

CURRICULUM VITAE

Julia M. Smith, DVM, PhD

University of Vermont, Department of Animal and Veterinary Sciences

PRESENT POSITION

University of Vermont, Burlington

2016 – present **Research Associate Professor, Department of Animal and Veterinary Sciences**

- ❖ Improving and protecting food animal health through research and outreach on animal health and biosecurity. Leading an integrated multi-disciplinary, multi-institutional project on the human behavioral dimensions of animal health protection (40% FTE).
 - ❖ Guiding students to think more critically about animal health and welfare and advising students (60% FTE).
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EDUCATION

GRADUATE

1996 – 2002 **Cornell University Graduate School**, Field of Animal Science
Ph. D. Major: Animal Nutrition; Minor: Nutritional Biochemistry, August 2002

1990 – 1994 **D. V. M., Cornell University College of Veterinary Medicine**, May 1994

UNDERGRADUATE

1986 –1990 **Cornell University College of Agriculture and Life Sciences**, *Ithaca, NY*
B. S. Biological Sciences, May 1990

Junior Year Abroad, University of Reading, *Reading, England*, 1988 – 89
Course: Physiology, Biochemistry, and Nutrition of Farm Animals Part II

PROFESSIONAL EXPERIENCES

2014 – 2016 **Extension Associate Professor, Department of Animal Science**
University of Vermont

Planning, delivering, and evaluating programs on calf nutrition and management, biosecurity, and agricultural emergency preparedness (50% FTE).

Guiding students to think more critically about animal welfare and advising students (30% FTE).

2013 – 2014 **Extension Associate Professor, Department of Animal Science, University of Vermont**
Improving and protecting dairy herd health through research and outreach on nutrition and biosecurity.

2002 – 2013 **Extension Assistant Professor, Department of Animal Science, University of Vermont**
Improving and protecting dairy herd health through research and outreach on nutrition and biosecurity.

1994 – 1996 **Associate Veterinarian**
North Country Veterinary Services, Pulaski, NY
 Providing veterinary services to pets and agricultural animals in rural Oswego County as part of a multi-doctor practice.

HONORS AND AWARDS

2016 National Association of County Agricultural Agents (NACAA) Agriculture Awareness and Appreciation Award State Winner
 2015 John C. Finley Memorial Award, Vermont Dairy Industry Association
 2013 NACAA Distinguished Service Award
 2013 NACAA Communication Award Regional Winner, for publication
 2007 Peggy R. Williams Emerging Professional Award, Vermont Women in Higher Education
 2007 NACAA Communication Award State Winner, for fact sheet
 2006 NACAA Achievement Award
 2005 NACAA Communication Award National Winner, for videotape
 2004 NACAA Communication Award Regional Finalist, for learning module, personal column, and videotape
 2001 Maynard Award, Cornell University Department of Animal Science
 1998 – 1999 Purina Mills Dairy Research Fellowship
 1990 Gamma Sigma Delta, Honor Society of Agriculture, inducted

CONTINUING EDUCATION AND PROFESSIONAL CERTIFICATIONS

2015 **Teaching and Learning in the Animal Sciences: Changing the Animal Science Teaching and Learning Paradigm - An interactive Workshop on How to Use Case Study Teaching to Foster Critical Thinking and Classroom Discussion**, ADSA-ASAS Joint Annual Meetings (8 h)
 2012 **Recertification Module for John's Certified Veterinarians**, University of Wisconsin School of Veterinary Medicine
 2011 **Professional Animal Scientist**, American Registry of Professional Animal Scientists, Dairy Cattle Specialization
 2011 **Strengthening Community Agrosecurity Planning**, certified trainer (16 h)
 2011 Emergency Management Institute IS-00811, **Emergency Support Function (ESF) 11: Agriculture and Natural Resources**
 2011 Emergency Management Institute IS-00703.1, **NIMS Resource Management**
 2011 Incident Command System (ICS) 300, **Intermediate ICS for Expanding Incidents** (24 h)
 2011 Emergency Management Institute: IS-00200.b, **ICS for Single Resources and Initial Action Incidents** (ICS-200)
 2010 Incident Command System, **Basic Public Information Officer (PIO) Training** (2 h)
 2010 Emergency Management Institute IS-00120.a, **Introduction to Exercises**

2007	Agriculture & Food Vulnerability Assessment Training (16 h)
2007	Incident Command System (ICS)-402, ICS Overview for Executives/Senior Officials (2 h)
2006	Emergency Management Institute IS-00111, Livestock in Disasters
2006	Disease Risk Management Tools for Beef and Dairy Producers , certified trainer
2006	Foreign Animal Disease Response Emergency Responder Training , certified master trainer

GRANTS AWARDED

Current

A human behavioral approach to reducing the impact of livestock pest or disease incursions of socio-economic importance (PD)

- USDA NIFA AFRI 004417
- April 2015 – March 2020
- \$7.4 million
- Integrated applied research and outreach project on livestock biosecurity
- Led development of Coordinated Agriculture Program proposal

Previous

Control of *Haemonchus contortus* parasitism in northern New England sheep and goats through manipulation of its winter ecology and adaptation to climate change (co-PI)

- Northern New England Cooperative Research Program
- July 2014 – June 2016
- \$120,000
- Applied research project to characterize winter-hardiness of *Haemonchus* and New England-appropriate strategies for control on small ruminant farm

Relationship between Feeding and Developmental Regulation of the Neonatal Calf (co-PI)

- Hatch
- October 2013 – September 2016, terminated August 2014
- \$45,000
- Reviewed by CALS Hatch committee
- Research project on responses to early nutrition in the dairy calf

Costs and Challenges Associated with Developing and Implementing a Community-Wide Biosecurity Plan (co-PI)

- USDA NIFA (CSREES) AFRI Program #92620
- March 2010 – February 2014
- \$470,894
- Reviewed by AFRI panel
- Integrated research and outreach project on dairy farm emergency biosecurity
- Served as primary author of the proposal and lead the project with Bob Parsons (CDAE) and Ellen Rowe (UVM Extension).

Vermont Cattle Health Improvement Program (co-PI)

- George Walker Milk Fund
- January 2011 – December 2011, extended through December 2012
- \$10,000
- Reviewed by Fund trustees
- Outreach project on Johne's disease management and herd status certification
- Served as primary author of the proposal and lead the project with the assistant state veterinarian.

