Mtg. AABP. Sept. 20-22., 2012 Montreal, QC.
131. **S. Godden.** Feeding heat-treated colostrum reduces morbidity in preweaned dairy calves. Annu. Mtg. MN Dairy Health Conference. May 23-24, 2012. Minneapolis, MN.

132. **S. Godden.**Effect of heat-treatment on nutritional and immune factors in bovine colostrum. Annu. Mtg. MN Dairy Health Conference. May 23-24, 2012. Minneapolis, MN.
133. **S. Godden,** S. Wells*, I. Gardner, J. Fetrow, J. Stabel, L. Espejo, B. Knust, E. Patton. 2012. Evaluation of critical control points in dairy herd management to reduce transmission of *Mycobacterium avium* subsp. *paratuberculosis* - Results from controlled clinical trials, Paratuberculosis Forum, International Colloquium on Paratuberculosis, Sydney, Australia, Feb. 2012.
134. Espejo L. A. *, **Godden S,** Hartmann W. L., Wells S. J. 2012. Reduction in incidence of paratuberculosis infection in Minnesota Johne's disease demonstration dairy herds. International Colloquium on Paratuberculosis, Sydney, Australia, February 2012.
135. Wells SJ*, Kubat N, Espejo LA, and **Godden SM.** 2012. Effect of delaying exposure to *Mycobacterium avium* subsp. *Paratuberculosis* until adulthood on incidence of infection in adult dairy cows. International Colloquium on Paratuberculosis, Sydney, Australia, February 2012.
136. **Godden, S.** 2012. Control of *Mycobacterium avium* subsp. *paratuberculosis* on dairy operations. Universidad Santo Tomas Dairy Veterinary Conference: Optimizando la Vida Productiva de una Vaca. Nov. 20, 2012. Santiago, Chile.
137. **S. Godden.**Raising healthy calves – Your future herd profit center (3 hours). Universidad Santo Tomas Dairy Veterinary Conference Nov. 20, 2012. Santiago, Chile.
138. **S. Godden.**Raising healthy calves – Your future herd profit center. Zinpro Japanese Veterinary Tour. Oct. 8, 2012. St. Paul, MN.
139. **S. Godden.**Dry cow mastitis prevention. In: Pfizer QMAX Program. July 25, 2012. St. Peter, MN.
140. **S. Godden.**Colostrum Management for the Dairy Calf. In: Seminar 10 – The Replacement Heifer from Birth to Calving. 45th Annu. Mtg. AABP. Sept. 20-22, 2012. Montreal, Q
141. **S. Godden.**Considerations in Feeding Pasteurized Non-Saleable Milk to Dairy Calves. In: Seminar 10 – The Replacement Heifer from Birth to Calving. 45th Annu. Mtg. AABP. Sept. 20-22, 2012. Montreal, QC.
142. **S. Godden.**On-Farm cultures systems for diagnosis and strategic treatment of clinical mastitis cases. Dairy Health Management Certificate Program Reunion. University of Guelph. Guelph, Ontario. May. 29-31, 2012.
143. **S. Godden.**The 5 Q's of colostrum management: So, what is new? Dairy Health Management Certificate Program Reunion. University of Guelph. Guelph, Ontario. May. 29-31, 2012.
144. **S. Godden.**Control of *Mycobacterium avium* subsp. *paratuberculosis* on dairy operations. Dairy Health Management Certificate Program Reunion. University of Guelph. Guelph, Ontario. May. 29-31, 2012.
145. **S. Godden.**Dry cow mastitis prevention. University of Nairobi Veterinary College. May 3, 2012. Nairobi, Kenya.
146. **S. Godden.**The 5 Q's of colostrum management: So, what is new? Vermont VMA Winter Meeting. Burlington, VT. Feb. 12, 2012.
147. **S. Godden.**Pasteurizing milk and colostrum: Capturing the benefits and avoiding the pitfalls. Vermont VMA Winter Meeting. Burlington, VT. Feb. 12, 2012.
148. **S. Godden.**On-farm culture systems for diagnosis and strategic treatment of clinical mastitis. Vermont VMA Winter Meeting. Burlington, VT. Feb. 12, 2012.
149. **S. Godden.**Colostrum bacteria counts are associated with impaired calf health, and this is how... Mastitis Research Workers Meeting. Chicago, IL. Nov. 1-3, 2011.
150. **S. Godden.**Use of teat sealants and other strategies to prevent intramammary infections during the dry period. Q-Max Veterinarian Training Program – Quality Milk and Mastitis Module. St. Peter, MN. Mar. 14-16, 2011. Aug. 7, 2011.
151. **S. Godden.**Factors associated with antimicrobial resistance patterns in fecal *Escherichia coli* from Minnesota dairy calves from birth to four months of age. Annu. Mtg. Minnesota Dairy Health

- Conference. May 17-19, 2011. Bloomington, MN.
152. **S. Godden.** Avoiding pitfalls in feeding pasteurized waste milk to calves. Proc. Tri-State Dairy Nutrition Conference. April 19-20, 2011. Fort Wayne, IN. Pg. 97-110.
 153. **S. Godden.** Pasteurized milk feeding systems: capturing the benefits and avoiding the pitfalls. Proc. 20th Annu. Northeast Dairy Production Medicine Symposium. March 25-27, 2011. Syracuse, NY. Pg. 50-60.
 154. **S. Godden.** Controlling microbial risks associated with feeding colostrum. Proc. 20th Annu. Northeast Dairy Production Medicine Symposium. March 25-27, 2011. Syracuse, NY. Pg. 61-69.
 155. **S. Godden.** Colostrum management for dairy calves. In: Seminar 10 – The Replacement Heifer from Birth to Calving. 44th Annual Conference of the American Association of Bovine Practitioners. Sept. 22-24, 2011. St. Louis, MO.
 156. **S. Godden.** Pasteurized milk: Capturing the benefits and avoiding the pitfalls. In: Seminar 10 – The Replacement Heifer from Birth to Calving. 44th Annual Conference of the American Association of Bovine Practitioners. Sept. 22-24, 2011. St. Louis, MO.
 157. **S. Godden.** Pasteurizing milk and colostrum: Capturing the benefits and avoiding the pitfalls. Clinical Forum. 44th Annual Conference of the American Association of Bovine Practitioners. Sept. 22-24, 2011. St. Louis, MO.
 158. **S. Godden.** Management practices to reduce the risk of infectious disease transmission associated with feeding colostrum. 1st Simposium Internacional Biotecnologia Veterinaria. Guadalajara, Mexico. Dec. 9, 2011.
 159. **S. Godden.** Colostrum management for dairy calves. Western Veterinary Conference. 2/23/2011. Las Vegas, NV.
 160. **S. Godden.** Pasteurized milk feeding systems: Capturing the benefits and avoiding the pitfalls. Western Veterinary Conference. 2/23/2011. Las Vegas, NV.
 161. **S. Godden.** Johne's control programs. Western Veterinary Conference. 2/23/2011. Las Vegas, NV.
 162. **S. Godden.** On-farm culture systems and their potential role in mastitis control. Western Veterinary Conference. 2/23/2011. Las Vegas, NV.
 163. **S. Godden.** Emerging issues on Minnesota dairies. CVM Caffeinated Conversations meeting. St. Paul, MN. Oct. 21, 2010.
 164. **S. Godden.** CVM Dairy Research Update. Vita Plus Meeting. St. Paul, MN June 10, 2010.
 165. **S. Godden.** Prevalence of Methicillin resistant Staphylococcus aureus in bulk tank milk from Minnesota dairy herds – A pilot study. Mastitis Research Workers Mtg. Nov. 3-5, 2010. Atlanta, GA.
 166. **S. Godden.** Colostrum management for dairy calves. Proc. Preconference Seminar: Calf Management. At Minnesota Dairy Health Conference. St. Paul, MN. May 19, 2009.
 167. **Godden, S.** The 5 Q's of colostrum management: So what is new? Proc. Ontario Dairy and Veal Healthy Calf Conference. Stratford, Ont. Canada. Dec. 8, 2010.
 168. Carrier, J.*, **S. Godden**, J. Fetrow, P. Rapnicki. Subclinical ketosis: To treat or not to treat? Proc. ADSA Discover Conference. The Transition Cow: Biology and Management. Sept. 20-23, 2010. Champagne, IL.
 169. **Godden, S.** 2010. Your future herd profit centre = your calves. British Columbia Dairy Expo. Vancouver, BC. January 28, 2010.
 170. **S. Godden.** The 5 Q's of colostrum management: So, what is new? Digal Dairy Conference. Delicias, Chih, Mexico. Sept. 9-11, 2010.
 171. **S. Godden.** Strategies to prevent intramammary infection during the dry period. Digal Dairy Conference. Delicias, Chih, Mexico. Sept. 9-11, 2010.
 172. **S. Godden.** Colostrum management for dairy calves. In: Seminar 10 – The Replacement Heifer from Birth to Calving. 43rd Annual Conference of the American Association of Bovine Practitioners. Aug, 2010. Albuquerque, NM.

173. **S. Godden.**Pasteurized milk: Capturing the benefits and avoiding the pitfalls. In: Seminar 10 – The Replacement Heifer from Birth to Calving. 43rd Annual Conference of the American Association of Bovine Practitioners. Aug. 2010. Albuquerque, NM.
174. **S. Godden.**Colostrum management: Review of the basic principles. Intervet/Schering-Plough Animal Health Corporation Educational Seminar. Wisconsin Dells, WI. Aug. 5, 2010; Toledo, OH. Sept. 23, 2010; Minneapolis, MN, Sept. 17, 2010.
175. **S. Godden.**Diagnostics: On-farm culture systems for diagnosis of clinical mastitis in dairy cows. Intervet/Schering-Plough Animal Health Corporation Educational Seminar. Wisconsin Dells, WI. Aug. 5, 2010; Toledo, OH. Sept. 23, 2010; Minneapolis, MN, Sept. 17, 2010.
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178. **S. Godden.**Colostrum management for dairy calves. In: Seminar 10 – The Replacement Heifer from Birth to Calving. 42nd Annual Conference of the American Association of Bovine Practitioners. Sept. 10-12, 2009. Omaha, NB.
179. **S. Godden.**Pasteurized milk: Capturing the benefits and avoiding the pitfalls. In: Seminar 10 – The Replacement Heifer from Birth to Calving. 42nd Annual Conference of the American Association of Bovine Practitioners. Sept. 10-12, 2009. Omaha, NB.
180. **S. Godden.**University of Minnesota Johne’s Disease Clinical Trials Update. Meeting of the Minnesota Board of Animal Health Advisory Committee on Johne’s Disease. St. Cloud, MN. July 30, 2009.
181. **S. Godden.**Advances in colostrum management. South Branch Symposium. Annu mtg of ADSA. Montreal, Qc. July 13-16, 2009.
182. **S. Godden.**Colostrum management for dairy calves. Universidad Santo Tomas Dairy Management Certificate Program. Vina del Mar, Chile. March 11, 2009.
183. **S. Godden.**Management to reduce microbial risks associated with feeding colostrum. Universidad Santo Tomas Dairy Management Certificate Program. Vina del Mar, Chile. March 11, 2009.
184. **S. Godden.**Pasteurized milk: Capturing the benefits and avoiding the pitfalls. Universidad Santo Tomas Dairy Management Certificate Program. Vina del Mar, Chile. March 11, 2009.
185. **S. Godden.**Use of teat sealants and other management strategies to prevent intramammary infections during the dry period. Universidad Santo Tomas Dairy Management Certificate Program. Vina del Mar, Chile. March 10, 2009.
186. **S. Godden.**Microbial risks associated with feeding colostrum to calves. Annu. Mtg. Southwest Nutrition and Management Conference. Tempe, AZ. Feb. 26-27, 2009.
187. **S. Godden.**Calf health management investigation. 2009 Annu. Mtg. North American Vet Conference. Orlando, FL. Jan. 17-21, 2009. CD pg. 24-26.
188. **S. Godden.**Pros, cons and management tips for pasteurized milk feeding systems. 2009 Annu. Mtg. North American Vet Conference. Orlando, FL. Jan. 17-21, 2009. CD pg. 19-23.
189. **S. Godden.**Colostrum management for dairy calves. 2009 Annu. Mtg. North American Vet Conference. Orlando, FL. Jan. 17-21, 2009. CD pg. 11-18.
190. **Godden, S** Dry cow and fresh cow management in mastitis prevention. Q-MAX Veterinarian Training. Quality Milk and Mastitis Module 2. New Sweden Dairy. New Sweden, MN. Sept. 23, 2009; New Sweden, MN. Oct. 14, 2009
191. **Godden, S** Using on-farm mastitis cultures to drive therapy decisions. Q-MAX Veterinarian Training. Quality Milk and Mastitis Module 2. New Sweden Dairy. New Sweden, MN. Sept. 23, 2009; New Sweden, MN. Oct. 14, 2009

192. **Godden, S.** Metabolic diseases of ruminants – ketosis and fatty liver. Pfizer TCRA Module. New Sweden Dairy. New Sweden, MN. Aug. 20, 2009.
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198. **Godden, S.** 2009. Pros, cons and management tips for pasteurized milk feeding systems. 2009 Annu. Mtg. North American Vet Conference. Orlando, FL. Jan. 17-21, 2009. CD pg. 19-23.
199. **Godden, S.** 2009. Colostrum management for dairy calves. 2009 Annu. Mtg. North American Vet Conference. Orlando, FL. Jan. 17-21, 2009. CD pg. 11-18.
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202. **S. Godden.** Effect of two bedding conditioners on bacteria counts and pH in shavings, digested manure solids and recycled sand bedding. Proc. 41st Annu Meet AABP. Charlotte, NC. Sept. 25-27, 2008. pg. 223
203. **Godden, S.** 2008. Pasteurizing Milk and Colostrum: Capturing the Benefits and Avoiding the Pitfalls. Midwest Dairy Expo. St. Cloud, MN Nov. 8, 2008. pg. 41-50.
204. **Godden, S.** 2008. University of Minnesota, College of Veterinary Medicine Dairy Research Update. Midwest Dairy Expo. St. Cloud, MN Nov. 8, 2008. pg. 15-26.
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206. **Godden, S.** 2008. Pasteurized milk feeding systems: Capturing the benefits and avoiding the pitfalls. Dairy Health Management Certificate Program Update Meeting. Guelph, Ontario. May 27-29, 2008.
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216. **Godden, S.** 2008. Colostrum management for dairy calves. Joint mtg. Ontario Agri-Business Association and Ontario Association of Bovine Practitioners. Guelph, Ontario. April 10, 2008. pg. 71-83.
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219. **Godden, S.** 2008. Calf care – Birth to weaning. Annu. Meet of the Minnesota Veterinary Medicine Association. Minneapolis, MN. Feb. 8, 2008.
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223. **S. Godden.** Colostrum management for dairy calves. 2008. In: Seminar 10 – The Replacement Heifer from Birth to Calving. 41st Annual Conference of the American Association of Bovine Practitioners. Sept. 22-27, 2008. Charlotte, NC.
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- and Ontario Association of Bovine Practitioners. Guelph, Ontario. April 10, 2008. pg. 71-83.
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 232. **S. Godden.** Biosecurity (infectious disease control) for dairy herds. Controle de doenças infecciosas em rebanhos leiteiros. XII Curso Novos Enfoques na Produção e Reprodução de Bovinos. Uberlândia – Minas Gerais, Brazil. March. 6-7, 2008.
 233. **S. Godden.** Use of teat sealants to prevent new intramammary infections during the dry period. Uso de selantes internos para tetos na prevenção de novas infecções no período seco. XII Curso Novos Enfoques na Produção e Reprodução de Bovinos. Uberlândia – Minas Gerais, Brazil. March. 6-7, 2008.
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 235. **S. Godden.** Calf care – Birth to weaning. 2008. Annu. Meet of the Minnesota Veterinary Medicine Association. Minneapolis, MN. Feb. 8, 2008.
 236. **S. Godden.** Do bedding conditioners work? Preliminary results from a Minnesota field study. NE-1028 Mastitis Research Workers Meeting. Minneapolis, MN. Nov. 7-9, 2007.
 237. **S. Godden.** Effect of feeding one or two doses of a colostrum-derived commercial colostrum replacer on passive transfer of immunoglobulin G in newborn dairy calves. AABP Annu. Meet. Sept. 20-22, 2007. Vancouver, British Columbia.
 238. **S. Godden.** Overview of calf nutrition and its impact on health. Dairy University. Intervet and U of MN CVM. July 16-20, 2007. Emerald, WI.
 239. **S. Godden.** Colostrum management for dairy calves. Dairy University. Intervet and U of MN CVM. July 16-20, 2007. Emerald, WI.
 240. **S. Godden.** Update on research areas in dairy production medicine. VitaPlus – Animal Science Joint Meeting. St. Paul, MN. July 26, 2007.
 241. **S. Godden.** Results of recent colostrum management projects at the University of Minnesota. Minnesota Dairy Health Conference. St. Paul, MN. May 16-17, 2007.
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251. **S. Godden.** Selecting for success at the University of Minnesota: Behavioral competency interviews and the VetFast program. Faculty Representative, Food Animal Educator, and Extension Veterinarian's Breakfast Meeting. AABP Annu. Meet. Sept. 21, 2007. Vancouver, B.C.
252. **S. Godden.** Colostrum management for dairy calves. Calf Management Conference. Steinkjer, Norway. June 20-22, 2007. 1 hr presentation June 21. 1 hr presentation on June 22.
253. **S. Godden.** Use of on-farm culture systems in mastitis control programs. Mastitis and Milk Quality – NMC Regional Meeting. May 22-23, 2007. Visalia, CA.
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255. **S. Godden.** Passive transfer of immunoglobulin G in dairy calves fed heat-treated colostrum. Minnesota Dairy Health Conference. St. Paul, MN. May 18, 2006.
256. **S. Godden.** Effects of feeding heat-treated colostrum on passive transfer in dairy calves. 2006 Annual Meeting of the American Dairy Science Association. July 9-13, 2006. Minneapolis, MN.
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- Leslie, and R. Dingwell. 2004. Strategies to prevent intramammary infections during the dry period. Cattle Symposium on Mastitis and BVD. *At bundesverband praktizierender tierärzte e.v. - Kongress (Federal association of practicing veterinary surgeons - Congress)*. Nürnberg, Germany. Nov. 5, 2004.
287. Cady, R., **S. Godden**, S. Stewart. 2004. Timing of the culling event. *In Proc. 8th Discover Conference on Food Animal Agriculture – A.D.S.A.* Nashville, IN. Oct. 3-6, 2004.
288. **Godden, S.** 2004. Put a stop to dry and fresh cow mastitis. *In Proc. National Mastitis Council Regional Meeting*. Bloomington, MN. June 20-30, 2004. pg. 6-18.
289. **Godden, S.** 2004. A review of issues surrounding the feeding of waste milk and pasteurization of waste milk and colostrum. *In Proc. Annual Dairy Health Management Update Meeting*. Guelph, Ont. May 26-27, 2004.
290. **Godden, S.** 2004. Colostrum management. *In Proc. Annual Dairy Health Management Update Meeting*. Guelph, Ont. May 26-27, 2004.
291. **Godden, S.** 2004. A review of issues surrounding the feeding of waste milk and pasteurization of waste milk and colostrum. *In Proc. Annu. Meet. Of the Minnesota Dairy Health Conference*. St. Paul, MN. May 18-20, 2004. pg. 7-19.
292. **Godden, S.** 2004. Colostrum management. *In Proc. Annu. Meet. Of the Minnesota Dairy Health Conference*. St. Paul, MN. May 18-20, 2004. pg. 20-32.
293. **Godden, S.** 2004. Considerations in pasteurizing waste milk and colostrum as critical control points in Johne's Disease control programs. *In Proc. Fort Dodge Animal Health - Dairy Focus 2004*. Wisconsin Dells, WI. May 13, 2004.
294. **Godden, S.** 2004. Colostrum management. *In Proc. Fort Dodge Animal Health - Dairy Focus 2004*. Wisconsin Dells, WI. May 13, 2004.
295. **Godden, S.** 2004. A review of considerations in pasteurizing waste milk and colostrum on dairy farms. *In proc. University of Guelph Dairy Management Certificate Program (Module 8)*. Guelph, Ontario. Jan. 20-22, 2004.
296. **Godden, S.** 2004. Colostrum management in dairy replacement heifers. *In proc. University of Guelph Dairy Management Certificate Program (Module 8)*. Guelph, Ontario. Jan. 20-22, 2004.
297. **S. Godden.** A review of issues surrounding the feeding of waste milk and pasteurization of waste milk and colostrum. *In Proc. Annual Dairy Health Management Update Meeting*. Guelph, Ont. May 26-27, 2004.
298. **S. Godden.** Colostrum management. *In Proc. Annual Dairy Health Management Update Meeting*. Guelph, Ont. May 26-27, 2004.
299. **S. Godden.** Considerations in pasteurizing waste milk and colostrum as critical control points in Johne's Disease control programs. *Fort Dodge Animal Health - Dairy Focus 2004*. Wisconsin Dells, WI. May 13, 2004.
300. **S. Godden.** Colostrum management. *Fort Dodge Animal Health - Dairy Focus 2004*. Wisconsin Dells, WI. May 13, 2004.
301. **S. Godden.** Health management for dairy calves. 2004 Ann. Meet. *Midwestern Section of the American Dairy Science Association and the American Society of Animal Science*. Des Moines, IA. March 15-16, 2004.
302. **S. Godden.** Evaluation of the California Mastitis Test to determine intramammary infection status at dry off and after calving. *Annual Meeting of the Mastitis Research Workers Conference*. Chicago, IL. Nov. 5-6, 2003.
303. **S. Godden.** Effectiveness of an internal teat sealant in the prevention of new intramammary infections during the dry and early lactation periods in dairy cows when used with an intramammary antibiotic. *Annual Meeting of the American Dairy Science Association*. Phoenix, AZ. June 22-26, 2003.
304. **S. Godden.** A review of issues surrounding the feeding of waste milk and pasteurization of waste milk and colostrum. *Annual Meeting of the Minnesota Dairy Health Conference*. St. Paul, MN. May 22,