Vermont Cattle Health Improvement Program (co-PI)

- George Walker Milk Fund
- January 2010 – December 2010, extended through August 31, 2011
- \$27,755
- Reviewed by Fund trustees
- Outreach project on Johne's disease management and herd status certification
- Served as primary author of the proposal and led the project with the assistant state veterinarian.

Evaluating Resilience of Vermont's Dairy Industry through Simulation Modeling (PI)

- Hatch
- October 2009 – September 2011, extended through September 2012
- \$25,000
- Reviewed by CALS Hatch committee
- Research project on dairy biosecurity and risk of disease spread
- Served as primary author of the proposal; conducted targeted mail survey of Vermont dairy farmers; developed regionally appropriate movement rate parameters; analyzed and presented results.

Development of Biosecurity Materials for eXtension Website (PI)

- USDA NIFA
- Subaward of EDEN Homeland Security Initiative V: Strengthening EDEN's Role in Homeland Security, Food and Ag Defense, and All-Hazard Education
- April 2010 – August 2010, extended through November 2012
- \$18,383
- Outreach project to promote biosecurity through national eXtension platform
- Coordinated a national project team and led a team of summer interns to develop, review, and improve eXtension content.

Regional Dairy Quality Management Alliance (RDQMA) Pilot Herd Vermont (co-PI)

- USDA-ARS, renewal
- October 2009 – September 2010
- \$33,415
- Internal ARS review
- Research project on presence and persistence of Salmonella, E. coli, Listeria, and Mycobacterium avium subsp. paratuberculosis (Johne's disease) on dairy farms
- Led VT team with state veterinarian; made quarterly farm visits to collect samples; assisted with manuscript preparation.

Agricultural Freight: Network Access and Issues (PI)

- National University Transportation Center
- Subaward of US DOT DTRT06-G-0018
- April 2007 – June 2010
- \$50,000
- Reviewed by Transportation Research Center advisors
- Research project on network analysis of milk flows
- Collaborated on analysis of milk flows using network robustness index and presented abstract.

Robustness of Agricultural Freight Transportation Networks Serving Vermont (PI)

- Hatch
- October 2007 – September 2009
- \$10,000
- Reviewed by CALS Hatch committee
- Research project on transportation issues associated with milk collection
- Led the collection of Vermont milk route data and prepared data for analysis.

Regional Dairy Quality Management Alliance (RDQMA) Pilot Herd Vermont (co-PI)

- USDA-ARS
- September 30, 2004 – September 29, 2009
- \$152,994 (over entire project period, each amendment not listed separately)
- Internal ARS review
- Research project on presence and persistence of Salmonella, E. coli, Listeria, and Mycobacterium avium subsp. paratuberculosis (Johne's disease) on dairy farms
- Led VT team with state veterinarian; made quarterly farm visits to collect samples; assisted with manuscript preparation.

Preparing Dairy Producers to Survive a Bio-disaster (PI)

- Northeast Center for Risk Management Education
- July 2008 – June 2009
- \$34,996
- Reviewed by panel
- Outreach project on emergency biosecurity
- Served as primary author of the proposal and led the project.

Ready Ag – Disaster and Defense Preparedness for Production Agriculture

- CSREES Special Needs
- October 2007 – September 2008
- No direct
- Reviewed by panel
- Outreach project on farm security and disaster preparedness
- Wrote a letter of support and assisted with development of dairy-specific materials on dairy security, biosecurity, and disaster preparedness.

Management Systems to Improve the Economic and Environmental Sustainability of Dairy Enterprises (PI)

- Hatch
- Member of multi-state research project NC-1119
- October 2004 – September 2007
- \$63,000
- Reviewed by CALS Hatch committee
- Research project on early calf nutrition and immune response
- Mentored 2 graduate students on project.

Calf Management Workshop—Caledonia

- Northeast Center for Risk Management Education, County-Regional grant program
- 2007
- \$1,000
- Outreach project on calf management
- Coordinated and conducted calf management workshop.

Calf Management Workshop—Franklin

- Northeast Center for Risk Management Education, County-Regional grant program
- 2006
- \$750
- Outreach project on calf management
- Coordinated and conducted calf management workshop.

Benchmarking Workshop—Addison

- Northeast Center for Risk Management Education, County-Regional grant program
- 2006
- \$750
- Outreach project on financial risk management
- Coordinated dairy financial management workshop.

Calf Management Workshop—Chittenden and Franklin

- Northeast Center for Risk Management Education, County-Regional grant program
- 2005
- \$1,000 each county
- Outreach project on calf management
- Coordinated and conducted calf management workshop.

Management Systems to Improve the Economic and Environmental Sustainability of Dairy Enterprise (PI)

- Hatch
- Member of multi-state research project NC-1119
- July 2003 – June 2004
- \$10,000
- Research project on early calf nutrition
- Mentored 2 undergraduate honor's projects.

Animal Disease Biosecurity Demonstration and Outreach Program in Vermont (PI)

- USDA-APHIS Special Cooperative Agreement
- September 2002 – September 2003
- \$87,000
- Outreach project on preventing spread of disease among and on farms
- Led project team in developing binder and website of resources, and video on biosecurity.

PUBLICATIONS

Technical publications

All of the following were subject to review by experts in the field prior to publication.

4. Calder, R. and **J. Smith**. 2010. Series of fact sheets on Johne's disease. (Written with an undergraduate pre-vet major; the fact sheets were distributed to Vermont large animal veterinarians and posted on the UVM Extension website.)
3. **Bovine Alliance on Management and Nutrition (BAMN)**. 2007. Heifer growth and economics: Target growth. 6 pp. (I served as primary author. NACAA state winner, fact sheet, 2007.)

BAMN publications are distributed to veterinarians and members of the feed industry by distribution to all members of the American Association of Bovine Practitioners and posting on the American Feed Industry Association web site. The publications are publicly available through the Animal Health Monitoring and Surveillance page of USDA APHIS: <http://www.aphis.usda.gov/vs/ceah/ncahs/nahms/dairy>.
2. **Smith, J.** 2004. Healthy Farms—Healthy Agriculture: Protecting the health of animal agriculture. An overview of dairy cattle biosecurity. VHS video. 18 min. (I produced this award-winning video with professional videographers. It is available for purchase in VHS and DVD format. NACAA national winner, videotape, 2005.)
1. **Smith, J., J. Ather, M. Murray, and L. Yandow.** 2003. Healthy Farms—Healthy Agriculture. 3-ring binder. 117 pp. (I served as overall project manager, editor, review coordinator, and proof-reader of this project. The materials were mailed to every dairy and beef farmer in Vermont in 2003. NACAA regional finalist, 2004.)