2003.

305. **S. Godden.** Effectiveness of an internal teat sealant in the prevention of new intramammary infections during the dry and early lactation periods in dairy cows when used with an intramammary antibiotic. Annual Meeting of the Minnesota Dairy Health Conference. St. Paul, MN. May 22, 2003.
306. **S. Godden.** Effectiveness of an internal teat sealant in the prevention of new intramammary infections during the dry and early lactation periods in dairy cows when used with an intramammary antibiotic. University of Minnesota Production Animal Medicine Club. College of Veterinary Medicine, University of Minnesota. St. Paul, MN. Feb. 11, 2003.
307. **Godden, S.** 2003. Considerations in pasteurizing waste milk and colostrum as critical control points in Johne's Disease control programs. *In* United States Animal Health Association Johne's Disease Committee Final Report. San Diego, CA. Oct. 13, 2003. Pg. 3-4.
308. Fetrow, J.*, S. Stewart, S. Eicker, P. Rapnicki, **S. Godden.** 2003. Monitoring fresh cow programs. *In* Proc. Pacific Northwest Animal Nutrition Conference (CD format). Portland, OR. Oct. 7-9, 2003. Pg. 1-35.
309. **Godden, S.** 2003. Pasteurizing waste milk and colostrum on dairy farms. *In* Proc. Young Dairy Calf Management pre-conference seminar. 36th Annual Conference of the American Association of Bovine Practitioners. Columbus, OH. Sept. 15-16, 2003.
310. Carrier, J.*, Stewart, S., **Godden, S.**, Fetrow, J., and Rapnicki, P. 2003. Evaluation of three cow-side diagnostic tests for the detection of subclinical ketosis in fresh cows. *In* Proc. 4-State Applied Nutrition and Management Conference. La Crosse, WI. July 9-10, 2003.
311. **Godden, S.M.**, Stewart, S.C., Cady, R., Eicker, S.W., Fetrow, J.F., Rapnicki, P., Weiland, W., and Spencer, H. 2003. The relationship between herd rbST-supplementation and other factors and risk for removal for cows in Minnesota Holstein dairy herds. *In* Proc. 4-State Applied Nutrition and Management Conference. La Crosse, WI. July 9-10, 2003.
312. **Godden, S.**, P. Rapnicki, S. Stewart, A. Johnson, R. Bey, and R. Farnsworth. 2003. An evaluation of OrbeSeal[®] teat seal for prevention of intramammary infections in dry cows. *In* Proc. Annual Dairy Health Management Update Meeting. Guelph, Ont. May 28-29, 2003.
313. **Godden, S.**, J. Feirtag, L. Green, S. Wells, and J. Fetrow. 2003. A review of issues surrounding the feeding of waste milk and pasteurization of waste milk and colostrum. *In* Proc. Annu. Meet. of the Minnesota Dairy Health Conference. St. Paul, MN. May 20-22, 2003. Pg. 49-61.
314. **Godden, S.**, P. Rapnicki, S. Stewart, A. Johnson, R. Bey, and R. Farnsworth. 2003. Effectiveness of an internal teat sealant in the prevention of new intramammary infections during the dry and early lactation periods in dairy cows when used with an intramammary antibiotic. *In* Proc. Annu. Meet. of the Minnesota Dairy Health Conference. St. Paul, MN. May 20-22, 2003. Pg. 75-97.
315. **Godden, S.**, P. Rapnicki, S. Stewart, A. Johnson, R. Bey, and R. Farnsworth. 2003. Effectiveness of an internal teat sealant in the prevention of new intramammary infections during the dry and early lactation periods in dairy cows when used with an intramammary antibiotic. *In* Proc. 106th Annual Meeting of the Minnesota Veterinary Medical Association. Bloomington, MN. Feb. 6-8, 2003.
316. **Godden, S.**, P. Rapnicki, S. Stewart, A. Johnson, R. Bey, and R. Farnsworth. 2003. Effectiveness of an internal teat sealant in the prevention of new intramammary infections during the dry and early lactation periods in dairy cows when used with an intramammary antibiotic. *In* Proc. 42nd Annual Meeting of the National Mastitis Council. Fort Worth, Texas. Jan. 26-29, 2003. Pg. 136 – 152.
317. **S. Godden.** Considerations in pasteurizing waste milk and colostrum as critical control points in Johne's disease control programs. 107th Annual Meeting of the United States Animal Health Association. San Diego, CA. Oct. 13, 2003.
318. **S. Godden.** Perspectives on the dynamics of culling: a review of Minnesota DHIA records. Monsanto Dairy Science Symposium. St. Louis, MO. Aug. 1-3, 2003.
319. **S. Godden.** Drying off and management of cows at the transition management facility. Annual Dairy

- Health Management Update Meeting. Guelph, Ont. May 28-29, 2003.
320. **S. Godden.** Effectiveness of an internal teat sealant in the prevention of new intramammary infections in the dry period and early lactation when used with an intramammary antibiotic. Monsanto Peak Performance Workshop Series. Emerald, WI. Feb. 16-17, Feb. 17-18, May 6-7, May 7-8, June 10-11, June 11-12, 2003.
 321. **S. Godden.** A review of considerations in pasteurizing waste milk and colostrum on dairy farms. Monsanto Peak Performance Workshop Series. Emerald, WI. Emerald, WI. Feb. 16-17, Feb. 17-18, May 6-7, May 7-8, June 10-11, June 11-12, 2003.
 322. **S. Godden.** Perspectives on the dynamics of culling: review of MN DHIA records. Monsanto Dairy Business Scientific Advisor Meeting. St. Louis, MO. April 15-16, 2003.
 323. **S. Godden.** Perspectives on the dynamics of culling: review of MN DHIA records. Monsanto Dairy Business Associate Conference Call Series. St. Paul MN. Mar. 3, 4, 5, 6, and 7, 2003.
 324. **S. Godden.** Effectiveness of an internal teat sealant in the prevention of new intramammary infections during the dry and early lactation periods in dairy cows when used with an intramammary antibiotic. 106th Annual Meeting of the Minnesota Veterinary Medical Association. Feb. 8, 2003. Bloomington, MN (CD format).
 325. **S. Godden.** Effectiveness of an internal teat sealant in the prevention of new intramammary infections in the dry period and early lactation when used with an intramammary antibiotic. Annual Meeting of the National Mastitis Research Worker's Group and NE-1009 Regional Mastitis Project. Chicago, Illinois. November 13-15, 2002.
 326. **S. Godden.** Effect of pasteurization on *Mycobacterium paratuberculosis*, *E. coli* 0157:H7, *Salmonella* spp., *Listeria monocytogenes*, and *Staphylococcus aureus* in waste milk and colostrum. 35th Annual Conference of the American Association of Bovine Practitioners. Madison, WI. Sept. 26-28, 2002.
 327. **S. Godden.** Effects of automatic take-off settings on individual cow milking duration and milk production. Annual Meeting of the Minnesota Dairy Health Conference. St. Paul, MN. May 23, 2001.
 328. **S. Godden.** Scientific and practical considerations when implementing on-farm pasteurization systems for waste milk and colostrum. 2002. University of Minnesota Production Animal Medicine Club. St. Paul, MN. Apr. 5, 2002.
 329. Wells S.J.*, **S.M. Godden**, C. Lindeman, and J. Collins. 2002. Use of bacterial culture of fecal pools to identify Johne's disease infected herds. U.S.A.H.A. Annual Johne's Committee Meeting. St. Louis, MO, October 2002.
 330. **Godden, S.**, T. Ames, and R. Frank. 2002. Jejunal hemorrhage syndrome in adult dairy cows. *In Proc. Wild West Veterinary Conference.* Reno, Nevada. Oct. 9-13, 2002. Pg. 153-157.
 331. **Godden, S.**, and S. Wells. 2002. Developing Johne's disease control programs for dairy farms. *In Proc. Wild West Veterinary Conference.* Reno, Nevada. Oct. 9-13, 2002. Pg. 153-157.
 332. Wells S.J.*, **S.M. Godden**, R.H. Whitlock, and J. Collins. 2002. Interpretation of the ELISA for detection of *Mycobacterium paratuberculosis* in dairy cattle. *Proc. 7th International Colloquium on Paratuberculosis.* Bilbao, Spain, June 2002. Pg. 406-407.
 333. Raizman, E.*, S. Wells, **S. Godden**, and K. Petrini. 2002. Minnesota Johne's Disease control program. *Proc. 7th International Colloquium on Paratuberculosis.* Bilbao, Spain, June 2002. Pg. 511-512.
 334. **Godden, S.**, L. Green, J. Feirtag, S. Wells, and J. Fetrow. 2002. Scientific and practical considerations when implementing on-farm pasteurization systems for waste milk and colostrum. *In Proc. Annu. Meet. of the Minnesota Dairy Health Conference.* St. Paul, MN. May 21-23, 2002. Pg. 81-92.
 335. Stewart, S.*, **S. Godden**, S. Eicker, J. Fetrow, and P. Rapnicki. 2002. Culling patterns in lactation. *In Proc. Monsanto Dairy Science Symposium.* St. Louis, MO. Apr. 19-21, 2002. Pg. 54-70.

336. **Godden, S.**, Bey, R., Reneau, J., Farnsworth, R., and LaValle, M. 2002. Field validation of a milk line sampling device for monitoring udder health and milk component data. *In Proc. 41st Annu Meeting of the National Mastitis Council.* Orlando, FL. Feb. 3-6, 2002. Pg. 204-205.
337. **S. Godden.** Effectiveness of OrbeSeal[®] in the prevention of new intramammary infections in the dry period and early lactation when used with an intramammary antibiotic. *Scientific Advancements for Practice Success.* Pfizer Animal Health, Inc. Las Vegas, Nevada. Dec. 6, 2002.
338. **S. Godden.** Jejunal hemorrhage syndrome in adult dairy cows. *Wild West Veterinary Conference.* Reno, Nevada. Oct. 9-13, 2002.
339. **S. Godden.** Developing Johne's Disease control programs for dairy farms. *Wild West Veterinary Conference.* Reno, Nevada. Oct. 9-13, 2002.
340. **S. Godden.** Incidence of metabolic diseases of cattle in North America and Europe. *Elanco Animal Health Symposium: Metabolic Diseases of Transition Dairy Cows.* Greenfield, IN. June 25-26, 2002.
341. **S. Godden.** HACCP on Dairy Farms. *Safety and Biosecurity in Food Production Systems – Dairy Module.* St. Paul, MN. June 5-6, 2002.
342. **S. Godden.** Scientific and practical considerations when implementing on-farm pasteurization systems for waste milk and colostrum. *Annual Meeting of the Minnesota Dairy Health Conference.* St. Paul, MN. May 21-23, 2002.
343. **S. Godden.** Monitoring energy status in transition cows. *Transition Cow Peak Performance Workshop Series.* Emerald, WI. March 21-22, April 9-11, June 11-13, 2002.
344. **S. Godden.** Development of the University of Minnesota transition cow management facility as a teaching and research unit. *Conference for Researchers on Transition Cows.* Guelph, Ontario. Canada. Feb. 21-22, 2002.
345. **S. Godden.** Scientific and practical considerations when implementing on-farm pasteurization systems for waste milk and colostrum. *105th Annual Meeting of the Minnesota Veterinary Medical Association.* Bloomington, MN. Feb. 2, 2002.
346. **S. Godden.** Transition cow management – the key to profitable dairying. *New Ulm Regional Veterinary Meeting.* New Ulm, MN. Jan. 24, 2002.
347. **S. Godden.** A review of the pathophysiology, treatment and prevention of hypocalcemia in dairy cows. *Monsanto – University of Minnesota: Dairy Production Medicine Workshop.* St. Paul, MN. Feb. 22-23, 2001.
348. **S. Godden.** **Godden, S.** 2001. Clinical Trials Workshop – Field Trial Design. 2001. *In Proc. ABS Global Technical Services Training Meeting – Technical Solutions for Today's Dairies.* DeForest, WI. Sept. 28, 2001.
349. **Godden, S.**, S. Stewart, P. Rapnicki, D. Reid, A. Johnson, and S. Eicker. 2001. Effects of automatic take-off settings on individual cow milking duration and milk yield. *In Proc. 2nd International Symposium on Mastitis and Milk Quality.* Vancouver, BC, Canada. Sept. 13-15, 2001. Pg. 392-396.
350. Johnson, A.P.* , P. Rapnicki, R.F. Bey, R.J. Farnsworth, **S.M. Godden**, and S.C. Stewart. 2001. Standardized method to estimate potential for bacterial growth in bedding. *In Proc. 2nd International Symposium on Mastitis and Milk Quality.* Vancouver, BC, Canada. Sept. 13-15, 2001. Pg. 512-513.
351. Stewart, S.* , **S. Godden**, P. Rapnicki, and S. Eicker. 2001. Summary of early lactation DHIA somatic cell counts. *In Proc. 2nd International Symposium on Mastitis and Milk Quality.* Vancouver, BC, Canada. Sept. 13-15, 2001. Pg. 532-533.
352. **Godden, S.**, S. Stewart, P. Rapnicki, D. Reid, A. Johnson, and S. Eicker. 2001. Effects of automatic take-off settings on individual cow milking duration and milk production. *In Proc. Annual Minnesota Dairy Health Conference.* St. Paul, MN. May 22-24, 2001. Pg. 18-24.
353. **Godden, S.**, R. Frank. and T. Ames. 2001. Jejunal hemorrhage syndrome in adult dairy cattle: a preliminary survey of Minnesota dairy veterinarians. *In Proc. 104th Annual Meeting of the Minnesota Veterinary Medical Association.* Bloomington, MN. Feb. 1, 2001. Pg. 77-84.