Production of the following biosecurity video and binder required significant scholarly effort. These materials were tailored for dairy and livestock producers.

Technical websites

I am a content contributor and content development leader of the following websites. The eXtension site and the Healthy Farms—Healthy Agriculture site provide peer-reviewed content.

2. eXtension EDEN agrosecurity team. 'Agrosecurity and floods.' Provides peer-reviewed content on flooding, agrosecurity, and agricultural emergency management topics for outreach professionals and the general public. (www.extension.org/disasters)
1. **Smith, J.**, and K. Parker. 2003, updated in 2010. 'Healthy Farms—Healthy Agriculture.' Provides biosecurity assessment tool and best management practices for livestock producers. (www.uvm.edu/~ascibios) (I oversaw the conversion of print materials to web pages with the technical assistance of Kim Parker. Migration to UVM Extension template and updates completed with the assistance of Krista Cheney.)

Peer-reviewed journal publications

20. Smith, R. L., Y.T. Gröhn, A. K. Pradhan, R. H. Whitlock, J. S. Van Kessel, **J. M. Smith**, D. R. Wolfgang, Y. H. Schukken. 2016. The effects of progressing and non-progressing *Mycobacterium avium* ssp. *paratuberculosis* infection on milk production in dairy cows. *Journal of Dairy Science* 99:1383-1390.
19. Lambertini, E., J. Karns, J. S. Van Kessel, H. Cao, Y. Schukken, D. Wolfgang, **J. Smith**, and A. Pradhan. Accepted, posted online 24 April 2015. Dynamics of *Escherichia coli* virulence factors in dairy herds and farm environments from a longitudinal study in the United States. *Applied and Environmental Microbiology* doi:10.1128/AEM.00465-15.
18. Kung, Jr., L. J. M. Lim, D. J. Hudson, **J. M. Smith** and R. D. Joerger. 2015. Chemical composition and nutritive value of corn silage harvested in the northeastern US affected by Hurricane Irene. *Journal of Dairy Science* 98:2055-2062.
17. **Smith, J. M.** 2014. Controlling survey response error in a mail survey of dairy farmers: a case report. *Journal of Extension* [On-line], 52(5) Article 5TOT6. Available at: <http://www.joe.org/joe/2014october/tt6.php>
16. **Smith, J. M.** and R. H. Whitlock. 2012. CaseReport: *Mycobacterium avium* subspecies *paratuberculosis* infection in three generations of beef cattle. *Bovine Practitioner* 46:32-35.
15. **Smith, J.**, L. Black, and L. Williams. 2012. Emergency exercise participation and evaluation. *Journal of Extension* [On-line], 50(3). Available at: <http://www.joe.org/joe/2012june/comm2.php>.
14. Smith, R. L., Y. H. Schukken, A. K. Pradhan, **J. M. Smith**, R. H. Whitlock, J. S. Van Kessel, D. R. Wolfgang and Y. T. Grohn. 2011. Environmental contamination with *Mycobacterium avium* subsp. *paratuberculosis* in endemically infected dairy herds. *Preventive Veterinary Medicine* 102:1-9.
13. Pradhan, A. K., R. M. Mitchell, A. J. Kramer, M. J. Zurakowski, T. L. Fyock, R. H. Whitlock, **J. M. Smith**, E. Hovingh, J. A. S. Van Kessel, J. S. Karns, and Y. H. Schukken. 2011. Molecular epidemiology of *Mycobacterium avium* subsp. *paratuberculosis* in a longitudinal study of three dairy herds. *Journal of Clinical Microbiology* 49:893-901. doi:10.1128/JCM.01107-10
12. Zanella, R., M. L. Settles, S. D. McKay, R. D. Schnabel, J. F. Taylor, R. H. Whitlock, Y. Schukken, J. S. Van Kessel, **J. M. Smith**, and H. L. Neibergs. 2011. Identification of loci associated with tolerance to Johne's disease in Holstein cattle. *Animal Genetics* 42:28-38. doi: 10.1111/j.1365-2052.2010.02076.x.