354. Rapnicki, P.*, S. Stewart, **S. Godden**, D. Reid, and A. Johnson. 2001. Findings of a pilot study to evaluate the effects of planned changes to automatic detacher settings. *In Proc. N.R.A.E.S. Meeting: Milking Systems and Parlors: Planning and Managing for Quality Milk and Profitability*. Camp Hill, PA. Jan. 30-Feb. 1, 2001. Pg. 116-126.
355. **S. Godden**. Clinical trials workshop – field trial design. ABS Global Technical Services Training Meeting – Technical Solutions for Today’s Dairies. DeForest, WI. Sept. 28, 2001.
356. **S. Godden**. A review of the major enteric diseases of young dairy calves. Nutrena Calf College. St. Paul, MN. March 13, 2001.
357. **S. Godden**. Biosecurity principles for the control of Johne’s disease. Monsanto – University of Minnesota: Dairy Production Medicine Workshop. St. Paul, MN. Oct. 16, 2000.
358. **S. Godden**. An update on Johne’s research efforts at the University of Minnesota. Board of Animal Health Johne’s Interest Group Meeting for Veterinarians, Extension Agents, and Producers. St. Paul, MN. Sept. 26, 2000.
359. **S. Godden**. A review of test characteristics and other useful tidbits for the control of BVD and Johne’s disease. Dairy Production Medicine Workshop. St. Paul, MN. Aug. 24-25, 2000.
360. **S. Godden**. Analysis of Production using Dairy Comp 305. Dairy Comp 305 Advanced Mechanics Meeting I. St. Paul, MN. Feb. 24, 2000.
361. **S. Godden**. Analysis of Production using Dairy Comp 305. Dairy Comp 305 Beginner’s Meeting. St. Paul, MN. Feb. 22, 2000.
362. **S. Godden**. Evaluating a dairy’s data to make sound dairy management decisions. 103rd Annual Meeting of the Minnesota Veterinary Medical Association. Bloomington, MN. Feb. 4, 2000.
363. Buelow, K.*, S. Stewart, P. Rapnicki, and **S. Godden**. 2000. Case report – Integrating dairy nutrition, production and financial records. *The Bovine Practitioner*. 34(1):46-50.
364. **Godden, S.**, S. Stewart, and P. Rapnicki. 2000. A review of test characteristics and other useful tidbits for the control of BVD and Johne’s disease. 2000. *In Proc. Dairy Production Medicine Workshop*. St. Paul, MN. Aug. 24-25, 2000.
365. Martin, S.W.*, K. Lissemore, D. Kelton, A. Vonk Noordegraaf, **S. Godden, S.**, and V. Edge. 2000. The association between ration protein and the economic efficiency of milk production on Ontario dairy farms. *In Proc. 9th International Symposium on Veterinary Epidemiology and Economics*. Breckenridge, CO. August 6-11, 2000.
366. **Godden, S.**, J. Fetrow, S. Stewart, C. Walhof, J. Pankowski, and J. Vicini. 2000. Post-surgical survival and performance of Mid-west dairy cows with left displaced abomasum. *In Proc. Annual Minnesota Dairy Health Conference*. St. Paul, MN. May 23-25, 2000. Pg. 71.
367. Buelow, K.*, **S. Godden**, S. Stewart, and P. Rapnicki. 2000. Managing the high producing dairy cow for maximum production and minimum disease. *In Proc. Annual Minnesota Dairy Health Conference*. St. Paul, MN. May 23-25, 2000. Pg. 51-58.
368. Buelow, K., S. Stewart, **S. Godden**, and P. Rapnicki. 2000. Feeding management and monitoring for dairy consultation. *In Proc. Annual Minnesota Dairy Health Conference*. St. Paul, MN. May 23-25, 2000. Pg. 66-70.
369. **Godden, S.**, S. Stewart, P. Rapnicki, K. Buelow, and J. Fetrow. 2000. Alternative strategies for improving heat detection in dairy herds. *In Proc. Dairy Reproductive Management Workshop*. Rochester, MN. Mar. 14, 2000.
370. Buelow, K.*, and **S. Godden**. 2000. Evaluating a dairy’s data to make sound dairy management decisions. *In Proc. 103rd Annual Meeting of the Minnesota Veterinary Medical Association*. Bloomington, MN. Feb. 4, 2000.
371. **S. Godden**. A review of basic statistics for the practicing veterinarian. Monsanto Dairy Comp 305 Veterinary Consultant User Meetings. Woodbury, MN. June 11-12, 1999.
372. **S. Godden**. Analysis of Records of Production. Dairy Comp 305 Veterinary User Meetings. St.

- Cloud, MN. Apr. 15, 1999.
373. **S. Godden.** Analysis of Records of Production. Dairy Comp 305 Veterinary User Meetings. St. Paul, MN. Apr. 14, 1999.
 374. **S. Godden.** Analysis of Records of Production. Dairy Comp 305 Veterinary User Meetings. Rochester, MN. Apr. 13, 1999.
 375. **S. Godden.** Use of reproductive records to improve performance. Dairy Comp 305 Veterinary User Meetings. St. Cloud, MN. Mar. 4, 1999.
 376. **S. Godden.** Use of reproductive records to improve performance. Dairy Comp 305 Veterinary User Meetings. St. Paul, MN. Mar. 3, 1999.
 377. **S. Godden.** Use of reproductive records to improve performance. Dairy Comp 305 Veterinary User Meetings. Rochester, MN. Mar. 2, 1999.
 378. **Godden, S.,** K. Lissemore, D. Kelton, K. Leslie, J. Lumsden, and J. Walton. 1999. Results of an observational study describing the relationship between milk urea concentrations and feeding management and performance in Ontario dairy herds. *In Proc. 32nd Meeting of the American Association of Bovine Practitioners.* Nashville, TN. Sept. 1999. Pg. 196-197.
 379. **Godden, S.** S. Stewart, P. Rapnicki, K. Buelow, and D. Sockett. 1999. Biosecurity in Upper Midwest dairy herds. *In Proc. Annual Minnesota Dairy Health Conference.* St. Paul, MN. May 27, 1999. Pg. 124-144.
 380. **Godden, S.,** S. Stewart, P. Rapnicki, and K. Buelow. 1999. The veterinarian's role in managing reproductive programs. *In Proc. Annual Minnesota Dairy Health Conference.* May 26, 1999. College of Veterinary Medicine. University of Minnesota. St. Paul Campus. Pp 38-51.
 381. **Godden, S.** 1999. Relationship of milk urea nitrogen (MUN) to production and reproduction. *In Proc. 102nd Meeting of the Minnesota Veterinary Medical Association.* Feb. 4-6, 1999. Bloomington, MN. Pp. 25-33.
 382. Evaluation of a milk urea nitrogen assay. Dairy Health Management Certificate Program Annual Reunion. Guelph, ON. May 15-17, 1998.
 383. Jansen, J.*, **S. Godden,** K. Leslie, N. Smart, and D. Kelton. 1998. The effects of sampling time and freezing on the recovery of *Staphylococcus aureus* from quarters with subclinical mastitis. *In Proc. 37th Annual Meeting of the National Mastitis Council.* January 25-28. 1998. St. Louis, Missouri. Pg. 297-298.
 384. **S. Godden.** An investigation into the effect of sampling time and feeding management on diurnal variation in milk urea nitrogen. 30th Annual Meeting of the American Association of Bovine Practitioners. Montreal, QC. Sept. 18, 1997.
 385. **S. Godden.** Effect of sample type and handling on a milk urea nitrogen assay. Annual Meeting of the American Dairy Science Association. Guelph, ON. June 22, 1997.
 386. **S. Godden.** Effect of sample type and handling on a milk urea nitrogen assay. Dairy Health Management Certificate Program Annual Reunion. Guelph, ON. May 28, 1997.
 387. **S. Godden.** Evaluation of a milk urea nitrogen assay. Dairy Farmers of Ontario Seminar. Guelph, ON. May 15, 1997.
 388. **Godden, S.,** K. Lissemore, D. Kelton, K. Leslie, J. Lumsden, and J. Walton. 1997. Milk urea nitrogen levels in the Ontario dairy herd and their potential impact. *In Proc. Canadian Feed Industry Association - Eastern Nutrition Conference.* May 7, 1997. Guelph, ON. Pg. 178-185.
 389. **S. Godden.** Milk urea nitrogen - a review of the literature and a summary of current research. Dairy Health Management Certificate Program Annual Reunion. Guelph, ON. May 30, 1996.
 390. Interpreting Milk urea nitrogen: more questions than answers. Annual Conference of the Ontario Veterinary Medical Association. Ottawa, ON. Jan. 3, 1996.
 391. **Godden, S.,** K. Lissemore, D. Kelton, K. Leslie, J. Lumsden, and J. Walton. 1996. Preliminary results from a study evaluating the test characteristics of a milk urea nitrogen assay and the influence of

factors related to sample collection and handling. *In Proc.* 29th Annual Meeting of the American Association of Bovine Practitioners. Sept. 1996. Sandiego, CA. Pg. 169 - 170.

Godden, S., K. Lissemore, K. Leslie, D. Kelton, J. Lumsden, and J. Walton. 1996. Interpreting Milk urea nitrogen: more questions than answers. *In Proc.* Ontario Veterinary Medical Association Annual Conference. Jan. 3, 1996. Ottawa, ON. Pg. 257-265

Invited Presentations with Proceedings for Industry or Producer Groups

1. Calf Housing and Environment: One Cornerstone to a Successful Calf Program. Zinpro Producer Meetings. 3 hrs/day x 3 days (delivered talk 12 times). Northern Ireland. Sept 5-7, 2018
2. Raising the Perfect Heifer Calf: Your Future Herd Profit Center. 3 hours. Midwest Regional Meeting of the Student Affiliate Division for the ADSA. Jan. 27, 2018. St. Paul, MN.
3. Veterinary Perspectives on the Role of Bedding Management in Cow Comfort and Udder Health. MMPA Annu Mtg. Feb. 6, 2018. Rochester, MN.
4. Calf Health Management. Woodstock Vet Services Producer Meeting. Feb. 29, 2018. Woodstock, ON, Canada
5. Pros, Cons and Best Management Practices for Group Housing of Preweaned Calves. Embrun Vet Services Producer Meeting. Mar. 1, 2018. Embrun, ON, Canada
6. Use of rapid culture systems to guide treatment of clinical mastitis. Embrun Vet Services Producer Meeting. Mar. 1, 2018. Embrun, ON, Canada
7. Advances in Colostrum Management. DCHA Annu Mtg. April 10-12, 2018. Milwaukee, WI.
8. Feeding dairy calves: Do's and Don'ts. Anderson Vet Clinic Producer Meeting. Mar. 8, 2018. Zumbrota, MN
9. Selective Dry Cow Therapy. Anderson Vet Clinic Producer Meeting. Mar. 8, 2018. Zumbrota, MN
10. Raising the Perfect Heifer: Your Future Herd Profit Center. Boehringer Ingelheim Vetmedica Inc. Producer & Veterinary meetings.
 - a. Twin Falls, ID. Oct. 24, 2017
 - b. Caldwell, ID. Oct. 25, 2017
 - c. Sunnyside, WA, Oct. 26, 2017
11. Rearing the Perfect Calf. Advanced Ruminant Nutrition and Kite Consulting Producer Meetings.
 - a. Gretna Green, U.K., Aug. 7, 2017
 - b. Lancaster, U.K., Aug. 8, 2017
 - c. Ashbourne, U.K., Aug. 9, 2017
 - d. Eleesmere, U.K., Aug. 10, 2017
12. Calf health management. Diamond V German Producer Meeting. St. Peter, MN March 3, 2017.
13. Update on CVM Dairy Research Programs. Minnesota Dairy Growth Alliance Summit. June 22, 2017. St. Paul, MN.
14. Calf Health Management. Dairyland Producer Meeting. Plainview, MN. Feb. 16, 2017.
15. Basic approaches to making our calves bullet proof to disease. Boehringer Ingelheim Vetmedica Producer Meeting. May 20, 2017. Atlanta, GA.
16. Pros, cons and best management practices for group housing of preweaned dairy calves. 12th meeting of the Colloque sur La Santé Des Troupeaux Laitiers. 1 hour presentation plus 3 hrs producer workshops. Drummondville, QC, Canada. Dec. 7, 2016. Pg. 21-30.
17. Care of the neonatal calf: Your future profit center. Boehringer Ingelheim 'Keep Calves Healthy' Producer program.
 - a. Meeting 1: Nov. 29, Perry, NY.
 - b. Meeting 2: Nov. 30. Ithaca, NY (AM).

- c. Meeting 3: Attica NY.
18. Use of on-farm culture for guiding clinical mastitis treatment decisions. 3 hr Short course. National Mastitis Council 2016 Regional Meeting. Appleton, WI.
 19. Selective dry cow therapy – We can do this!. National Mastitis Council 2016 Regional Meeting. Appleton, WI. Pg. 8-15.
 20. Newborn care and colostrum management. MMPA Dairy Check-off Producer Meeting. Jan. 6, 2016. Little Falls, MN (120 producers)
 21. Update on colostrum management. B.I. Producer meeting. Nov. 19, 2015. Charlottetown, PEI, Canada.
 22. Pros, cons and best management practices for group housing and computerized feeding systems for pre-weaned calves. B.I. Producer meeting. Nov. 19, 2015. Charlottetown, PEI, Canada.
 23. Update on colostrum management. B.I. Producer meeting. Nov. 18, 2015. Truro, NS, Canada.
 24. Pros, cons and best management practices for group housing and computerized feeding systems for pre-weaned calves. B.I. Producer meeting. Nov. 18, 2015. Truro, NS, Canada.
 25. Calf health management. 3 day program for San Yuan Group. Zoetis, China. July 20-22, 2015. Beijing, China.
 26. Calf health management. 2 day program for Yili Group. Zoetis, China. July 23-24, 2015. Hohot, China.
 27. Update on colostrum management. Heartland Veterinary Services 21st Annual Dairy Day. Mar. 4, 2015. Listowel, Ont. Canada.
 28. Management and feeding of group-housed dairy calves. Heartland Veterinary Services 21st Annual Dairy Day. Mar. 4, 2015. Listowel, Ont. Canada.
 29. Update on colostrum management. Walkerton Veterinary Services Annual Dairy Day. Mar. 5, 2015. Walkerton, Ont. Canada.
 30. Management and feeding of group-housed dairy calves. Walkerton Veterinary Services Annual Dairy Day. Mar. 5, 2015. Walkerton, Ont. Canada.
 31. Contagious mastitis PCR and Prototheca. Foremost Farms 2015 MS&MM Rendezvous. April 13-15, 2015. St. Paul, MN
 32. Pros, cons and best management practices for group housing and computerized feeding systems for pre-weaned calves. Hoards Dairyman Webinar. June 8, 2015.
 33. Update on colostrum management. UMN DPEP Winter Dairy Series. Mar. 9, 2015. New Prague, MN
 34. Pros, cons and best management practices for group housing and computerized feeding systems for pre-weaned calves. UMN DPEP Winter Dairy Series. Mar. 9, 2015. New Prague, MN
 35. Update on colostrum management. UMN DPEP Winter Dairy Series. Dec. 11, 2014. Gaylord, MN.
 36. Pros, cons and best management practices for group housing and computerized feeding systems for pre-weaned calves. UMN DPEP Winter Dairy Series. Dec. 11, 2014. Gaylord, MN.
 37. Pros, cons and best management practices for group housing and computerized feeding systems for pre-weaned calves. Delivered three times over 3 days. PDPW Calf Care Connection. Oct. 28-30, 2014. Arlington, Chilton and Marshfield, WI.
 38. Colostrum management updates. Delivered three times over 3 days. PDPW Calf Care Connection. Oct. 28-30, 2014. Arlington, Chilton and Marshfield, WI.
 39. Pros, cons and best management practices for group housing and computerized feeding systems for pre-weaned calves. – Delivered twice. Large Herd Seminar. Bristol, UK. June 24-26, 2014.
 40. Johne's control: Getting it right. Large Herd Seminar. Bristol, UK. June 24-26, 2014.
 41. Colostrum Management – Getting them off to a great start. Large Herd Seminar. Bristol, UK. June 24-26, 2014.
 42. Pasteurizing milk and colostrum: Capturing the benefits and avoiding the pitfalls. Zoetis Calf Symposium. Lansing, MI. March 6, 2014.
 43. Monitoring pasteurized milk and colostrum feeding systems. Zoetis Calf Symposium. Lansing, MI. March 6, 2014.

44. Calf care – birth to weaning. Kirkton Vet Clinic producer meeting. Feb. 12, 2014. Kirkton, Ont.
45. Use of on-farm culture systems to guide strategic treatment of clinical mastitis cases. Kirkton Vet Clinic producer meeting. Feb. 12, 2014. Kirkton, Ont.
46. Calf care – birth to weaning. Milverton Vet Clinic producer meeting. Feb. 13, 2014. Milverton, Ont.
47. Use of on-farm culture systems to guide strategic treatment of clinical mastitis cases. Milverton Vet Clinic producer meeting. Feb. 13, 2014. Milverton, Ont.
48. Reflections on Heifer International – What I learned in Nepal. Heifer International BOD Meeting. June 12, 2013 and Sept. 21, 2013. Little Rock, AK.
49. Heifer International. Pax Christie Catholic Community School. Eden Prairie, MN Mar. 23, 2013.
50. Colostrum Management. Pfizer Animal Health Meeting for Producers. Emerald, WI. Feb. 19-20, 2007.
51. Kenya 2012: A visit to the East Africa Dairy Development Project with Heifer International. Annu. Minnesota Dairy Goat Breeders Conference. Nov. 10, 2012. St. Paul, MN
52. Kenya 2012: A visit to the East Africa Dairy Development Project with Heifer International. American Legion - Business and Professional Post No. 450. Oct. 18, 2012. Bloomington, MN
53. Thoughts on Application of PCR for Assessing Udder Health with DHIA Samples. Annu Mtg. MN DHIA. July 19, 2012. Chaska, MN.
54. What's New in Colostrum Management. Elanco 'Close the Gap' Producer Conference.. Mar. 20, 21, 2012. Minneapolis, MN.
55. What's new with colostrum management? Boehringer Ingelheim Dairy Management Summit. Feb. 29 – Mar. 1, 2012. Red Wing, MN.
56. Pasteurizing waste milk and colostrum – Capturing the benefits and avoiding the pitfalls. Boehringer Ingelheim Dairy Management Summit. Feb. 29 – Mar. 1, 2012. Red Wing, MN.
57. Colostrum management. Pfizer Dairy Manager Training Program. St. Peter, MN. 5/25/2011
58. Managing on-farm pasteurization systems. Pfizer Dairy Manager Training Program. St. Peter, MN. 5/25/2011
59. The 5 Q's of colostrum management: So what is new? Ontario Dairy and Veal Healthy Calf Conference. Stratford, Ont. Canada. Dec. 8, 2010.
60. Evaluation of biosecurity practices and development of a risk assessment tool to reduce transmission of *Mycobacterium bovis* on off-site calf ranches. University of Minnesota One Health Program. May 12, 2010. Minneapolis, MN.
61. The 5 Q's of Colostrum Management: So What is New? PDPW Producer Meetings. Chilton, WI (Oct. 12, 2010), Eau Claire, WI (Oct. 13, 2010).
62. Topics in Calf Management: Colostrum, Pasteurized Milk, Housing and Weaning. Producer Meeting. Boise, ID. April, 8, 2010.
63. Raising Healthy Calves: Birth to Weaning. Battkill (NY) Veterinary Clinic Producer Meeting. 2 hour teleconference presentation. Aug. 19, 2009.
64. Pasteurizing Milk and Colostrum: Capturing the Benefits and Avoiding the Pitfalls. Midwest Dairy Expo. St. Cloud, MN Nov. 8, 2008
65. Update on Latest Research from the College of Veterinary Medicine, University of Minnesota. Midwest Dairy Expo. St. Cloud, MN Nov. 8, 2008
66. Pasteurizing Milk and Colostrum. Annu Dairy Calf and Heifer Conference. Rochester, MN. April 1-3, 2008.
67. Optimizing vaccine performance through proper handling and vaccination. Gar-Lin Dairy Management Team Meeting. Eyota, Mn. Mar. 14, 2008.
68. Calf care – Birth to weaning. Dairy Herd Management and Health Clinic.
 - Arcadia, WI (1.25 hrs). Dec. 13, 2007.
 - Bangor, WI (1.25 hrs). Dec. 13, 2007.
69. Prevention and Control of Mycoplasma and other Frustrating Diseases of Dairy Calves. Vita Plus Calf

- “U”. Fond du Lac, WI. Aug. 1-2, 2007.
70. Pasteurizing Non-Saleable Milk and Colostrum. 25th Western Canadian Dairy Seminar. Mar. 6-9, 2007. Red Deer, Alberta, Canada.
 71. Developing Biosecurity Programs for Dairy Herds. 25th Western Canadian Dairy Seminar. Mar. 6-9, 2007. Red Deer, Alberta, Canada.
 72. Calf Health Management plus Pasteurization of Milk and Colostrum. First District YC Conference. Feb. 3, 2007. Alexandria, MN.
 73. Practical Methods of Feeding Clean Colostrum. 11th Annual PDHGA Dairy Calf and Heifer Conference. Mar. 20, 2007. Burlington, VT.
 74. Considerations in feeding of pasteurized non-saleable milk and colostrum to dairy calves. Chippewa Valley Technical College Large Herd Dairy Management Class. Hammond, WI. Aug. 21, 2006.
 75. Considerations in feeding of pasteurized non-saleable milk and colostrum. In Proc. Northeast Ag. and Feed Alliance Conference. Syracuse, NY. Mar. 28, 2006. West Lebanon, NH. Mar. 30, 2006.
 76. Feeding calves heat-treated colostrum: Can this work on dairy farms? In. Proc. 10th Annual Meeting of the Dairy Calf and Heifer Conference. PDHGA. Visalia, CA. Mar. 21-24, 2006.
 77. Calf care at the TMF. US Grains Council Tour and Presentation. Emerald, WI. Oct. 9, 2006.
 78. Feeding calves heat-treated colostrum: Can this work on dairy farms? University of Minnesota Dairy Calf Workshop. Waseca, MN. April 5, 2006.
 79. Raising healthy dairy calves. Carver County/University of Minnesota Dairy Expo. Norwood, MN. Feb. 20, 2006.
 80. Research Update: Evaluation of an on-farm culture system and heat-treatment of bovine colostrum. Minnesota Dairy Herd Improvement Association. Board of Directors Annual Meeting. Dec. 8, 2005. Buffalo, MN.
 81. Raising healthy calves. At Stearns County Calf Field Day. July 11, 2005. St. Cloud, MN.
 82. Giving Dry Cow Mastitis the Boot. Minnesota Dairy Days 2005. McIntosh, Ottertail, Padua, Royalton, MN. Jan. 4, 5, 6, and 7, 2005
 83. Pasteurized Milk and Colostrum for Calves: An option or Necessity?. Minnesota Dairy Days 2005. McIntosh, Ottertail, Padua, Royalton, MN. Jan. 4, 5, 6, and 7, 2005
 84. Considerations feeding pasteurized waste milk and colostrum. In: Calf Care Connection Seminars. Professional Dairy Producers of Wisconsin Annu. Meet: Madison, Eau Claire, Appleton, WI. on Nov. 28, 29, and 30, 2005.
 85. Pasteurization of Waste Milk and Colostrum. Quality Milk Production Services Producer Education Meetings. Ithaca, Perry, Canton, Lowville, NY. on June 20, 21, and 22, 2005.
 86. Starting calves correctly – Colostrum management and correct feeding. Monroe Veterinary Service Client Meeting. Monroe, WI. April 7, 2005.
 87. Update on scours in dairy calves. Monroe Veterinary Service Client Meeting. Monroe, WI. April 7, 2005.
 88. Starting calves correctly – Colostrum management and correct feeding. Center Hill Veterinary Clinic Client Meeting. Darlington, WI. April 7, 2005.
 89. Update on scours in dairy calves. Center Hill Veterinary Clinic Client Meeting. Darlington, WI. April 7, 2005.
 90. A review of issues surrounding the feeding of pasteurized non-saleable milk and colostrum. Dairy Calves and Heifers: Integrating Biology and Management. N.R.A.E.S. Syracuse, NY. Jan. 25-27, 2005.
 91. Practical considerations in feeding pasteurized non-saleable milk and colostrum. 7th Annual Intermountain Nutrition Conference. Salt Lake City, Utah. Jan. 25-26, 2005.
 92. Considerations in feeding pasteurized waste milk and colostrum. World Dairy Expo. Madison, WI. Sept. 30, 2004.

93. Calf health management. Stearns County Calf Management Extension Program. St. Cloud, MN. Aug. 19, 2004.
94. Colostrum management. Scherbring's Heifer Hotel Client Meeting. Rollingstone, MN. July 1, 2004.
95. What have we learned at the Transition Management Facility? Ontario Large Herd Operators 8th Dairy Symposium. London, ON. Mar. 9-11. 2004.
96. A review of issues surrounding the feeding of waste milk and pasteurization of waste milk and colostrum. Ontario Large Herd Operators 8th Dairy Symposium. London, ON. Mar. 9-11. 2004.
97. Calf health management seminar. Baldwin Veterinary Center Client Meeting. Baldwin, WI. Jan. 28, 2004.
98. Use of external and internal teat sealants to prevent new intramammary infections during the dry period. Midwest Dairy Herd Health Conference. Green Bay, WI. Nov. 11-12, 2003.
99. A review of issues surrounding the feeding of waste milk and pasteurization of waste milk and colostrum. Midwest Dairy Herd Health Conference. Green Bay, WI. Nov. 11-12, 2003.
100. Management of the newborn calf. Vita-Plus – Prairie Farm Supply Calf Meeting. Belle Plaine, MN. August 20, 2003.
101. Colostrum management on dairy farms. Scherbring Heifer Hotel client meeting. Winona, MN. July 18, 2003.
102. The relationship between herd rbST-supplementation and other factors and risk for removal for cows in Minnesota Holstein dairy herds. 4-State Applied Nutrition and Management Conference. La Crosse, WI. July 9-10, 2003.
103. Evaluation of three cow-side diagnostic tests for the detection of subclinical ketosis in fresh cows. 4-State Applied Nutrition and Management Conference. La Crosse, WI. July 9-10, 2003.
104. Update on Research at the Transition Management Facility. TMF Partners Day. Emerald, WI. Oct. 22, 2003.
105. A review of issues surrounding the feeding of waste milk and pasteurization of waste milk and colostrum. 7th National Dairy Calf and Heifer Conference (P.D.H.G.A.). March 27-29, 2003. Green Bay, WI. Pg. 163-173.
106. Perspectives on the dynamics of culling: Review of MN DHI records. 6th Western Dairy Management Conference. Reno, NV. March 12, 2003.
107. Jejunal Hemorrhage Syndrome in adult dairy cows. 6th Western Dairy Management Conference. Reno, NV. March 12 and 13, 2003.
108. Johne's disease: A review of the disease, its management, and the opportunity for DHIA in control programs. National DHIA Managers Meeting. Bloomington, MN. July 24-26, 2002.
109. Health management for dairy calves. North Central Dairy Calf and Heifer Workshop – Professional Dairy Heifer Growers Association. Sioux Center, IA. Dec. 4-5, 2001.
110. Marginal thinking – Making sound management decisions on your dairy. One-Step Ahead - National Dairy Women's Conference. Phoenix, AZ. Nov. 8-10, 2001.
111. Minnesota Johne's disease program. Minnesota Dairy Herd Improvement Association Technician Training Meeting. St. Paul, MN. Aug. 2, 2001.
112. Pasteurizing waste milk and colostrum: a management tool to control Johne's disease? Minnesota Board of Animal Health Johne's Advisory Meeting. St. Paul, MN. July 17, 2001.
113. Health principles and protocols. University of Minnesota Extension Program: Calf Management: Birth to 60 days of Age. Melrose, MN. April 3 and 10, 2001.
114. Diseases in the news: Foot-and-Mouth Disease and Bovine Spongiform Encephalopathy. Third Annual Minnesota Women's Agricultural Leadership Conference. Brooklyn Center, MN. Apr. 4, 2001.
115. Panel discussion: biosecurity principles and practices for Minnesota dairy herds. Annual Meeting of the Minnesota Milk Producers Association. St. Cloud, MN. March 15, 2001.

116. Biosecurity in Upper Midwest Dairy Herds. First District Dairy Producer's Field Day. Alexandria, MN. Jan. 22, 2000.
117. Biosecurity in Upper Midwest Dairy Herds: two presentations. Farmland Holstein Association Field Day. Wabasha, MN. Aug 7., 1999.
118. Designing treatment protocols for dairy operations. Meeting of Women in Agriculture Peer Group. Baldwin, WI. May 4, 1999.
119. Analysing Records of Production. Dairy Comp 305 Producer User Meetings.
Long Prairie, Morton, Rochester, MN. Jan. 5, 6, 7, 1999
Long Prairie, Morton, Rochester, MN. Feb. 2, 3, 4, 1999
120. Evaluation of a milk urea assay, and the relationship between milk urea concentrations and nutritional management and performance in dairy herds. Ontario Dairy Herd Improvement Corporation Employee and Board of Director Education Meetings. Guelph, ON. Dec. 6 and 9, 1998.
121. Interpreting milk urea nitrogen. Ontario Ministry of Agriculture and Food Dairy Days. Kayuga, ON. Feb. 6, 1998.
122. Interpreting milk urea nitrogen. Floradale Dairy Producer Meetings. St. Jacobs and Caledon East, ON. Dec. 10 and 11, 1997.

Poster Presentations (First author presenting unless * indicates presenter)

1. **Godden, S.**, W. Knauer, C. Gapinski, K. Yorek, R. Hullinsky, K. Leslie, C. Murray-Kerr, S. McGuirk, H. Coetze, and D. Haines. ADSA Discover Conference: Effects of Stress on Health and Production of Dairy Cows. Chicago, IL. Oct. 30 – Nov. 1, 2018.
2. Rowe, S. & **S. Godden***, D. Nydam, P. Gorden, A. Lago, E. Royster, R. Bicalho. Selective dry cow therapy on U.S. dairy farms: impact on udder health, antimicrobial use and economics. CRWAD Annu Mtg. Chicago, IL. Dec. 1-4, 2018.
3. Rowe, S. & **S. Godden**, E. Royster, J. Timmerman, B. Crooker, M. Boyle. Investigation of the relationship between bedding bacteria count and intramammary infection in late lactation dairy cows. CVM Points of Pride Research Day. Oct. 10, 2018.
4. Adamchick, J. & **S. Godden**, W. Knauer, K. Leslie, R. Hullinsky, C. Gapinski, and K. Yorek. Relationship between dairy cow serum calcium status at calving and calf survival, health and growth outcomes – Preliminary results. CVM Points of Pride Research Day. Oct. 10, 2018.
5. Patel, K. & **S. Godden**, E. Royster, J. Timmerman, B. Crooker, and L. Fox. 2017. Investigation of the relationship between bacteria counts, bedding characteristics and bedding management practices with udder health and milk quality on dairy farms – preliminary results. Annu. Mtg of the Minnesota Dairy Health Conference. April 18-19, 2018. St. Paul, MN (Oral+Poster).
6. Rowe, S. & **S. Godden**, E. Royster, D. Nydam, A. Lago, P. Gorden. Selective dry cow therapy on U.S. dairy farms: Impact on udder health, antimicrobial use and economics. Workers Conference. Annu. Mtg of the Minnesota Dairy Health Conference. April 18-19, 2018. St. Paul, MN (Oral+Poster).
7. Patel, K. & **S. Godden**, E. Royster, J. Timmerman, B. Crooker, L. Fox. Investigation of the relationship between bacteria counts, bedding characteristics and bedding management practices with udder health and milk quality on dairy farms: Preliminary results. CVM Points of Pride Research Day. Oct. 4, 2017.
8. Knauer, W.A. & **S.M. Godden**, A. Dietrich, and R.E. James. The association between daily average feeding behaviors and morbidity in automatically fed group-housed pre-weaned dairy calves.. CVM Points of Pride Research Day. First place in poster completion for the VMED Graduate Program. Oct. 5, 2016
9. Patel, K. & **S. Godden**, E. Royster, J. Timmerman, B. Crooker. N. McDonald. Pilot Study: Impact of using a Culture-Guided Selective Dry Cow Therapy Program Targeting Quarter-Level Treatment on Udder Health and Antibiotic Use. CVM Points of Pride Research Day. Honorable mention in poster

- completion for the VMED Graduate Program. Oct. 5, 2016
10. Sorg, J. [&], **S. Godden**, and W. Knauer [&]. The effect of more liberal milk allowance in the first week of life on the health and growth of preweaned dairy calves. CVM Points of Pride Research Day. Oct. 5, 2016
 11. **Godden, S.**, H. Coetzee, R. Chebel, M. Cheeran. 2014. Effect of oral meloxicam on growth and health in dairy calves following cautery dehorning with a local anesthetic. ADSA Discover Conference: Strategies for Improving US Dairy Cattle Welfare. Itasca, IL. May 27-30, 2014.
 12. Bierman, T. [&], **S. Godden**, H. Coetzee, R. Chebel, M. Cheeran, J. Cho, M. Wehseler, and J. Armstrong. 2014. Effect of oral meloxicam on feed intake and pain perception in Jersey calves following cautery dehorning with a local anesthetic. ADSA Discover Conference: Strategies for Improving US Dairy Cattle Welfare. Itasca, IL. May 27-30, 2014.
 13. Stampfl, B. [&], **S. Godden**, D. Haines, E. Spronk. 2014. Passive transfer and response to early vaccination in Holstein dairy calves. College of Veterinary Medicine Summer Scholars Research. July 30, 2014.
 14. Bierman, T. [&], **S. Godden**, H. Coetzee, R. Chebel, M. Cheeran, J. Cho, M. Wehseler, and J. Armstrong. 2013. Effect of oral meloxicam on feed intake and pain perception in Jersey calves following cautery dehorning with a local anesthetic. 46th Annu Meet. AABP. Sept. 19-21, 2013. Milwaukee, WI.
 15. Arruda, A.G. ^{&*}, **S. Godden**, P. Rapnicki, P. Gorden, L. Timms, S.S. Aly, T. Lehenbauer, and J. Champagne. Randomized non-inferiority clinical trial evaluating three commercial dry cow mastitis preparations. Annu Mtg NMC. Jan. 20-23, 2013. San Diego, CA.
 16. Haran, P. [&], **S. Godden**, J. Bender, and S. Sreevatsan. Detection of multi drug resistant, enterotoxin producing methicillin resistant *Staphylococcus aureus* in Minnesota bulk tank milk. Poster Presentation. National Mastitis Council mtg. Sept. 22-24, 2011. St. Louis, MO.
 17. Haran, K.P. [&], **S.M. Godden**, J.B. Bender, and S. Sreevatsan. 2010. Isolation and characterization of Methicillin resistant *Staphylococcus aureus* from bulk tank milk in Minnesota dairy farms. CRWAD mtg.. 12/5/2010. Chicago, IL.
 18. Skidmore, A., P. Dinsmore, V. Biemann, **S. Godden**, K. Leslie and S. LeBlanc. 2010. Evaluation of Brix refractometry for measurement of colostrum quality. World Buiatrics Congress. Nov. 14-18, 2010.
 19. Donahue, M. [&], **S. Godden**, S. Wells, R. Bey, J. Fetrow, and J. Stabel. 2010. Heat-treatment of colostrum on commercial dairy farms: effects on colostrum characteristics and calf health. Annu. Mtg. MVMA. Minneapolis, MN. Feb. 4-6, 2010. * Won 1st place in poster competition.
 20. Donahue, M. [&], **S. Godden**, S. Wells, R. Bey, J. Fetrow, and J. Stabel. 2010. Heat-treatment of colostrum on commercial dairy farms: effects on colostrum characteristics and calf health. CSREES Animal Protection and Biosecurity PD Workshop. Dec. 6, 2009. Chicago, IL.
 21. Donahue, M. [&], **S. Godden**, S. Wells, R. Bey, J. Fetrow, and J. Stabel. 2009. Effect of heat-treatment of colostrum on quality and microbiology of colostrum and on passive transfer of immunoglobulin G in newborn calves. Annu. Mtg. MVMA. Minneapolis, MN. Feb. 5-7, 2009.
 22. Donahue, M. [&], **S. Godden**, S. Wells, R. Bey, J. Fetrow, and J. Stabel. 2009. Effect of heat-treatment of colostrum on quality and microbiology of colostrum and on passive transfer of immunoglobulin G in newborn calves. CVM Points of Pride Research Day. 64-GS. Mar. 25, 2009.
 23. Lago, A. [&], **S. Godden**, R. Bey, P.L. Ruegg, K. Lesslie. 2009. The selective treatment of clinical mastitis based on on-farm culture results does not affect long-term outcomes: clinical mastitis recurrence, somatic cell count, milk production and cow survival. 69-GS. CVM Points of Pride Research Day. 64-GS. Mar. 25, 2009.
 24. Lago, A. [&], **S. Godden**, R. Bey, P.L. Ruegg, K. Lesslie. 2009. The selective treatment of clinical mastitis based on on-farm culture results reduced antibiotic use by half and tends to reduce milk withholding time without affecting short-term clinical and bacteriological outcomes. 68-GS. CVM Points of Pride Research Day. 64-GS. Mar. 25, 2009.
 25. **Godden, S.**, S. Wells, I. Gardner, J. Fetrow, and J. Stabel. Evaluation of critical control points in youngstock and adult dairy cow management to reduce transmission of *Mycobacterium avium* subsp.