11. Smith, R. L., R. L. Strawderman, Y. H. Schukken, S. J. Wells, A. K. Pradhan, L. A. Espejo, R. H. Whitlock, J. S. Van Kessel, **J. M. Smith**, D. R. Wolfgang, and Y. T. Grohn. 2010. Effect of Johne's disease status on reproduction and culling in dairy cattle. *Journal of Dairy Science* 93:3513-3524.
10. Aly, S. S., B. L. Mangold, R. H. Whitlock, R. W. Sweeney, R. J. Anderson, J. Jiang, Y. Schukken, E. Hovingh, D. Wolfgang, J. S. Van Kessel, J. S. Karns, J. E. Lombard, **J. M. Smith**, I. A. Gardner. 2010. Correlation between Herrold's egg yolk medium culture and real-time quantitative polymerase chain reaction results for *Mycobacterium avium* subspecies *paratuberculosis* in pooled fecal and environmental samples. *Journal of Veterinary Diagnostic Investigation* 22:677-683.
9. Settles, M., R. Zanella, S. D. McKay, R. D. Schnabel, J. F. Taylor, R. H. Whitlock, Y. Schukken, J. S. Van Kessel, **J. M. Smith**, H. Neibergs. 2009. A whole genome association analysis identifies loci associated with *Mycobacterium avium* subsp. *paratuberculosis* infection status in US Holstein cattle. *Animal Genetics* 40:655-662.
8. Smith, R. L., Y. T. Grohn, A. K. Pradhan, R. H. Whitlock, J. S. Van Kessel, **J. M. Smith**, D. R. Wolfgang, and Y. H. Schukken. 2009. A longitudinal study for the impact of Johne's Disease status on milk production in individual cows. *Journal of Dairy Science* 92:2653-2661.
7. Pradhan, A., J. S. Van Kessel, J. S. Karns, D. R. Wolfgang, E. Hovingh, K. A. Nelen, **J. M. Smith**, R. H. Whitlock, T. Fyock, S. Ladely, P. J. Fedorka-Cray, and Y. H. Schukken. 2009. Dynamics of endemic infectious diseases of animal and human importance on three dairy herds in the Northeastern US. *Journal of Dairy Science* 92:1811-1825.
6. **Smith, J. M.**, R. L. Parsons, K. Van Dis, and G. N. Matiru. 2008. Love thy neighbor—but does that include a six hundred eighty-four-cow dairy operation? A survey of community perceptions. *Journal of Dairy Science* 91:1673-1685.
5. **Smith, Julia M.** 2007. Steps to bolster your dairy farm's biosecurity: an introductory video. *Journal of Extension* 45, Article 4TOT6, <http://www.joe.org/joe/2007august/tt6.shtml>.
4. Nonnecke, B. J., M. R. Foote, **J. M. Smith**, B. A. Pesch, and M. E. Van Amburgh. 2003. Composition and functional capacity of blood mononuclear leukocyte populations from neonatal calves on standard and intensified milk replacer diets. *Journal of Dairy Science* 86:3592-3604.
3. Block, S. S., **J. M. Smith**, R. A. Ehrhardt, M. C. Diaz, R. P. Rhoads, M. E. Van Amburgh, and Y. R. Boisclair. 2003. Nutritional and developmental regulation of plasma leptin in dairy cattle. *Journal of Dairy Science* 86:3206-3214.
2. **Smith, J. M.**, M. E. Van Amburgh, M. C. Díaz, M. C. Lucy, and D. E. Bauman. 2002. Effect of nutrient intake on the development of the somatotrophic axis and its responsiveness to GH in Holstein bull calves. *Journal of Animal Science* 80:1528-1537.
1. Díaz, M. C., M. E. Van Amburgh, **J. M. Smith**, J. M. Kelsey, and E. L. Hutten. 2001. Composition of growth of Holstein calves fed milk replacer from birth to 105 kilogram body weight. *Journal of Dairy Science* 84:830-842.

Peer-reviewed abstracts

I have published 20 abstracts since 2002. Student authors I supervised are marked with an asterisk.

25. Ferris, T.A., **J. M. Smith**, E. M. Richer, M. Welker, J. Stechschulte, M. A. Dunckel, and A. E. Kuschel. 2016. Breakfast on the farm, an educational farm tour improves consumer trust in animal care, food safety, and modern conventional dairy production. *Journal of Animal Science* 94(E-Suppl. 5)/*Journal of Dairy Science* 99(E-Suppl. 1):269(Abstr.).

24. **Smith, J. M.** and T. A. Ferris. 2016. Breakfast on the Farm event is an effective learning activity and improves consumer perceptions of dairy production. *Journal of Animal Science* 94(E-Suppl. 5)/*Journal of Dairy Science* 99(E-Suppl. 1):269(Abstr.).
23. **Smith, J. M.** 2012. Types and frequencies of movements onto and off of Vermont dairy farms. American Association of Bovine Practitioners, Montreal, Quebec, September 21 (Poster 13).
22. Smith, R. L., Y. H Schukken, A. K Pradhan, **J. M. Smith**, R. H Whitlock, J. S. Van Kessel, D. R. Wolfgang, and Y. T. Gröhn. 2011. Environmental contamination with *Mycobacterium avium* ssp. *paratuberculosis* in endemically infected dairy herds. *Journal of Animal Science* 89(E-Suppl. 1)/*Journal of Dairy Science* 94(E-Suppl. 1):221(Abstr.).
21. Neibergs, H. L., Y. Schukken, R. H. Whitlock, A. Pradhan, **J. M. Smith**, and E. Hovingh. 2010. Evaluation of *Mycobacterium avium* spp. *paratuberculosis* strains and a locus associated with tissue infection. *Journal of Animal Science* 88(E-Suppl. 2)/*Journal of Dairy Science* 93(E-Suppl.1)/*Poultry Science* 89(E-Suppl. 1):34(Abstr.).
20. S. S. Aly, B. L. Mangold, R. H. Whitlock, R. W. Sweeney, R. J. Anderson, J. Jiang, Y. H. Shukken [sic], E. P. Hovingh, D. R. Wolfgang, J. S. Van Kessel, J. S. Karns, J. E. Lombard, **J. M. Smith**, and I. A. Gardner. 2010. Correlation between culture and quantitative real-time PCR results for *Mycobacterium avium* subspecies *paratuberculosis* in pooled fecal and environmental samples. *Journal of Animal Science* 88(E-Suppl. 2)/*Journal of Dairy Science* 93(E-Suppl.1)/*Poultry Science* 89(E-Suppl. 1):257(Abstr.).
19. Y. H. Schukken, A. K. Pradhan, R. M. Mitchell, Z. Lu, R. Smith, Y. T. Gröhn, R. H. Whitlock, E. Hovingh, **J. Smith**, J. A. Van Kessel [sic], J. Karns, and D. Wolfgang. 2010. Importance of latent infected animals in MAP infection dynamics in dairy herd. *Journal of Animal Science* 88(E-Suppl. 2)/*Journal of Dairy Science* 93(E-Suppl.1)/*Poultry Science* 89(E-Suppl. 1):258(Abstr.).
18. Pradhan, A. K., R. M. Mitchell, A. J. Kramer, J. Dieguez, R. H. Whitlock, **J. M. Smith**, E. Hovingh, J. S. Van Kessel, J. S. Karns, and Y. H. Schukken. 2010. Molecular epidemiology of *Mycobacterium avium* ssp. *paratuberculosis* in three dairy herds in the northeastern United States. *Journal of Animal Science* 88(E-Suppl. 2)/*Journal of Dairy Science* 93(E-Suppl.1)/*Poultry Science* 89(E-Suppl. 1):259(Abstr.).
17. Zanella, R., M. Settles, T. Fyock, R. Whitlock, Y. Schukken, J. Van Kessel, J. Karns, E. Hovingh, **J. Smith**, C. Van Tassel, C. Gaskins, and H. Neibergs. 2008. Heritability of genetic tolerance to Johne's disease. *Journal of Animal Science* 86(E-Suppl. 2)/*Journal of Dairy Science* 91(E-Suppl. 1): 10(Abstr.).
16. Settles, M., R. Zanella, S. McKay, R. Schnabel, J. Taylor, T. Fyock, R. Whitlock, Y. Schukken, J. Van Kessel, J. Karns, E. Hovingh, **J. M. Smith**, H. Neibergs. 2008. Whole genome association study of Johne's disease in cattle. 3rd International Symposium on Animal Functional Genomics, Edinburgh, UK, April 7-9, 2008.
15. *Patlola, J. J. R., and **J. M. Smith**. 2007. Immune responses of dairy calves vaccinated at 2 versus 6 weeks of age. *Journal of Animal Science* 85/*Journal of Dairy Science* 90/*Poultry Science* 86(Suppl. 1): 53(Abstr.).
14. Whitlock, R. H., Y. Schukken, **J. Smith**, J. Van Kessel, E. Hovingh, J. Karns, D. Wolfgang, T. Johnson, V. Olson, and T. Fyock. 2006. Characteristics of *Mycobacterium paratuberculosis* super-shedders (SS) in three northeast USA, Regional Dairy Quality management Alliance (RDQMA), dairy herds. P. 110, Proceedings of the American Association of Veterinary Laboratory Diagnosticians, October 2006, Minneapolis, MN.
13. *Berthiaume, D., and **J. M. Smith**. 2006. Accelerated calf growth: when does it make sense? *Journal of Animal Science* 84/*Journal of Dairy Science* 89(Suppl. 1): 106(Abstr.).
12. Hovingh, E., R. H. Whitlock, R. W. Sweeney, T. Fyock, D. R. Wolfgang, **J. Smith**, Y. H. Schukken, and J. S. Van Kessel. 2006. Identification and implications of MAP