- paratuberculosis*. CSREES Animal Protection and Biosecurity PD Workshop. Dec. 7, 2008. Chicago, IL.
26. Peterson, J. [&], and S. Godden. 2008. Relationship between bacteria levels in colostrum and efficiency of absorption of immunoglobulin G in newborn dairy calves. College of Veterinary Medicine Points of Pride Research Days. St. Paul, MN. Mar. 25-26, 2008.
 27. Ferrouillet, C. [&], S. Wells, **S. Godden**. 2007. Lessons learned from the Minnesota Johne's disease demonstration herd control program. 9th International Coloquium on *paratuberculosis*. Tsukuba, Japan. Oct. 29-Nov.2, 2007.
 28. Lilleguard. H. [&], **S. Godden**, R. Bey. 2007. Use of heat-treatment and preservatives to improve colostrum quality. CVM Points of Pride Research Days Mar. 20-21, 2007.
 29. Johnson, J., **S. Godden**, T. Molitor, T. Ames. 2007. The effect of feeding three plasma-derived colostrum replacer formulations on passive transfer of immunoglobulins in neonatal dairy calves. CVM Points of Pride Research Days Mar. 20-21, 2007.
 30. Carrier, J. [&], **S. Godden**, J. Fetrow, S. Stewart, P. Rapnicki. 2007. Predictors of stillbirth for cows moved to calving pens when calving is imminent. CVM Points of Pride Research Days Mar. 20-21, 2007.
 31. Lago, A. [&], **S. Godden**, R. Bey, K. Leslie, P. Ruegg, and R. Dingwell. 2007. Self cure rates of subclinical intramammary infections in fresh cows. CVM Points of Pride Research Days Mar. 20-21, 2007.
 32. **Godden, S.**, S. Wells, I. Gardner, J. Fetrow, and J. Stabel. 2006. Evaluation of critical control points in youngstock and adult dairy cow management to reduce transmission of *Mycobacterium avium* subsp. *paratuberculosis*. USDA Animal Protection Project Director Workshop (at CRWAD). Chicago, IL. Dec. 3, 2006.
 33. Lago, A. [&], **S. Godden**, R. Bey, K. Leslie, P. Ruegg, and R. Dingwell. 2007. Prevalence and etiology of subclinical intramammary infections in fresh cows. Proc. Annu. Meet. of the National Mastitis Council. Jan. 21-24, 2007. San Antonio, TX. Pg. 246-247.
 34. Lago, A. [&], **S. Godden**, R. Bey, K. Leslie, P. Ruegg, and R. Dingwell. 2007. Persistence of subclinical intramammary infections in fresh cows. Proc. Annu. Meet. of the National Mastitis Council. Jan. 21-24, 2007. San Antonio, TX. Pg. 252-253.
 35. Hagman, D. [&] and **S. Godden**. 2006. Feeding heat-treated colostrum to dairy calves. Proc. Annu. Meet. Of the Am. Assoc. Bov. Pract. Sept. 21-23, 2006. St. Paul, MN. Pg. 297.
 36. Hochhalter, J. [&], **S. Godden**, R. Bey, A. Lago, M. Jones. 2006. Validation of the Minnesota Easy Culture System II: Results from in-lab bi-plate culture versus standard laboratory culture, and bi-plate inter-reader agreement. Proc. Annu. Meet. Of the Am. Assoc. Bov. Pract. Sept. 21-23, 2006. St. Paul, MN. Pg. 298.
 37. Jones, M. [&], J. Hochhalter[&], R. Bey, A. Lago, **S. Godden**. 2006. Validation of the Minnesota Easy Culture System II: Results from in-lab tri-plate culture versus standard laboratory culture, and tri-plate inter-reader agreement. Proc. Annu. Meet. Of the Am. Assoc. Bov. Pract. Sept. 21-23, 2006. St. Paul, MN. Pg. 299.
 38. Hagman, D. [&], **S. Godden**. Feeding heat-treated colostrum to dairy calves. Points of Pride Research Day. College of Veterinary Medicine, University of Minnesota. St. Paul, MN Mar. 14-15, 2006.
 39. Hochhalter, J. [&], **S. Godden**, R. Bey, A. Lago, M. Jones. Validation of the Minnesota Easy Culture System II: Results from in-lab biplate culture versus standard laboratory culture, and bi-plate inter-reader agreement. Points of Pride Research Day. College of Veterinary Medicine, University of Minnesota. St. Paul, MN Mar. 14-15, 2006.
 40. **Godden, S.**, S. Wells, I. Gardner, J. Fetrow, J. Stabel. Evaluation of critical control points in youngstock and adult dairy cow management to reduce transmission of *Mycobacterium avium* subsp. *paratuberculosis*. National Research Initiative Project Director (PD) meeting for the Animal Protection Program. 2005 CRWAD Meeting. St. Louis, MO. Dec. 4-6, 2005.
 41. Malmedal, T. [&], Gerdes, T., **Godden, S.**, Bey, R., Borjesson, D., Chester-Jones, H., Wells, S., Fetrow, J.

2004. Preliminary results from a field study to investigate the relationship between colostrum management and serum immunoglobulin concentrations in dairy calves. Points of Pride Research Day. College of Veterinary Medicine, University of Minnesota. St. Paul, MN. March 9-10, 2004
42. Gerdes, J. [&], Malmedal, T., Bey, R., **Godden, S.** 2004. Evaluation of the effects of sample collection and culture strategies on mastitis culture results. Points of Pride Research Day. College of Veterinary Medicine, University of Minnesota. St. Paul, MN. March 9-10, 2004.
 43. **Godden, S.**, P. Rapnicki, S. Stewart, J. Fetrow, A. Johnson, R. Bey, and R. Farnsworth. Effectiveness of an internal teat sealant in the prevention of new intramammary infections during the dry and early lactation periods in dairy cows when used with an intramammary antibiotic. 36th Annu. Meet. American Association of Bovine Practitioners. Columbus, OH. Sept. 18-20, 2003.
 44. **Godden, S.**, J. Feirtag, L. Green, S. Wells, J. Fetrow. Preweaning health and performance of Minnesota dairy calves fed either pasteurized waste milk or a traditional milk replacer feeding program. 36th Annu. Meet. American Association of Bovine Practitioners. Columbus, OH. Sept. 18-20, 2003.
 45. Green, L. [&], **S. Godden**, and J. Feirtag. 2003. Effect of batch and high temperature-short time pasteurization on immunoglobulin G concentrations in colostrum. Annu. Meet. American Dairy Science Association. June 22-26, 2003. Phoenix, AZ. J. Dairy Sci. 86(Suppl. 1): 248.
 46. Green, L. [&], **S. Godden**, and J. Feirtag. 2003. Practical considerations related to installation and use of commercial pasteurization units for on-farm pasteurizing of milk and colostrum. Annu. Meet. American Dairy Science Association. June 22-26, 2003. Phoenix, AZ. J. Dairy Sci. 86(Suppl. 1): 249.
 47. **Godden, S.**, R. Bey, J. Reneau, R. Farnsworth and M. LaValle. 2002. Field validation of a milk line sampling device for monitoring udder health and milk component data. 41st Annual Meeting of the National Mastitis Council. Orlando, FL. Feb. 3-6, 2002. Pg. 204-205.
 48. Johnson, A.P., P. Rapnicki, R. Bey, R. Farnsworth, **S. Godden**, and S. Stewart. 2001. Standardized method to estimate potential for bacterial growth in bedding. 2nd International Symposium on Mastitis and Milk Quality. Vancouver, BC, Canada. Sept. 13-15. Pg. 512-513.
 49. Stewart, S., **S. Godden**, P. Rapnicki, and S. Eicker. 2001. Summary of early lactation DHIA somatic cell counts. 2nd International Symposium on Mastitis and Milk Quality. Vancouver, BC, Canada. Sept. 13-15. Pg. 532-533.
 50. Lissemore, K., D. Kelton, W. Martin, **S. Godden**, A. Vonk Nooredgraaf, and V. Edge. 2000. The association between ration protein and the economic efficiency of milk production on Ontario dairy farms. 33rd Annual Conference of the American Association of Bovine Practitioners. Sept. 21-23, 2000. Rapid City, SD.
 51. **Godden, S.** Milk urea analysis. Poster Presentation. The Dairy Industry and the “U”: University of Minnesota Workshop. Melrose, MN. February 6, 1999.

Extension Publications for Industry and Producer Groups

1. Minimize pain in calves with proper disbudding, dehorning. DairyStar Newsletter. 3/28/2018
2. Nydam, D., E. Royster, **S. Godden**, P. Gorden, and P. Ruegg. Can susceptibility testing help pinpoint treatment? Hoard’s Dairyman. Dec. 2018. Pg. 734.
3. **Godden, S.** Don’t forget to monitor your pasteurized milk feeding system. DairyStar Newsletter. 1/5/2018
4. **Godden, S.** Best management practices for group housing of preweaned dairy calves. U of MN Dairy Star article. 2/2017.
5. **Godden, S.** Selective dry cow therapy – We can do this!. U of MN Dairy Star article. 5/2016.
6. **S. Godden.** 4/2014. Factsheet: Colostrum Heat-treatment Systems for Dairy Calves: Overview of processing and monitoring. <http://www.cvm.umn.edu/vdl/services-and-fees/udder-health->

[mastitis/index.htm](#)

7. **S. Godden.** 4/2014. Factsheet: Pasteurized Milk Systems for Calves: Overview of processing and monitoring. <http://www.cvm.umn.edu/vdl/services-and-fees/udder-health-mastitis/index.htm>
8. **Godden, S.** 2001. A review of the major enteric diseases of young dairy calves. *In Proc. Nutrena Calf College.* St. Paul, MN. March 13-15, 2001.
9. **Godden, S.,** and J. Linn. 2001. Don't waste your protein. Minnesota DHIA Monthly Update Newsletter. Pp. 2-3. May 2001.
10. **Godden, S.** 2000. Biosecurity in Upper Midwest Dairy Herds. *In Proc. First District Dairy Producer's Field Day.* Alexandria, MN. Jan. 22, 2000.
11. **Godden, S.** and J. Linn. 1999. Don't waste your protein. University of Minnesota Dairy Initiatives Newsletter. Vol. 8 (2: Fall): 6-7, 1999.
12. **Godden, S.** 1999. Biosecurity in Upper Midwest Dairy Herds. *In Proc: Holstein Association Field Day.* Wabasha, MN. Aug 7., 1999.
13. Buelow, K., S. Stewart, P. Rapnicki, and **S. Godden.** 1999. Reproductive performance. University of Minnesota Dairy Initiatives Newsletter. Vol. 8 (1: Spring): 8-9, 1999.
14. **Godden, S.** 1998. Conclusions from a study to evaluate a milk urea assay, and to describe the relationship between milk urea results and feeding management and performance in Ontario dairy herds. Extension Report to Ontario DHIA. November 10, 1998.
15. **Godden, S.** 1998. Recommendations on the reporting of milk urea nitrogen results. Extension Report to Ontario DHIA. March, 1998.
16. **Godden, S.** 1998. Summary of findings of a study to examine the association between herd average milk urea nitrogen (MUN) concentrations and time of sample collection. Extension Report to Ontario DHIA. March 2, 1998.
17. **Godden, S.,** K. Lissemore, D. Kelton, K. Leslie, J. Lumsden, and J. Walton. 1997. Effect of sample type and handling on a milk urea nitrogen assay. Dairy Research Report, University of Guelph. pp 83-84.
18. **Godden, S.,** K. Lissemore, D. Kelton, K. Leslie, J. Lumsden, and J. Walton. 1995 Milk urea nitrogen analysis. Dairy Progress Report, Ontario Dairy Herd Improvement Corporation. pp 10-11.

Articles or References to Work in Lay Publications, Press and Newsletters

1. Why think about selective dry cow therapy now? *Hoard's Dairyman.* May 2018. Pg. 351.
2. Does selective dry cow therapy have a place? *Hoard's Dairyman.* May 25, 2017
3. Find the cause of poor passive transfer. *Hoard's Dairyman.* Mar. 10, 2016.
4. Heat wave continues, air quality worsens. Interview for MPR News Update on abating heat stress in farm animals. 7/21/2016
5. Serving up the very first meal. *Hoard's Dairyman.* Sept. 10, 2016. Pg. 545.
6. On-farm culturing: A culture of success. *Dairy Herd Management e-journal.* 11/24/2016.
7. Selective dry cow therapy may be another tool in the antibiotic-reduction toolbox. *Progressive Dairyman E-journal.* 7/27/2016.
8. Cultures help you make decisions. *Hoard's Dairyman.* Jan. 10, 2016. Pg. 28
9. Calf group housing: Is it worth it? *Progressive Dairyman.* Issue 2, Jan. 19, 2015. Pg. 58.
10. Why consider colostrum supplements and replacers? *PDPW Dairy Star.* Sept., 2014
11. Colostrum supplements and replacers – Do they have a role on your dairy? 04/2014. Posted on 'New from Dairy Extension' at www.extension.umn.edu/dairy
12. Colostrum is good, but let's make it great. *Progressive Dairyman.* Issue 13. Sept. 1, 2013. P. 64-65.
13. Handling waste milk. *Hoard's Dairyman.* Dec. 2012.

14. So, what's new? (a review of colostrum research) Dairy Herd Network. Nov. 7, 2012.
15. Minnesota Dairy Health Surveillance Project Newsletter. S. Godden. July 20, 2012.
16. Enhance that colostrum. Dairy Herd Network. Aug. 1, 2012.
17. I belong to...NMC. By Sandra Godden. In Progressive Dairyman. 6/7/2012. Pg. 104.
18. MRSA found on U.S. dairies. Dairy Today Journal. 3/28/2012.
19. Evaluation of management practices to reduce transmission of Johne's disease: Results from controlled clinical trials. S. Godden, S. Wells., I. Gardner, J. Fetrow, J. Stabel, L. Espejo, B. Knust and E. Patton. MN DHIA Annual Summary. 03/2012. Pg. 21-23
20. How do we get premature calves off to a better start? S. Godden and S. McGuirk. Hoard's Dairyman. Feb. 25, 2012.
21. Are we using our waste milk the right way? S. Godden and R. James. Hoard's Dairyman. Jan. 25, 2012.
22. Starting Strong: Measuring Colostrum Quality. Vita Plus Newsletter. 12/23/2011.
23. Prevent the spread of Johne's by separating dam and calf. Hoard's Dairyman. January 25, 2011 pg. 52.
24. A mother's touch. Dairy Herd Management Magazine. April, 2011. pg. 30.
25. Pasteurizing colostrum: The next step to controlling disease. Hoard's Dairyman. Sept. 2010. Pg. 589.
26. New research confirms advantage of dried colostrum based colostrum replacers. Progressive Dairyman Magazine. Oct. 2010.
27. Here's the latest in calf nutrition and research. In Progressive Dairyman. Pg. 68-70.
28. Keep newborns healthy and safe. In Hoard's Dairyman. Sept. 25, 2009. Pg. 584.
29. Keys to colostrum that calves will thrive on. In Hoard's Dairyman. Aug. 10, 2009. Pg. 480.
30. Relationship between in vitro susceptibility test results and treatment outcomes for gram-positive mastitis pathogens following treatment with cephapirin sodium. In AABP newsletter. July 2009. Pg. 6-7.
31. Calving pen type doesn't impact calf health. In Hoard's Dairyman. July 2009. Pg. 440.
32. To Pasteurize or Not. In Bovine Veterinarian. May-June, 2009. Pg. 21-22.
33. Stopping Johne's at first chance. In Hoard's Dairyman. Feb. 10, 2009. Pg. 84.
34. Why some bedding causes us more problems. In Hoard's Dairyman. Feb. 10, 2009. Pg. 110.
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43. Calf Care Methods Matter. In Bovine Health Watch. Dec., 2007. Pg. 7.
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48. Reduce stillbirths by moving cows right before calving. In Hoard's Dairyman. Mar. 10, 2007. Pg. 164.
49. Heat it up – Learn what the latest research has to say about heat treating colostrum. In Dairy Herd Management. Mar. 2007. Pg. 56-58.

50. Mastitis infection rates at calving still run high. *In Hoard's Dairyman*. Feb. 25, 2007. Pg. 128.
51. New ways to improve reproduction. *In Hoard's Dairyman*. January 25, 2007. Pg. 53.
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60. Tips for storing frozen colostrum. *In Dairy Herd Management magazine*. Feb., 2006. pg. 6-7.
61. Sperrmilch statt Austauschtränken. *In Elite Magazine (Germany)*. Nov. 2005. pg. 26.
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72. Calves fed pasteurized milk performed better. *In Hoard's Dairyman magazine*. 2004. pg. 288
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82. Pasteurized waste milk safe for calves. *Agri-View Farm Magazine*. Madison, WI. April 17th edition,

2003.

83. Tips for transporting weaned calves. Dairy Herd Management Magazine. January 2002. pg. 30-31.
 84. Adjusted take-off settings may improve milking efficiency. Dairy Today Magazine. October, 2001.
 85. Minnesota Public Radio. Interviewed on topic: Heat stress and heat abatement systems in dairy production systems. August 8, 2001.
 86. Peer-reviewed paper on milk urea nitrogen research posted on the National Dairy Herd Improvement Association (DHIA) web page on August 8, 2001. (Godden et al., 2001. J Dairy Sci. 84:1128-1139)
 87. Beef Up Your Biosecurity. Dairy Herd Management magazine web page. October 24, 2000.
- Tips on Reading MUN Data. Dairy Herd Management magazine. March 2001. Pg. 17.

4. TEACHING AND CURRICULUM DEVELOPMENT

4.1 Professional DVM Curriculum

University of Minnesota – Senior Rotations (2 weeks per rotation) 1998 – present.

Overview of Dairy Production Medicine. (CVM 6831). Fall 2013 – present. *Instructor*. 2 credits. Lectures/exercises/herd visits on epidemiology, nutrition and youngstock management plus herd visits. Offered twice in 2018: Jan 15-26, and May 7-18.

Advanced Dairy Production Medicine Rotations I and II (CVM 6977, 6978). Fall, 2012 – present. *Coordinator and instructor* for one-week module on youngstock management and one-week nutrition module (teaching, farm visits, labs). Assist with other module herd visits and Capstone project (teaching, farm visits, labs).

Dairy on-farm Clinical Rotation (CVM 6821). 2002 – present. (2 credits). 5-6 students/block, offered 5 times in 2018. **Coordinator and Instructor**. 4-5 days per block. Teach clinical techniques (examination, treatment, surgery, calving assistance, etc.) plus direct group discussions and on-farm activities on topics like nutritional monitoring, calf care, pathophysiology, prevention, and monitoring of metabolic disease in transition cows.

Dairy Herd Health and Disease Rotation (CVM 6818). 2000-2011. 2 credits. (18-25 students/yr). *Instructor*. Give lectures on colostrum management, clinical epi, and calf health management principles.

Dairy Production Medicine (DPM) I (CVM 6826). 2007 - 2011. (2 credits) (10-18 students/year). *Instructor & Coordinator in 2011*: Lectures on intro. To digestive function and nutrients, monitoring nutrition and housing, assist with ration balancing exercises, investigative field trips.

DPM II (CVM 6827). 2007 – 2011. (2 credits) (10-14 students/year). *Instructor. Coordinator in 2011*: Lectures on youngstock management, housing, disease, calf housing investigation field trip, applied nutrition, housing, clinical epidemiology, investigation field trips.

DPM III (CVM 6828). 2007 - 2011. (2 credits) (8-10 students/year). *Coordinator (2009 - 2011) and Instructor*: Lectures on transition cow management, assist with ration balancing exercises, transition cow nutrition and metabolic disease monitoring, forage evaluation field trip, nutrition evaluation field trip, student presentation evals..

DPM IV (CVM 6829). 2007 - 2011. (2 credits) (5-8 students/year). *Coordinator (2009 - 2011) and Instructor*: Lectures on youngstock feeding, youngstock field trip, comprehensive herd investigation field trip, student presentation evals.

Ruminant Nutrition (CVM 6815). 1999 – 2004. Dairy Production Medicine (DPM) II – Nutrition and management. (CVM 6828). 2005, 2006. Two-week senior rotation offered once per year. 2 credits. (6-15 students/yr). *Coordinator, instructor*. Give lectures and labs on ruminant digestive physiology, nutrients and nutritional management, physical evaluation of feedstuffs, use of ration evaluation software, computer analysis of records of production, and lead nutritional investigations (field trips) to two or three dairy farms plus a beef feedlot or small ruminant operation.

Advanced Applied Dairy Nutrition (CVM 6816). 1999 – 2004. Two-week senior rotation offered once per year. 2 credits. (6-8 student/yr). *Instructor*. Give lectures on vitamin and mineral nutrition, transition cow metabolic diseases of transition cows, nutrition investigations to dairy farms, assist students with directed projects in nutrition.

Mastitis, Milking Machines, and Milk Quality (CVM 6814). 1999 – 2003 Two-week senior rotation offered once per year. 2 credits. (15 students/yr). *Instructor*. Give lecture on causes and prevention of heifer mastitis (2001, 2002). Assist with field trips (1999, 2003).

Youngstock and Dairy Production Management (CAPS 6830). 2002, 2005
Advanced theriogenology and youngstock management. (CVM 6829). 2005.
Two-week senior rotation offered once per year. 2 credits. (6-10 students/yr)
Co-coordinator. Gave lectures on biosecurity, health management principles for young calves, heifer mastitis prevention, and pasteurization of waste milk and colostrum. Directed field trip (1/rotation). Will be offered again in 2004.

Dairy Record Analysis, Epidemiology & Economics (CAPS 6820).1999,2000
Two-week senior rotation offered once per year. 2 credits (15 students/yr)
Instructor. Gave lectures on computer analysis of records of production. Assist with field trip (1/rotation).

Dairy Theriogenology Management (CVM 6812). 2000-2002
Two-week senior rotation offered once per year. 2 credits. (15 students/yr). *Instructor*. Gave lecture on nutritional influences on fertility and directed a case-based exercise investigating a dairy farm fertility problem.

Advanced Dairy Records Analysis (CAPS 7820). 1999-2004
Two-week senior rotation offered once per year. 2 credits. (5 students/yr)
Instructor. Review of computer evaluation of records of production (1999-2000). Tutorial on interpreting survival curves when using DairyCOMP 305 computerized records (2003).

Advanced Building Design (CAPS 5911). 1999-2001
Two-week senior rotation offered once per year. 2 credits (10 students/yr). *Instructor* – 3 days of Dairy Housing. Gave lectures on general housing, social interactions, and feed bunk management for dairy cattle. Contribute to group discussions on facility and stall design, water management, and heat abatement systems. Assist with field trips.

Directed Study in Dairy Production Medicine (CVM 6506). 2001 (4 students), 2011 (3 students)

Two-week senior rotation offered once per year. 2 credits. *Instructor* – 3 days of interaction in group discussions, records evaluation, and assist with one field trip.

Directed Study in Dairy Nutrition (CVM 6506). 2000

Two-week senior rotation offered once per year. 2 credits. (1 student). *Coordinator*. One-on-one discussions on principles of dairy nutrition based on directed readings. Coordinate with veterinarian to send student to a large Colorado dairy for one week. Develop, coordinate, and review student project on monitoring feeding management on this dairy.

University of Minnesota – 1st, 2nd, and 3rd Year Vet. Curriculum 1998-present

Food and Fiber Animal Problems (CVM 6967). 2015 – present. *Instructor*. 3 hrs. 3rd year spring selective. 2 credits. Approx. 40 students.

Mixed Track Animal Problems (CVM 6975). 2018. I *Instructor*. 3 hrs. 3rd year spring selective. 2 credits. Approx. 20 students.

Food and Fiber II: Production Medicine (CVM 6964). 2018. *Instructor*. 3rd year spring selective. 2 credits. 21 students. 6 hrs: 2 hrs Study design/Use of statistics in veterinary population medicine. 4 hrs: Nutrition management

Large Animal Medicine (CVM 6928) (Previously called: Metabolic Disorders, Pediatrics, and Oncology). 1999 – present. *Instructor*. Second year spring. Third year course. 3 credits. (100 students/year) Give 11 lectures on metabolic diseases of ruminants, including liver diseases, ketosis and fatty liver, hypocalcemia, hypomagnesemia, downer cow syndrome, protein and energy malnutrition, nutritional interactions with heat and cold stress/starvation, and vitamin and mineral deficiencies and excesses.

Clinical Epidemiology (CAPS 6220). 1999 – present. *Instructor*. Second year course. 2 credits. (100 students/year). Four 1-hr lectures on topics of the diagnostic process, types of diagnostic tests, evaluating the utility and performance of diagnostic tests, use and interpretation of diagnostic test results, herd-level testing.

Preventive Medicine (CVM 6914). 1998. *Instructor* – provide content for on-line course. Prepare 1 hour ppt on calf health management.

Large Animal Clinical Skills I (CVM 6301). 1999, Jan. 2017.

Second year course. 1 credit. (76 students/year)

Laboratory instructor. Assist with 4 hour lab on physical exam of the bovine.

Bovine Reproductive Palpation Lab (CVM 6800). Oct. 2017. *Instructor*. 3hr lab teaching bovine palpation.

Agents of Disease I (CVM 6913). Spring semester, first year. April, 2014, 2017. Mentor. Reviewed 2 group projects (IBR, Coccidiosis).

Agents of Disease II (CVM 6917). Fall semester, second year. December, 2014, Oct. 2017. Reviewed one module – Reproductive diseases.

Principles of Nutrition (CVM 6134). 2011 – 2017. *Instructor*. First year course. 1 credit. 100 students/year.

3 hrs: 1 hr - colostrum and nutritional management of neonatal calves/ 2 hrs – adult ruminant nutrition.

Veterinary Immunology (CVM 6911). 2014 – present. *Instructor*. Spring semester. First year course. 3 credits (100 students/year). Deliver 30 minute lecture on use of colostrum supplements and replacers in neonates.

Food and Fiber Selective I (CVM 6963). 2016. *Coordinator and Instructor* (3 hrs). 3rd year spring selective. 2 credits. Approx. 40 students.

Digestive Systems Disorders (CVM 6410). 1999 – 2015.

Third year course. 5 credits. (80 students/year)

Lecturer and Lab. Instructor. Give one lecture on liver disease in ruminants. Participate in two three-hour labs teaching technique of rumenocentesis and evaluation of rumen fluid.

Dairy Production Medicine: Lecture block. (CVM 6802). 2000 – 2015.

Third year course. 3 credits. (35 students/year)

Instructor. 2 hr lecture on calf health management.

Reproductive Diseases of Food Animals (CVM 6704). 1998 – 2009.

Third year course. 2 credits (45 students/year)

Instructor. Give two lectures on the influence of nutrition on reproductive performance in the bovine.

Bacteriology and Mycology (CVM 6202). 2003 - 2009

Second year course. 3.5 credits (80 students/year). *Instructor*. Give one lecture on mastitis in dairy cattle.

Dairy Study Group – CVM 2009. 02/07/2008.

Extracurricular 2 hr lecture on mastitis diagnosis and management. 7 students.

Overview of Animal Populations (CVM 6021). 1999 - 2005

First year course. 1 credit. (80 students/year). *Laboratory instructor*. Lead field trips to dairy farms.

Clinical Pharmacology (CVM 6205). 2012 – 2013. Second year course. 100 students/class. Teach one hour on pharmacology and clinical mastitis therapy.

Large Animal Practice Mentoring. CVM 6718). Fall, 2012 – Spring, 2014. Second year elective course. 40-45 students. *Coordinator*. Match students to mentoring practices. Review student case reports.

Large Animal Palpation Lab (CVM 6702). 2013. *Instructor*. 1 hr lecture & 2 hr lab on bovine palpation. 50 students lecture, 25 students lab.

International and Cultural Immersion Course (CVM 6001). *Instructor*. 1 hr lecture on Heifer International. ≈75 students. Spring, 2013.

Kansas State University – Senior Dairy Program 2018

Teach 4 hours on calf health management. Aug. 30, 2018

Cornell University – Senior Dairy Program 2004 - present.

Summer Dairy Institute. 2004 – present. Six-week program in advanced dairy production medicine (20-25 students/yr). *Instructor*. Teach 4 hours on colostrum management, pasteurizing waste milk and colostrum, and management of group housing systems for dairy calves.

Iowa State University – Senior Rotation **2002**

Introduction to Dairy Production Medicine (483 VDPAM). 2002
Two-week senior rotation offered once/year (15 students). *Instructor*. Three-hour lecture plus computer-based tutorial and exercise on economic decision making on dairy farms.

University of Guelph – Senior Rotations **1995-1998**

Ruminant Health Management – Level I 1995-1998
Two-week senior rotation offered year round (4 students/block)
Instructor. Clinical skills training of senior vet students during ambulatory service visits to client farms (1995-1996). Lead group discussions on antimicrobial use in food animals (1997 - 1998).

Ruminant Health Management – Level II 1995-1996
Two-week senior rotation offered four times/year (4 students/block)
Instructor. Production medicine (nutrition, reproduction) training of senior vet students during scheduled herd visits or herd investigations.

4.2 Undergraduate/Animal Science Curriculum

i) Dairy Production Systems Management (ANSC 4604). 2014 – present. Spring semester. 4 credits.
Instructor. Deliver one 2-hour lecture on calf health management. Approx. 30 students/year.

ii) Animal Health and Disease (CAPS 3502) 1999-2004
Offered in fall semester. 3 credits. (9-16 students/class). *Co-coordinator & Instructor*. Lecture on environmental management, principles of dairy biosecurity, records and monitoring, calf health management, infectious and metabolic diseases. Direct laboratories on physical examination of ruminants and field trip to dairy farm.

4.3 Graduate Curriculum

VMED 8192 Dairy Health Management: Critical Thinking. 2007 – present. *Co-coordinator* with G. Cramer. 1 credit. Offered in spring and fall semesters. 4-6 students/semester. Offered Spring & Fall, 2018: 5 students audited. Critical evaluation of journal articles and supplemental discussions on epidemiologic principles.

VMED 5190. Seminar and Presentation Development for Graduate Students. 2006 – present. *Coordinator and Instructor*. 2 credits. Formal training and practice in planning and delivering scientific presentations. Fall 2018: 16 students

VMED 5910. Writing a Winning Grant Proposal. 2006 – 2016. *Instructor*. Teach one 2-hr class on: Designing a research proposal: Study design and analysis. Approx. 15 students per class.

VMED 8492. Veterinary Epidemiology Seminar. 2001-2005. Instructor. Offered in fall semester. 1 credit. (5-7 students/class). Discussions on veterinary epidemiology topics.

VMED 8393. Medical Conference: Metabolic Diseases of Ruminants. 1999. *Coordinator & Instructor*. Offered in fall semester. 1 credit. (3 Animal Science graduate students). Give lectures on metabolic diseases of ruminants.

5. ADVISING AND MENTORING

5.1 Graduate Student Activities

Graduate Program Membership

Veterinary Medicine Graduate Program, University of Minnesota

- i. Full Member of Graduate Faculty: 2003 - present
- ii. Associate Member of Graduate Faculty: 1999 – 2002

Faculty of Graduate Studies, University of Guelph

- i. Special Graduate Faculty. Sept. 2006 - present

Master's Theses Directed or Co-directed

1. Adithep Konputtar (Co-advisor). MS. Chiang Mai University, Thailand. Feb. 2015 – Dec. 2018. Predicting the milk price penalty using decision tree analysis.
2. Dr. Kruthika Patel (Advisor). MS. 1/2015 – 12/2018. Molecular epidemiology of *Staphylococcus aureus* isolated from bulk tank milk samples of U.S. dairy farms
3. Dr. Andreia Arruda (Major Advisor). MS. 1/2011 – 12/3/2012. Non-inferiority study of three commercial dry cow preparations on new infections and cures during the dry period. Hired into a tenure-track assistant professor position in the Dept. of Veterinary Preventive Medicine at The Ohio State University College of Veterinary Medicine in fall, 2016.
4. Christina Foutz (Major Advisor). MPH. 2009 – 3/2011. Factors affecting antimicrobial resistance in fecal *E. coli* in Minnesota dairy calves.
5. Dr. Mary Donahue (Major Advisor). MS. 5/2007 – 6/2010. Effect of feeding pasteurized colostrum on colostrum characteristics and calf health.
6. Heather Swan (Major Advisor). MPH. 2005 – 8/2006. Impact of colostrum replacements on passive transfer and health in dairy calves.
7. Dr. Jennifer Johnson (Major Advisor). MS. 12/2004 – 2/2006. Colostrum management and neonatal immunology in dairy calves
8. Ana Dresch (Co-advisor). M.S. 8/2012-spring, 2013. Transition cow management.
9. Dr. Luis Mendonça. (Co-advisor). MS/Resident. 5/2009 – present. Comparative fertility of cross-bred cows.
10. Lorissa Green (Co-advisor). MS. 2002 – 2003. Pasteurization of waste milk and colostrum using commercial on-farm pasteurizers

Master's Student Advisees

1. Erin Royster. MS. 6/2011-1/3/2014. Mastitis and milk quality education. Examination committee.
2. Lisa Wolf. M.S. 7/2012 – 12/2012. Parasite load on organic dairy farms.