- supershedders. *Journal of Animal Science* 84/*Journal of Dairy Science* 89(Suppl. 1): 134(Abstr.).
11. *Knauer, W., and **J. M. Smith**. 2006. The effects of lactoferrin on the appearance of immunoglobulin in the peripheral blood of Holstein calves. *Journal of Animal Science* 84/*Journal of Dairy Science* 89(Suppl. 1): 161(Abstr.).
 10. **Smith, J. M.** 2004. *Healthy Farms—Healthy Agriculture: a new approach to biosecurity education*. *Journal of Animal Science* 82/*Journal of Dairy Science* 87/*Journal of Poultry Science* 83(Suppl. 1): 290(Abstr.).
 9. **Smith, J. M.**, M. E. Van Amburgh. 2003. Effect of feeding fatty acids to prepubertal heifers on first lactation milk production. *Journal of Animal Science* 81/*Journal of Dairy Science* 86(Suppl. 1):22(Abstr.).
 8. Block, S. S., **J. M. Smith**, R. A. Ehrhardt, M. C. Diaz, R. P. Rhoads, M. E. Van Amburgh, and Y. R. Boisclair. 2003. Changes in plasma leptin from birth to puberty in dairy cattle. *Journal of Animal Science* 81/*Journal of Dairy Science* 86(Suppl. 1):308(Abstr.).
 7. **Smith, J. M.**, S. S. Block, D. E. Bauman, and M. E. Van Amburgh. 2002. Effect of feeding a calcium salt of conjugated linoleic acid (CLA) prior to puberty on body composition and mammary development in Holstein heifers. *Journal of Animal Science* 80/*Journal of Dairy Science* 85(Suppl. 1):338(Abstr.).
 6. **Smith, J. M.**, S. S. Block, N. L. Dykes, D. E. Bauman, and M. E. Van Amburgh. 2002. Comparison between measurement of parenchymal development of heifer mammary glands by computed tomography and traditional dissection techniques. *Journal of Animal Science* 80/*Journal of Dairy Science* 85(Suppl. 1):337(Abstr.).
 5. Van Amburgh, M., **J. Smith**, and J. Tikofsky. 2001. Composition and regulation of targeted growth of the neonate: implications for feeding systems and post-weaning management. Abstract presented at the Midwestern Section ASAS and Midwest Branch ADSA 2001 Meeting, Des Moines, IA, March 19-21, (Abstr. 77).
 4. **Smith, J. M.**, B. J. Nonnecke, M. E. Van Amburgh, B. A. Pesch, and J. A. Harp. 2001. Effects of dietary conjugated linoleic acid (CLA) on the composition and function of peripheral blood mononuclear leukocyte populations in heifer calves. *Journal of Animal Science* 79/*Journal of Dairy Science* 84(Suppl. 1):436(Abstr.).
 3. Bork, A.L., **J. M. Smith**, M. R. Foote, and M. E. Van Amburgh. 2000. The somatotrophic axis of young calves can be modulated by nutrition and bST. *Journal of Animal Science* 78/*Journal of Dairy Science* 83(Suppl. 1):143(Abstr.).
 2. **Smith, J. M.**, M. E. Van Amburgh, A. L. Bork, and M.R. Foote. 2000. Response to repeated bST challenges around weaning in Holstein heifer and bull calves. *Journal of Animal Science* 78/*Journal of Dairy Science* 83(Suppl. 1):144(Abstr.).
 1. Nonnecke, B. J., M. E. Van Amburgh, M. R. Foote, **J. M. Smith**, and T. H. Elsasser. 2000. Effects of dietary energy and protein on the immunological performance of milk replacer-fed Holstein bull calves. *Journal of Animal Science* 78/*Journal of Dairy Science* 83(Suppl. 1):135(Abstr.).

Conference proceedings

I have authored or co-authored 28 conference proceedings since 2002. I presented abstracts where marked by an asterisk.