3. Kate O'Connor. M.S. 7/2011 – 05/2014. Metabolic disease in camelids.
4. Abena Opokua Bampo Opoku. M.S.(Dept. of Food Sci and Nutrition). 9/2011 – 2012. Alternative methods for processing milk.
5. Dr. Preethi Haran. MS. 2009 – 3/2011. Prevalence, risk factors, and genetic diversity of MRSA on MN dairy farms
6. Dr. Girum Ejigu. MPH. 2009 – 03/2011. Prevalence, risk factors, and genetic diversity of Shiga toxin producing *E. coli* on MN dairy farms.
7. Brian Nelson. MS. 2008 – 8/2010. Effect of Vitamin E supplementation on absorption of immunoglobulin G in newborn dairy calves (U of Guelph)
8. Karen Lobeck. MS. 2008-12/2010. Evaluation of cow performance, health and welfare in cross-ventilated housing systems. (Dept. of An. Sci)
9. Dr. Mary Boyce. MS. 2006 -5/2009. Studies of navicular disease in horses
10. Mark Carson. MS. 2006 – 12/2008. Ketosis in transition dairy cattle (University of Guelph)
11. Dr. Cécile Ferouillet. MPH. 2004 – 12/2006. Johne's Disease transmission in dairy cattle
12. Barry Visser. MS. Completed 2003. Effects of diet and drenching on transition cows

Doctoral Dissertations (PhD) Directed

1. Dr. Sam Rowe (Advisor). Sept. 2017 - present. Bedding management and selective dry cow therapy in dairy cattle.
3. Dr. Whitney Knauer (Advisor). PhD. 8/2013-August, 2017. Calf behaviour, health and welfare. Successfully defended her PhD in Aug. 2017. Hired as a contract associate professor within the VMED dept. in Sept., 2017.
4. Dr. Alfonso Lago (Major advisor). PhD. 6/2005 – 6/2009. On-farm culture systems in clinical and subclinical mastitis.
5. Dr. Jerome Carrier (Major advisor). PhD. 07/2002 – 5/2007. Transition cow behaviour and metabolic disease

Doctoral Dissertations (PhD) Co-Directed

1. Erin Wynands (Co-advisor). PhD. Jan, 2018 – present. Interactions between metabolic disease and lameness in transition cows.
2. Grant Stoddard (Co-advisor). PhD. 2014 – Mar. 5, 2018. Lameness prevention in dairy cattle.
3. Gage Matthews (Co-advisor). PhD. 11/2013 – 6/2014 (withdrew). Mastitis control on organic dairies
4. Dr. Patrick Pithua (Co-advisor). PhD. 12/2004 – 6/2009. Preventing Johne's Disease transmission dairy youngstock

Doctoral Committees Served On

1. Marianne Villettaz Robichaud. PhD (Dept. of Population Medicine. U of Guelph). 9/2011 – Aug., 2016. Evaluation of the effect of early intervention during calving on behaviour and health in Holstein cows and calves.
2. Dr. Claire Windyer. DVSc. 2007 – 8/2010. Effect of a Modified Live Vaccine on Respiratory Disease in Preweaned Dairy Calves (U of Guelph).
3. Greg Golombeski. PhD. 2006 – 12/2010. Trace mineral nutrition in transition cows (Dept. of Animal Sci., U of Minnesota)
4. Dr. Luis Espejo. PhD. 2007- 1/27/2012. Test strategies for detection of *M. paratuberculosis* Post-doc

advisor from 1/2012 to 7/2012.

5. Dr. Eran Raizman. PhD. 2001 – 2005. Epidemiology of Johne's Disease in dairy cattle environments
6. Dr. Chuck Fossler. PhD. 2000 – 2004. Epidemiology of Salmonella in dairy cattle environments
7. Dr. Erica McKenzie. PhD. Completed 1999. Nutritional and pharmacological management of recurrent exertional rhabdomyolysis in Thoroughbred horses

External Examiner

1. Caroline Corbett. PhD defense. University of Calgary, Canada. April 30, 2018. Thesis topic: Johne's disease prevalence in Canadian dairy herds.
2. Abena Opokua Bampo Opoku. MS. UMN Food Sci Dept. Thesis topic: Pathogen inactivation in milk.
3. Kimberly MacDonald. PhD defense. University of Prince Edward Island. Aug. 2, 2004. Thesis topic: Evaluation of on-farm culture systems for mastitis control.
4. Jeroen Lohuis. External reviewer of dairy science thesis: "Practical steering of milk urea nitrogen". Agricultural University of Dronten, The Netherlands. May, 25, 2006.
5. Dr. Pipat Arunvipas. PhD Candidate. University of Prince Edward Island. Aug. 2, 2004. Thesis topic: MUN research.

5.2 Professional Veterinary Student Activities (mentoring & research projects)

1998 – present. Regularly employ and/or mentored 2 to 4 or more students per year as research technicians on various projects through summer (full-time) or the school year (part-time). *Individual names not listed before 2014.*

2018: Craig Gapinski, Joseph Hammes (directed study in nutrition), Taylor Aubrey (Riverview dry + cow teat sealant study), Nicole O'Sell (Riverview colostrum project), plus 14 other DVM or Prevet students involved in research projects as student technicians.,

2017: Rochelle Hulinsky, Craig Gapinski, Keith Yorek, Katelyn Rieland, Lacey Ellingson, Hilary Flockhart, Alexia Riley, Josh Brown, Nicole O'Sell, Thomas Duff, Kal Handyside, Zhen Yang, Isaac Secor, Joseph Hammes.

2016: Janna Sorg, Mary Liebenstein (winner of 2016 National Dairy Shrine Student Recognition Award), Isaac Secor and Jordan Sanford

2015: Brian Stampfl, Erika Nagorske

2014: Janna Sorg, Melissa Minkinen, Amanda Smith, Jessica Ernst, Connor McLaughlin, Jon Dorman, Trevor Otte, Megan Thompson, Julie Cho, Lee Michels, Andy Kryzer, Ethan Spronk, Joe Armstrong, Matt Brady, Becky Barclay, Ben Wier,

5.3 Other Mentoring Activities

1. Dr. Nicole Neeser. MPH. Completed 2004. Best practices for antimicrobial use on dairy farms. Assist in survey design.
2. Dr. Christie Malazdrewich. PhD. Completed 2003. Pulmonary expression of inflammatory cytokines in experimental bovine pneumonic manheimiosis. *Role: Statistical consulting.*
3. Dr. Fortune Sithole. PhD. Completed 2005. University of Prince Edward Island. (project mentor)
4. International students mentored or employed as research assistant (MAST Program)
9/18-12/18 Pedro Cecilio Ferro (Brazil)
9/17-12/17 Samuel Basquin (France)

1/16-4/16 Carol Resende (Brazil) and Tuyet Nguyen (Vietnam)
 9/16-12/16 Natalia Ribeiro, Dante Junior, Ronaldo Tolentino and Leandro Dornelas (Brazil)
 1/08 – 8/08 Rafael Neves, Brazil DVM student (MAST program)
 1/08 – 4/08 Lucas Carvalho, Brazil DVM student (MAST program)
 8/08 – 12/08 Dorian Salinas, Honduras Hort. Student (MAST program)
 8/08 – 12/08 Andreia Arruda, Brazil DVM student (MAST program)
 1/09 – 4/09 Pablo Campos, Brazil DVM student (MAST program)
 8/09 – 12/09 Cristiano Gontijo, Brazil agronomy student (MAST program)
 9/09 – 12/09 Andriy Vatulin, Ukraine agriculture student (MAST program)
 9/09 – 12/09 Habner Amorim, Brazil DVM student (MAST program)
 9/10 – 12/10 Aymee Gomez, Brazil (MAST program)
 9/10 – 5/11 Camila Flores, Brazil agronomy study (MAST program)
 1/11 – 6/11 Anderson Nunes Marins, Brazil DVM (MAST program)
 2/11 – 6/11 Adroaldo Begrow, Brazil DVM
 9/10 – 8/11 Alexandre Scanavez, Brazil DVM
 9/12 – 1/13 Kirill Khirtrov, Russia (MAST program)
 9/12 – 12/12 Andrei Sabadyn, Moldova (MAST program)
 9/12 – 1/13 Tetiana Sabadyn, Russia (MAST program)
 9/12 – 1/13 Aleh Barshcheuski, Russia (MAST program)
 9/12 – 1/13 Jose Avarez, Honduras (MAST program)

- i. Merck-Merial Summer Scholars Program 2003 – present
 Note: In Spring, 2017, Sara Roerick was awarded a scholarship with me, but she declined project to pursue an internship.
- ii. Production Animal Medicine (PAM) Club 1999 – present
- iii. Dairy Challenge Training 1 hr/yr. 2016 - present
- iv. Freshman Veterinary Student Mentor – 8-10 students 1999, 2003 – 2005, 2007
- v. Large Animal Clinic Resident Rounds – bovine topics 1999 – 2000
- vi. Mentor Connection High School Program 2000 - 2001

6. SERVICE AND PUBLIC OUTREACH

6.1 Editorships/Journal Reviewer Experience

1. Journal of Dairy Science
 - a. – Member of Editorial Board in the Physiology and Management Section. 2004 - 2007.
 - b. – Ad Hoc Reviewer.
 2001: 1 manuscript; 2002: 4 manuscripts; 2003: 3 manuscripts; 2004: 2 manuscripts;
 2005: 6 manuscripts; 2006: 4 manuscripts; 2007: 3 manuscripts; 2008: 2 manuscripts
 2009: 2 manuscripts; 2010: 1 manuscript. 2011: 2 manuscripts. 2012: 6 manuscripts. 2013:
 6 manuscripts; 2014: 3 manuscripts; 2015: 5 manuscripts; 2016: 5 manuscripts; 2017: 4
 manuscripts; 2018: 6 manuscripts reviewed
2. Expert reviewer for chapter: Facility systems for the young calf. For new edition of the Large Dairy Herd Management Text. 3/15/2016
3. Journal of Dairy Research. 1 manuscript reviewed in 2004. 1 in 2016
4. The Bovine Practitioner. 1 manuscript reviewed in 2001, 2 in 2009. 1 manuscript in 2010; 1 manuscript in 2011. 1 in 2016. 1 in 2017.

5. Canadian Journal of Veterinary Research. Reviewed 1 manuscript. 2/2015.
6. Expert reviewer for STROBE for Veterinary Medicine Survey. March, 2014.
7. Ad Hoc Reviewer for AABP: Reviewed 37 abstracts. June, 2014.
8. The Veterinary Journal. 1 manuscript reviewed in 2012. 1 in 2013.
9. Expert Reviewer for ISU Factsheet: Pasteurized Waste Milk Considerations. 10/2011.
10. Scientific Reviewer for Dairy Calf and Heifer Association (DCHA) Gold Standards. Calves: Birth to Six Months. Feb. 20, 2009.
11. Expert reviewer for 2007 NAHMS Report: Heifer calf health and management practices on U.S. dairy operations. Dec., 2009.
12. Professional Animal Science Journal – Ad Hoc Reviewer.
2008: 1 manuscript
13. Expert reviewer for 2007 NAHMS Dairy Biosecurity Report. Oct. 13, 2008.
14. Ad hoc reviewer for web-based curriculum on appropriate antimicrobial usage. Michigan State University College of Veterinary Medicine and the Centers for Disease Control and Prevention. Jan, 2006.
15. Nutrients Journal. Reviewed on manuscript. 3/2011.
16. Journal of Applied Animal Research. Review one manuscript. 3/2011.
17. Member of Scientific Committee for 23rd World Buitiatrics Congress (Quebec City, Quebec. July, 2004).
Jan. 2004. Reviewed 9 abstracts for oral or poster presentation.
18. Journal of Applied Animal Research. 2011: 1 manuscript
19. Journal- Nutrients. 2011: 1 manuscript
20. Journal of Veterinary Internal Medicine. 1 manuscript reviewed in 2006. 2013: 1 manuscript
21. Journal of Reproduction-Nutrition-Development (France). 1 manuscript reviewed in 2005.
22. American Journal of Veterinary Research. 1 manuscript reviewed in 2003.
23. Journal of Veterinary Medicine. 1 manuscript reviewed in 2004.
24. Journal of the American Veterinary Medicine Association: 1 reviewed in 2005. 2011: 1 manuscript
25. Journal of Veterinary Microbiology. 2013: 1 manuscript reviewed.

6.2 Committee Memberships / Expert Groups

1. Canadian Bovine Mastitis and Milk Quality Research Network (CBMQRN) scientific committee. 2/2017 – present.
2. National Mastitis Council. **President in 2/2016-1/2017**. Board of Directors. January, 2011 – present (3 year term). Secretary 1/2012 – present. Second Vice president in 2014. First Vice president in 2015. Monthly BOD teleconference meetings. Twice/year on-site BOD meeting (Annual and regional meeting).. Member. Research Committee of the National Mastitis Council. 2003 – present.
2018: Chair of Nomination Committee & NMC Scholars application review committee
3. Bovine Alliance on Management and Nutrition (BAMN) (nominated position). Sept. 2005 – present. Bimonthly teleconference meeting developing producer factsheets. 2 documents submitted in 2018.
4. NE 1048 (previously NE1028 from 2007 to 2011) and NE1009 (2002-2006). 2002 – present. Multistate Project – Mastitis resistance to enhance dairy food safety (+ Regional Mastitis Research Worker's Group). Member and **Project Leader** for the University of Minnesota. President in 2006. Attend annual meeting and submit annual report.
5. Member. Food Quality, Safety and Security Committee of the American Association of Bovine Practitioners. 2000 – present.
6. Member of Johne's Disease Integrated Program. 2004 – present.
7. Member. Minnesota Johne's Disease Working Group. 2000 – present.

8. Member. Integrated Surveillance Work Group. Center for Animal Health and Food Safety. University of Minnesota. 2002 – present.
9. Contributor to designing 2014 NAHMS calf study in 2013. 4/2013 – 1/2014.
10. Reviewer: Food animal questions being developed for NAVLE exam. June 9, 2009
11. Contributor. DCHA Gold Standards for Calves: Birth to 6 months. Dairy Calf and Heifer Association (DCHA).
12. Expert Reviewer: DCHA Gold Standards III. Animal welfare standards for rearing dairy calves and heifers from birth to freshening, across the United States. 8/2011
13. Contributor to Fort Dodge Animal Health submission in response to 21 CFR Part 530 FDA-2008-N-03261 order to prohibit the extralabel use of cephalosporin antimicrobial drugs in food producing animals. Sept., 2008.
14. Cattle Vaccine Key Opinion Leader Meeting. Intervet Schering-Plough. De Soto, KS. May 14-15, 2008.
15. Advisor. American Protein Corporation, Inc. Spring, 2007-2009.
16. Member of Program Committee for 2008 National Mastitis Council Annu. Meet.
17. Judge: Fresh Cow Makeover Contest. Dairy Today Magazine. April 6, 2006.
18. Member of Scientific Committee for 23rd World Buitatrics Congress (Quebec City, Quebec. July, 2004). 2003 - 2004.
19. Advisor. Monsanto Dairy Business Scientific Advisor Group. 2002 – 2004.
20. Scientific Advisor. Dairy Tech Inc.. Greely, CO. Met 1 day in 2014. 1 day in 2015
21. Secretary: Graduate Students of Population Medicine Affairs Committee. Department of Population Medicine. University of Guelph. Guelph, Ontario. July 1997 – Oct. 1998.

6.3 Review panels for external funding agencies, foundations, etc.

1. External expert for USDA-FSIS. Literature search for drying times for calf umbilicus. Feb. 14, 2018
2. External Advisory Panel to Review Food Animal Curriculum. College of Veterinary Medicine and Biomedical Sciences. Colorado State University. March 26-27, 2018.
3. Reviewer for NMC Scholarship applications. 9 applications reviewed (2 hr) 7/1/18
4. Judge for B.I.V.I. Producers for Progress Program. 60 herds reviewed (3 hr). 8/3/18
5. Ad Hoc Reviewer. Dairy Farmers of Canada Research program. 5/2017
6. Ad Hoc Reviewer. Canadian Bovine Mastitis and Milk Quality Research Network (CBMQRN) Reviewed 11 grants plus 3 hr meeting. 5/2017
7. Ad Hoc Reviewer. AABP Foundation Proposal reviews. 2/2017
8. Ad Hoc Reviewer. OMAFRA U of Guelph Research Funding Program. 3/2017
9. Ad Hoc Reviewer. USDA AFRI Exploratory Research Program. 3/6/2017
10. Ad Hoc Reviewer. B.I.V.I. Producers for Progress Awards. 8/2017
11. Review of University of Montreal associate professor for tenure and promotion. 9/2016.
12. Expert reviewer for USDA Dairy 2014 Report. Part I: Reference of Dairy Cattle Management Practices in the United States, 2014.
13. Ad Hoc Reviewer. MOMAFRA/U of G Research Program. 02/2015
14. Ad Hoc Reviewer. U of Saskatchewan Research Program. 04/2015
15. Ad Hoc Reviewer. MnDrive, 2014. Reviewed 5 research proposals. May, 2014.
16. Ad Hoc Reviewer. SBIR – NIH. Reviewed two grant proposals May, 2014.
17. Ad Hoc Reviewer. Population Systems Signature Program. Reviewed 8 proposals. April, 2014.
18. Scientific reviewer for AABP Foundation. Reviewed 2 proposals. March, 2014.
19. Peer Evaluator: On-line Mastitis Investigation Course by QMPS, Cornell, NY. 8/2013.
20. Ad Hoc Reviewer. Canadian Bovine Mastitis and Milk Quality Research Network. Sept., 2012. – 1 proposal.

21. Review of UWI-Madison Veterinary College associate professor for promotion. Sept. 2013
22. Review of NCSU Veterinary College associate professor for promotion. Sept. 2013
23. Review of WSU assistant professor for tenure and promotion. Sept. 18, 2012.
24. External Reviewer: Promotion and Tenure for Epidemiology professor. University of Veterinary and Animal Sciences. Lahore, Pakistan. 7/2011.
25. Review of North Dakota State University assistant professor for tenure and promotion. 8/2009.
26. Ad Hoc Reviewer. OMAFRA-U of Guelph Research Program. March, 2011 - 1 proposal. March 2012 – 1 proposal.
27. Ad Hoc Reviewer. 2009, 2010, 2011. JDIP – Johne’s Disease Integrated Project. 3 grant proposals reviewed each year.
28. Ad Hoc Reviewer. Feb. 22, 2009. United States – Israel Binational Agricultural Research and Development Fund (BARD). 1 mastitis-related proposal reviewed.
29. Ad Hoc Reviewer. 12/2008. JDIP – Johne’s Disease Integrated Project. 2 grant proposals reviewed.
30. Ad Hoc Reviewer. 01/13/2007: USDA – CSREES/SBIR Program.
31. Ontario Ministry of Agriculture, Food and Rural Affairs. New Directions Research Program. - Review grant proposals: 2/2007, 11/05/2007, 2/27/2008, 3/2015
32. Blue Sky Research Program. RCVS Trust. London, England. 2005.
33. CDC and University of Michigan. Review program: Web-based veterinary curriculum on appropriate antimicrobial usage. 2005.
34. U.S.D.A. Small Business Innovation Research (SBIR) Program.
Jan. 2004 – 1 grant proposal reviewed
Jan. 2007 – 1 grant proposal reviewed
35. University of Minnesota Veterinary Medical Center Research Committee. 2001–2002.
36. Minnesota Agricultural Experiment Station Competitive Grants. April 2000.
37. Ad Hoc Reviewer: Minnesota Rapid Agricultural Response Fund and MN Turkey Research and Promotion Council Competitive Grants. June 2000.
38. National Research Council of Canada and the Prince Edward Island Dairy Producers’ Association Grant Competition. 1998.

6.4 Organization of conferences, workshops, panels, symposia

1. Chair of program planning committee (2016-present), Moderator: Minnesota Dairy Health Management Conference. 1999-present.
2. Judge for Student Case Competition. 51st AABP Conference. Sept. 13-15, 2018 Phoenix, AZ.
3. Moderator for Research Summary Section. 51st AABP Conference. Sept. 13-15, 2018 Phoenix, AZ.
4. Co-planner, moderator and speaker: 3rd & 4th University of Minnesota China Dairy Conference. 2016, 2017.
5. Program chair and moderator. National Mastitis Council 55th Annual Meeting. Jan. 31-Feb. 2, 2016. Glendale, AZ.
6. Moderator: AABP Annu. Meet. Sept. 18-20, 2014. Albuquerque, NM.
7. NMC 54th Annu Mtg 2015 program planning committee and short course coordinator. 2014. Feb. 1-3, 2015. Memphis, TN.
8. NMC 55th Annu Mtg. 2016. Program planning committee chair. Jan. 31-Feb. 2, 2016. Glendale, AZ.
9. Program coordinator/moderator for preconference seminar: Advances in Health Management of Preweaned Dairy Calves. MN Dairy Health Conference. May 20-22, 2014. Minneapolis, MN
10. Moderator plus judge for Grad Student Competition (research summaries) 37th Annual Conference of the American Association of Bovine Practitioners – and 3rd International Symposium on Mastitis and Milk Quality. St. Louis, MO. Sept. 22-24, 2011.

11. Nominator and Presenter: Alpha Award of Excellence to Dr. Pamela Ruegg. 42nd Annu. Conf. AABP. Sept. 10-12, 2009. Omaha, NB.
12. Planning committee, moderator (from 10/2008 to 9/2009): The 10th International Colloquium on Paratuberculosis. Minneapolis, MN. Aug. 9-14, 2009.
13. Coordinator, Chair, Moderator: Preconference seminar: Calf Management (0 to 4 months) and Scientific Session. Minnesota Dairy Health Management Conference. May 19-21, 2009, St. Paul, MN.
14. Coordinator and Chair: Preconference seminar: Use of on-farm culture systems in mastitis control programs. Regional Meeting of the National Mastitis Council. Green Bay, WI. Aug. 12-13, 2008.
15. Meeting Co-Chair, Subcommittee Chair, and Moderator at 15th ADSA Discover Conference. Biology of the Calf. Nov. 16-19, 2008. Roanoke, VA.
16. NMC 47th Annual Meeting. New Orleans, LA. Jan. 20-23, 2008. Program planning committee. Subcommittee Co-Chair and Moderator of Session 5: Bedding management and milker management.
17. NE1009/NE1028 Regional Mastitis Research Worker's Group. Meeting organizer. Minneapolis, MN. Nov. 8-10, 2006 and Minneapolis, MN. Nov. 7-9, 2007.
18. 38th Annual Conference of the American Association of Bovine Practitioners. St. Paul, MN. Sept. 21-23, 2006.
19. 37th Annual Conference of the American Association of Bovine Practitioners. Fort Worth, TX. Sept. 23-25, 2004.
20. 35th Annual Conference of the American Association of Bovine Practitioners. General Sessions – Infectious Disease Update. Sept. 25-28, 2002. Madison, WI.
21. 33rd Annual Conference of the American Association of Bovine Practitioners. Research Summaries: Session II – BVD and Neospora. Sept. 21-23, 2000. Rapid City, SD.

6.5 Service to the University/College/Department

Department

1. Filled in as Faculty Advisor to Laboratory for Udder Health for 2 weeks while Dr. Royster was on family leave (June 2018). Phone consults 30 minutes/day.
2. Faculty Mentor:
 - a. Gerard Cramer. 12/2015 – present (Chair)
 - b. Luciano Caixeta. 10/2017 – present (Chair)
 - c. Meggan Craft 2014 – 2018
 - d. Rafael Bisinotto. 1/2016 – 12/2016
3. Dairy Group Division Head. VPM Dept. 12/2015 – present
4. Search Committee member: Faculty in Dairy Production Medicine. 10/2016 – spring 2017.
5. Search Committee Chair: Dairy Production Medicine Faculty. Jan-July, 2015.
6. Search committee: Resident in dairy production medicine. 8/2013.
7. VPM Dept. Chair administrative review committee. Fall, 2013.
8. Search Committee (Chair): Faculty position in Dairy Production Medicine. Sept. 2012 – May, 2013.
9. Search Committee: Instructor in Dairy Production Medicine. 01/2012 – 04/2012.
10. Peer Teaching Evaluator for fellow CVM faculty. 1 review. March 21, 2011. 1 Review 12/2014 (Madill).
11. Faculty Member Team for Junior Faculty. Dr. Ricardo Chebel. 2010 – 2013. Meggan Craft. 4/2012 – present. Tim Goldsmith. 2012 – 2013. Montse Torremorell. 11/18/2014 – present.
12. Search Committee. Dairy Production Medicine resident position. Nov. 2008 – 2009.
13. Search Committee. Dairy Production Medicine faculty position. June, 2007 – 2010.
14. Search Committee: Bovine Theriogenologist. Department of Clinical and Population Sciences. University of Minnesota. April 2003 – 2004.

15. Search Committee: Clinical Specialist Position in Small Ruminant and Food Animal Medicine. Department of Clinical and Population Sciences. University of Minnesota. Aug. – Sept. 2002.
16. Search Committee: Instructor – Veterinary Public Health. Department of Clinical and Population Sciences. University of Minnesota. Feb. 2002.
17. Annual Merit Review Committee – Teaching Evaluation Committee. Jan. 2000 – present.
18. Search Committee (Chair): Instructor in Dairy Production Medicine. Department of Clinical and Population Sciences. University of Minnesota. June – Nov. 2001.
19. Search Committee: Director for the Center for Animal Health and Food Safety. Department of Clinical and Population Sciences. University of Minnesota. May 2000 – Feb. 2001.
20. Search Committee: Dairy Outreach and Extension Veterinarian. Department of Clinical and Population Sciences. University of Minnesota. Apr. 2000 – July 2001.
21. Search Committee: Diagnostic Pathologist – two positions. Veterinary Diagnostic Laboratory. University of Minnesota. Jan. – Apr. 2001.
22. Search Committee: Research Assistant – Johne’s disease research projects. Department of Clinical and Population Sciences. University of Minnesota. Sept. – Nov., 2000.
23. Search Committee: Small Ruminant Specialist. Department of Clinical and Population Sciences. University of Minnesota. June – Aug., 2000.
24. Search Committee: Instructor for Veterinary Pathology. Veterinary Diagnostic Laboratory, University of Minnesota. Feb. – Aug., 2000.
25. Search Committee: Assistant or Associate Professor of Veterinary Clinical Pathology. Minnesota Veterinary Diagnostic Laboratory. University of Minnesota. June – Aug., 2000.
26. Search Committee: Veterinary Diagnostic Pathologist. Minnesota Veterinary Diagnostic Laboratory. University of Minnesota. Feb. – Aug., 1999.
27. Search Committee: Resident in Dairy Production Medicine. Department of Clinical and Population Sciences. University of Minnesota. Jan. – Mar., 1999.
28. Search Committee: Chair for the Department of Population Medicine. Department of Population Medicine. University of Guelph. Guelph, Ontario. July 1997 – Feb., 1998.

College

29. SERC Committee. 9/2018 – present
30. CVM Research Committee. 9/2001 – 8/2002. 9/2010 – 2016. 9/2018 – present.
31. CVM Promotion and Tenure Committee. 2014 – present
 - a. Vet student admissions interviews: 2004 – present. Interview 1 day per year
32. Miracle of Birth Center. Minnesota State Fair. 1 day each year. Aug., 2004 - present.
33. Faculty advisor to the VetFAST program. 2008-present. Several meetings/year with students/planning. Application review (approx. 10/yr). Individual student mentoring on preparation for application.
34. Annual attendance at Convocation ceremony for veterinary students. 1999 – present.
35. Search Committee. VBS Dept. Faculty position in Microbiome research (AGREETT). 12/2016 – present.
36. Search Committee. CVM Faculty position in antimicrobial use & resistance (AGREETT). 5/2017 – 11/2017.
37. Program Advisory Committee (PAC) for VMED graduate program. January, 2009 – Feb, 2013. July, 2014 – spring, 2017. Monthly 1 hr meeting, applicant reviews, Grad student recruiting day.
38. Population Systems Signature Program Steering Committee. 2015 – 2017.
39. Faculty advisor/interviewee: MMPA - Leveraging programs and resources to support Minnesota dairy producers. 1 hr interview on campus. Oct. 12, 2016.
40. Administrative Review Committee – Dr. Laura Molgaard. 12/3/2014 – 1/4/2015

41. Clinical skills taskforce – curriculum revision. 2013.
42. Admissions Committee. January, 2009
43. Committee for Curriculum and Academic Affairs (2008): Sept. 2004 – 2011.
44. Awards, Honors and Scholarship Committee. Includes attendance at annual awards ceremony to announce and handout awards. University of Minnesota Veterinary Medical Center. Sept. 2000 – May, 2004. Fall 2005 – 2015.
45. AHC Academic Council. Dec. 2006 – spring, 2008.
46. Review of U of MN (Morris) assistant professor for tenure and promotion. 7/16/2007.
47. Member of Subcommittee on Rotation Grading. 2006.
48. Search Committee: Diagnostic Pathologist. Department of Veterinary Diagnostic Medicine. Mar. 2004 – 2005.
49. Search Committee: Chair for Department of Small Animal Clinical Sciences. University of Minnesota. Aug. 2003 – 2004.
50. Careers Committee. University of Minnesota Veterinary Medical Center. Aug. 2002 – 2004
51. Conflict Review and Management Committee – review panel participant. Veterinary Teaching Hospital. University of Minnesota. Aug. 2001 – 2002.
52. Integrated Surveillance Work Group. Center for Animal Health and Food Safety. University of Minnesota. Aug. 2002 – present.

University

1. Rapid Agricultural Response Fund Review Committee. 5/2015 – 2018.
2. Task force: Veterinary Advisory Committee – Prevention of Animal Cruelty. Nov. 2014.
3. Faculty Council Committee (2008). Sept. 2005 – 2008.
4. Search Committee: Dairy Nutrition Extension Position. Department of Animal Science. University of Minnesota. June – Aug., 2001.
5. Search Committee: Dairy Production / Management Systems Position. Department of Animal Science. University of Minnesota. June – Aug., 2001

6.6 Public and Other Service

1. Volunteer. We Can Ride therapeutic riding center. Medina, MN. 1/2019 - present
2. Board of Directors, Heifer International. Little Rock, AR. 11/2011 – fall, 2017 (6 year term) 3 meetings per year, local fund raising activities (Baby Animal Fair 4/2017)
3. Member. U.S. Veterinarians Without Borders. Fall, 2009 – 2016. Mar., 2009. Contributed 1.5 days to review 30 student applications for acceptance to a VWB mission to Liberia in July. Developed and helped deliver 2 week short course on ruminant health management to animal health care workers in Liberia in July, 2013. Reviewed and provided input on new grant proposal in 10/2015.
4. Member. Veterinarians Without Borders – Canada. Jan. 2009 – 2014.

6.7 Selected Professional Development, Continuing Education Courses and Conferences Attended

1. 35th ADSA Discover Conference on Food Animal Science: Effects of Stress on Health and Production in Dairy Cows. Itasca, IL. Oct. 29-Nov. 1, 2018
2. Annual Meeting of the National Mastitis Council. 1999, 2003-present (+ regional meeting Ghent

- 8/4/2014). 2018 Short course: Engaged employees: The connection between protocols and performance.
3. Annual Minnesota Dairy Health Conference. St. Paul, MN. 2000 – present. Stockmanship training short course. 4/18/2019.
 4. Mastitis Research Worker’s Conference and NE1009/NE1028/NE1048 Regional Mastitis Research Worker’s Meeting. 2002 - present.
 5. Annual Conference of the American Association of Bovine Practitioners. 1997, 1999 – present. Preconference seminars: 1997 - Dairy Herd Evaluation: A Computer- Aided Approach. 3 day seminar; 1999 and 2006 - Applied Dairy Nutrition and Problem Solving, and Dry Cow Nutrition; 2000 – Advanced Ruminant Nutrition: Dietary Proteins, Fats and Waste Management; 2002 - Johne’s Disease: Current Concepts, Diagnostics, and Management Strategies; 2003 - Energy-Associated Disease: Risk Factors, Monitoring Programs and Prevention; 2004 – Transition cow nutrition; 2003 – present: The replacement heifer from birth to weaning. 2015. Applied Dairy Nutrition.
 6. U of MN workshop: Searching for Excellence and Diversity: A workshop for current and future search committee members. April 21, 2015.
 7. U of MN IACUC Training Course. Minneapolis, MN. Jan. 31, 2012.
 8. Livestock in the Developing World: Working to ensure veterinary capacity building is appropriate. Seminar 14 in 45th Annu Conf. AABP. Sept 19, 2012. Montreal, QC.
 9. Local Policy Making for Animal Health, Public Health and Food Systems. St. Paul, MN. Oct. 17-19, 2011.
 10. CFI Food System Experts Engagement Training. St. Paul, MN Sept. 1, 2010.
 11. Semester Sabbatical – Jan – April, 2010. University of California – Davis. Two weeks at NAHMS (USDA). Fort Collins, CO.
 12. Engaging Intergovernmental Organizations. Global Initiative for Food Systems Leadership, Center for Animal Health and Food Safety, University of MN. Geneva, Switzerland; Paris, France; Rome, Italy. February 21-27, 2010.
 13. Academy of Dairy Veterinary Consultants. 04/2010. Sacramento, CA; Apr. 15-16, 2011, Half Moon Bay, CA (Became certified for F.A.R.M. Welfare Assessment Program).
 14. University of Minnesota One Health Program. CAHFS. June 3-4, 2009.
 15. Methodologies in epidemiological research. Schwabe Symposium. Chicago, IL. Dec. 6, 2009.
 16. CSREES Animal Protection and Biosecurity PD Workshop. Dec. 7, 2008. Chicago, IL.
 17. XII Curso Novos Enfoques na Produção e Reprodução de Bovinos. Uberlândia – Minas Gerais, Brazil. March. 6-7, 2008.
 18. Annu. PDHGA Dairy Calf and Heifer Conference. 2007, 2008.
 19. Calf Management Conference. June 20-22, 2007. Steinkjer, Norway.
 20. Annual Meet. of the Minnesota Veterinary Medical Association. 2000 – 2005, 2007 – 2009. 2011, 2014
 21. PubH 6325. Data processing with PC-SAS. Spring, 2007. (audit 1 credit course)
 22. Assoc. for Veterinary Epidemiology and Preventive Medicine (AVEPM) 2006 Symposium. Conference of Research Workers in Animal Diseases (CRWAD). Chicago, IL. Dec. 3, 2006.
 23. Graduate course (2 credits): VMED 5082. Diagnostic epidemiology of infectious diseases. U of MN. Spring semester, 2006.
 24. 23rd World Buiatrics Congress 2004. Quebec City, Quebec, Canada. July 11-12, 2004.
 25. Replacement Management. Dairy Health Management Certificate Program (Module 8). University of Guelph. Guelph, Ontario. Jan. 20-22, 2004.
 26. Teaching Enrichment Workshop: Peer Observation of Teaching. Minneapolis, MN. 03/2003.
 27. Advanced Quantitative Epidemiology. Module 2. Guelph, ON. June 25-29, 2001.
 28. Web C.E. Course: Dairy Decision Making in a Financial Context. Eight-week modular course. University of Minnesota Veterinary Medical Center. Summer, 2000.
 29. Bush Faculty Development Program on Excellence and Diversity in Teaching. University of Minnesota.

August, 1999 – May, 2000.

7. CLINICAL/LABORATORY SERVICE

Clinical Service - Herd investigations or service on dairy management teams

1. St. Paul Campus Dairy. Veterinarian of record for youngstock program. 6/2015 – present
110. Herd investigations: Approx. 3-5 per year from 1999 – present
111. Herd research/student internships. 2018: Assist Riverview Dairy System with design of 2 studies (conducted by summer interns Nicole O'Sell and Taylor Aubrey) plus assist with data analysis and interpretation.
112. Phone or email consultations with producers/veterinarians: Approx. 2 hrs/week. 1999-present.
113. Minnesota Zoo and Como Zoo. Occasional nutritional/colostrum management consulting 2003-present.
114. Shanghai Dairy Diagnostic Team. Quarterly meetings. July 2000 – 2011.
115. Dreier Dairy Diagnostic Team. Quarterly meetings. Dec. 2001 – 2009.