33. Kung, Jr., L., J. M. Lim, D. J. Hudson, **J. M. Smith**, H. Darby, L. E. Chase, and R. D. Joerger. 2012. Flooded corn silage study results – a preliminary report. Proceedings of the Cornell Nutrition Conference. Cornell University. October 16-18, Ithaca, NY.
32. Smith, R. L., Y. H. Schukken, A. K. Pradhan, **J. M. Smith**, R. H. Whitlock, J. S. Van Kessel, D. R. Wolfgang, and Y. T. Gröhn. 2011. Environmental contamination with *Mycobacterium avium*

- ssp. paratuberculosis* in endemically infected dairy herds. Johne's Disease Integrated Program 7th Annual Conference, July 10-11, New Orleans, LA.
31. ***Smith, J.** 2010. Prepare to survive a bio-disaster. Proceedings of the Vermont Dairy Producers' Conference, February 25, Burlington, VT.
 30. **Smith, J. M.**, R. Grover, and J. Sullivan. 2010. Critical links supporting Vermont's bulk milk transportation: a novel application of the Network Robustness Index. Proceedings of the Transportation Research Board 89th Annual Meeting, January 10 – 14, Washington, D.C.
 29. S. S. Aly, B. L. Mangold, R. H. Whitlock, R. W. Sweeney, R. J. Anderson, J. Jiang, Y. H. Shukken [sic], E. P. Hovingh, D. R. Wolfgang, J. S. Van Kessel, J. S. Karns, J. E. Lombard, **J. M. Smith**, and I. A. Gardner. 2010. Correlation between culture and quantitative real-time PCR results for *Mycobacterium avium* subspecies *paratuberculosis* in pooled fecal and environmental samples. Proceedings of the Johnes' Disease Integrated Program 6th Annual Conference, July 11-12, Denver, CO.
 28. Y. H. Schukken, A. K. Pradhan, R. M. Mitchell, Z. Lu, R. Smith, Y. T. Gröhn, R. H. Whitlock, E. Hovingh, **J. Smith**, J. A. Van Kessel [sic], J. Karns, and D. Wolfgang. 2010. Importance of latent infected animals in MAP infection dynamics in dairy herd. Proceedings of the Johnes' Disease Integrated Program 6th Annual Conference, July 11-12, Denver, CO.
 27. Pradhan, A. K., R. M. Mitchell, A. J. Kramer, J. Dieguez, R. H. Whitlock, J. M. Smith, E. Hovingh, J. S. Van Kessel, J. S. Karns, and Y. H. Schukken. 2010. Molecular epidemiology of *Mycobacterium avium* subspecies *paratuberculosis* in three dairy herds in the northeastern United States. Proceedings of the Johnes' Disease Integrated Program 6th Annual Conference, July 11-12, Denver, CO.
 26. Neibergs, H. L., Y. Schukken, R. H. Whitlock, A. Pradhan, **J. M. Smith**, and E. Hovingh. 2010. Evaluation of *Mycobacterium avium* subsp. *paratuberculosis* strains and a locus associated with tissue infection. Proceedings of the Johnes' Disease Integrated Program 6th Annual Conference, July 11-12, Denver, CO.
 25. Pradhan, A. K., A. J. Kramer, R. M. Mitchell, R. H. Whitlock, **J. M. Smith**, E. Hovingh, J. S. Van Kessel, J. S. Karns, and Y. H. Schukken. 2009. Multi-locus short sequence repeat analysis of *Mycobacterium avium* subsp. *paratuberculosis* isolates from dairy herds in northeastern United States of a longitudinal study indicates low shedders are truly infected (Abstr.) Proceedings of the 10th International Colloquium on Paratuberculosis, August 9 – 14, Minneapolis, Minnesota.
 24. Whitlock, R., T. Fyock, Y. Schukken, J. Van Kessel, J. Karns, E. Hovingh, and **J. Smith**. 2009. Passive MAP fecal shedding in dairy cattle (Abstr.). Proceedings of the 10th International Colloquium on Paratuberculosis, August 9 – 14, Minneapolis, Minnesota.
 23. Whitlock, R., R. W. Sweeney, **J. Smith**, J. Van Kessel, E. Hovingh, J. Karns, D. Wolfgang, T. Fyock, S. McAdams, and Y. Schukken. 2009. Environment of the adult cow. Proceedings of the 2nd New Horizons in Johne's Disease Control Workshop, August 9 – 10, Minneapolis, Minnesota.
 22. Whitlock R. H., I. A. Gardner, Y. Schukken, B. L. Mangold, R. W. Sweeney, J. Van Kessel, J. Karns, **J. Smith**, E. Hovingh, D. Wolfgang. 2009. Johne's disease supershedders, passive shedders & adult infection. Proceedings of the American College of Veterinary Internal Medicine Forum & Canadian Veterinary Medical Association Convention. June 3 – 6, Montreal, Canada, pp 271-273.
 21. Whitlock R. H., R. W. Sweeney, **J. Smith**, J. Van Kessel, E. Hovingh, J. Karns, D. Wolfgang, T. Fyock, S. McAdams, Y. Schukken. 2008. Where are we with diagnostic testing in Johne's disease and effect of the "Super-Shedder" on herd infection? Proceedings of the New York State Veterinary Conference, October 2-5, Ithaca, New York, pp 1-5.
 20. Whitlock, R. H., Y. Schukken, J. Smith, J. Van Kessel, E. Hoving [sic], J. Karns, D. Wolfgang, T. Johnson, R. Sweeney, S. McAdams, and T. Fyock. 2008. Cattle shedding MAP: a new

- paradigm; passive shedding or active shedding? Proceedings of the New Horizons In Johne's Disease Control, April 18, Lansing, MI.
19. Whitlock, R., Y. Schukken, J. Smith, J. Van Kessel, E. Hovingh, J. Karns, D. Wolfgang, T. Johnson, V. Olson, T. Fyock. 2007. Characteristics of *Mycobacterium paratuberculosis* super shedders (SS). Johne's Disease Integrated Program 3rd Annual Conference, January 29-31, College Station, TX.
 18. Sweeney, R. W., R. H. Whitlock, B. L. Mangold, S. McAdams, T. Fyock, Y. Schukken, **J. Smith**, J. Van Kessel, E. Hovingh, J. Karns, D. Wolfgang, and T. Johnson. 2007. Real-time PCR testing of pooled fecal samples: comparison to HEYM culture. Proceedings of 9th International Colloquium on Paratuberculosis, October 29 – November 2, Tsukuba, Japan.
 17. Fyock, T., R. H. Whitlock, Y. Schukken, J. Van Kessel, J. Karns, E. Hovingh, and **J. Smith**. 2007. *Mycobacterium avium* subsp. *paratuberculosis* (MAP) infection in cull cows from Johne's herds. Proceedings of 9th International Colloquium on Paratuberculosis, October 29 – November 2, Tsukuba, Japan.
 16. Whitlock, R. H., I. A. Gardner, B. L. Mangold, **J. Smith**, R. W. Sweeney, Y. Schukken, J. Van Kessel, E. Hovingh, J. Karns, D. Wolfgang, and T. Fyock. 2006. Johne's disease: *Mycobacterium paratuberculosis* super-shedders: Detection and contribution to passive shedding (false positive fecal cultures). Proceedings of the American Association of Bovine Practitioners, September 2006, St. Paul, MN.
 15. ***Smith, J.** 2006. Colostrum—Don't Be Born Without It! Sustainable Livestock Conference, March 3, Fairlee, VT.
 14. Whitlock, R. H., R. W. Sweeney, T. Fyock, **J. Smith**, Y. Schukken, E. Hovingh, and J. Van Kessel. 2006. MAP super-shedders: Another factor in the control of Johne's disease. Pp. 17-18. Proceedings of the Second Annual Johne's Disease Integrated Program conference, January 26 – 19, University of California, Davis, CA.
 13. ***Smith, J.** 2005. Challenging Concepts in Calf and Heifer Nutrition. Dairy Nutrition 2005, August 18, Miner Institute, Chazy, NY.
 12. Fyock, T.L., R.H. Whitlock, **J. Smith**, E. Hovingh, and Y. Schukken. 2005. Whole herd fecal pools compared to composite environmental fecal samples. Page 89. 8th International Colloquium on Paratuberculosis. August 14-18, 2005, The Royal Veterinary & Agricultural University, Copenhagen, Denmark.
 11. Parsons, R., G. Matiru, and **J. Smith**. 2005. "Love thy neighbor..." but does this include a 500 cow dairy farm??? In Proceedings of the Northeast Agricultural and Resource Economics Association Meeting, June 12-14, Annapolis, MD.
 10. ***Smith, J.** 2005. Biosecurity assessments to biosecurity plans: Safeguarding your livestock operation. In Proceedings of Dairy Calves and Heifers: Integrating Biology and Management, January 25-27, Syracuse, NY, NRAES-175, pp. 306-309.
 9. ***Smith, J.** 2004. Liquid Feeding Programs for Optimal Calf Health. In 2004 Proceedings of the Ruminant Health-Nutrition Conference/New England Dairy Feed Conference, April 1, West Lebanon, NH.
 8. ***Smith, J.** 2003. Challenging Concepts in Calf and Heifer Nutrition. Dairy Nutrition 2003, August 14, Miner Institute, Chazy, NY.
 7. ***Smith, J.** 2003. Dead Animal Composting: A Viable Method of Disposal. Seventh Annual Vermont Grazing Conference: Innovations in Grass Farming, January 25, Randolph Center, VT.
 6. ***Smith, J.** 2002. Preparing for a successful first transition: Understanding the biology of the calf. In: Proceedings 2002 Vermont Large Farm Dairy Conference, Burlington, VT, pp. 39-48.

5. Van Amburgh, Mike, Jeff Tikofsky, and **Julie Smith**. 2001. Requirements for and regulation of growth of Holstein calves—Implications for decreasing age at first calving. In: Proceedings 2001 Tri-State Dairy Nutrition Conference, April 17-18, Fort Wayne, IN.
4. Van Amburgh, Mike, Jeff Tikofsky, and **Julie Smith**. 2001. Requirements for and regulation of growth of Holstein calves. In: Proceedings 2001 Ruminant Health-Nutrition Conference, January 25, Syracuse, NY, pp. 1-10.
3. Van Amburgh, Mike, M. Carolina Diaz, and **Julie Smith**. 1999. Nutrition and management of the milk fed calf. In: 1999 Winter Dairy Management Schools, Animal Science Mimeograph Series No. 201, New York State College of Agriculture and Life Sciences, Cornell University, Ithaca, NY, pp. 54-66.
2. ***Smith, J. M.**, M. C. Diaz, M. E. Van Amburgh, D.E. Bauman, and M. C. Lucy. 1998. Ontogeny of the somatotrophic axis in milk-fed bull calves between birth and 105 kg. In: Proceedings 1998 Cornell Nutrition Conference for Feed Manufacturers, Rochester, NY, pp. 119-129.
1. Diaz, M. C., **J. M. Smith**, and M. E. Van Amburgh. 1998. Nutrient requirements and management of the milk fed calf. In: Proceedings 1998 Cornell Nutrition Conference for Feed Manufacturers, Rochester, NY, pp.130-141.

Poster presentations

I have co-authored 16 posters, including 10 as first author, since 2002.

16. Kung, L., J. Lim, D.J. Hudson*, D., **J. Smith**, R.D. Joerger. 2014. Chemical composition and nutritive value of corn silage affected by Hurricane Irene. American Society of Agronomy. November 2 – 5, Long Beach, CA.
15. **Smith, J. M.**, R. Parsons*, and E. Rowe. 2013. Costs and challenges of developing and implementing a community-wide biosecurity plan. NIFA Animal Health and Well-Being PD Workshop, October 7 – 8, College Park, MD.
14. **Smith, J. M.** 2012. Types and frequencies of movements onto and off of Vermont dairy farms. American Association of Bovine Practitioners, September 21, Montreal, Quebec (Poster 13).
13. **Smith, J. M.** 2011. Animal disease disaster dilemma: Engaging stakeholders in preparedness. NIFA Animal Systems Awardee Meeting, April 19 – 21, Arlington, VA.
12. **Smith, J. M.** 2010. Animal disease disaster dilemma: Engaging stakeholders in preparedness. Extension Disaster Education Network Annual Meeting, November 2 – 4, Lexington, KY.
11. **Smith, J. M.**, R. Grover, and J. Sullivan. 2010. Critical links supporting Vermont's bulk milk transportation: a novel application of the Network Robustness Index. Transportation Research Center Research Expo, May 12, Burlington, VT.
10. **Smith, J. M.**, R. Grover, and J. Sullivan. 2010. Critical links supporting Vermont's bulk milk transportation: a novel application of the Network Robustness Index. Transportation Research Board 89th Annual Meeting, January 10 – 14, Washington, DC.
9. **Smith, J. M.**, R. Grover, and J. Sullivan. 2009. Critical links supporting Vermont's bulk milk transportation: a novel application of the Network Robustness Index. Association of Pacific Coast Geographers. September 30 – October 3, San Diego, CA.
8. Whitlock, R., T. Fyock, Y. Schukken, J. Van Kessel, J. Karns, E. Hovingh, and **J. Smith**. 2009. Mycobacterium avium subsp. paratuberculosis (MAP) infection in cull dairy cows (Abstr.) Proceedings of the 10th International Colloquium on Paratuberculosis, August 9 – 14, Minneapolis, MN.
7. Whitlock, R., R. W. Sweeney, **J. Smith**, J. Van Kessel, E. Hovingh, J. Karns, D. Wolfgang, T. Johnson, T. Fyock, Y. Schukken, and I. Gardner. 2007. RT-PCR and serial dilution of fecal samples to detect MAP supershedders (SS), Johne's Disease Integrated Program 3rd Annual Conference, January 29-31, College Station, TX.

6. **Smith, J. M.** 2006. Celebrating a Century—1906 to 2006—of the University of Vermont Department of Animal Science. *Journal of Animal Science* 84/*Journal of Dairy Science* 89(Suppl. 1): 468(Abstr.).
5. Whitlock, R.H., R.W. Sweeney, T.L Fyock, and **J. Smith.** 2005. MAP super-shedders: Another factor in the control of Johne's disease. Book of Abstracts and Scientific Program; Poster Presentation; Page 42; 8th International Colloquium on Paratuberculosis. August 14-18, The Royal Veterinary & Agricultural University, Copenhagen, Denmark.
4. **Smith, J. M.** 2005. Now on Video: Healthy Farms—Healthy Agriculture. National Association of County Agricultural Agents Annual Meeting and Professional Improvement Conference, July18-21, Buffalo, NY.
3. **Smith, J. M.,** and *E. M. Brunst. 2005. Effect of Handling on Microbiological Quality of Colostrum. National Association of County Agricultural Agents Annual Meeting and Professional Improvement Conference, July18-21, Buffalo, NY.
2. Smith, R. L., and **J. M. Smith.** 2004. Natural Rendering. 3-section poster display exhibited at 2005 New England Dairy and Beef Expo and Natural Resource Conservation Service (NRCS) offices across Vermont 2004 – 2007.
1. **Smith, J. M.** 2004. Healthy Farms—Healthy Agriculture: A Biosecurity Blitz. National Association of County Agricultural Agents Annual Meeting and Professional Improvement Conference, July 11-14, Orlando, FL.

Newsletters/Blogs

- **On-Farm Food Safety Briefs.** 2011 – 2012. Monthly short pieces on farm management that relates to milk and meat safety. St. Albans Cooperative Newsletter.
- **Dr. Julie Smith's Dairy Blog.** 2010 – present. Blog posts primarily related to agricultural emergency preparedness topics. (<https://blog.uvm.edu/jmsmith/>)
- **Green Mountain Dairy Air.** 2002 – 2009. A 2- to 4-page newsletter published 4 to 6 times per year and mailed to Addison County dairy discussion group and electronically distributed to dairy faculty, nutritionists, and extension educators.

Television features

15. **Smith, J.,** and C. Stanley. 2016. Gearing Up for the 2016 Breakfast on the Farm Events. Across the Fence, 6/15/2016, <http://www.uvm.edu/extension/afence/?m=20160615>
14. **Smith, J.,** and S. Vander Wey. 2016. Vermont Breakfast on the Farm. Positively Vermont, 6/4/2016.
13. **Smith, J.,** R. Gilker, and D. Höglund. 2015. Dairy Stockmanship, Across the Fence, 1/29/2015, <http://www.uvm.edu/extension/afence/?m=20150129>
12. **Smith, J.** and M. Cosentino. 2014. UVM Extension and UVM Undergraduate Research: A Partnership in Education, Across the Fence, 9/30/2014, <http://www.uvm.edu/extension/afence/?m=201409>
11. **Smith, J.** and T. Loos. 2013. Advocating for Agriculture: The Vermont Dairy Industry Association and the Vermont Feed Dealers & Manufacturer's Association (Part Two), Across the Fence, 10/1/2013, <http://www.uvm.edu/extension/afence/?m=201310>
10. **Smith, J.** and M. Payn-Knoper. 2013. Advocating for Agriculture: The Vermont Dairy Industry Association and the Vermont Feed Dealers & Manufacturer's Association (Part One), Across the Fence, 9/30/2013, <http://www.uvm.edu/extension/afence/?m=201309>
9. **Smith, J.** and R. Schell. 2012. Farm Safety and Health (Part I): Planning and Preparedness. Across the Fence, 9/19/2012, http://www.uvm.edu/extension/atfblog/?page_id=22
8. **Smith, J.** 2012. Developing and Implementing a Community-wide Biosecurity Plan, Across the Fence, 5/22/2012, <http://www.uvm.edu/extension/atfblog/?m=201205>
7. Rowe, S. E. and **J. Smith.** 2011. Preparing Our Communities for an Animal Disease Emergency, Across the Fence, 8/9/2011.

6. Curler, A. and **J. Smith**. 2010. Dairy Farm of the Year, Across the Fence, 8/30/2010, http://www.uvm.edu/extension/?Page=acrossfence_episodes.html
5. **Smith, J.** 2010. Local Emergency Plans: Expect the Best, Prepare for the Worst, Across the Fence, 7/13/10, http://www.uvm.edu/extension/?Page=acrossfence_episodes.html
4. **Smith, J.** 2009. Security and disaster preparedness on and off Vermont farms, Across the Fence, 3/9/09.
3. **Smith, J.** 2007. Research on ag testing, Across the Fence, 9/4/07.
2. **Smith, J.** 2007. Vermont's animal health, Across the Fence, 8/28/07.
1. **Smith, J.** 2003. On the farm: biosecurity, Across the Fence, 8/21/03.

Media interviews

11. Cahill, Dale and Darcy. Serving breakfast on a dairy farm to hundreds takes many hands. Farming (online). July 11, 2016. <http://www.farmingmagazine.com/bits-and-pieces/shows/breakfast-on-neatocht-farm/>
10. Cutts, Emily. Benefit planned in farmer's honor. Barre Montpelier Times Argus Online. April 17, 2016. <http://www.timesargus.com/apps/pbcs.dll/article?AID=/20160417/NEWS03/160419659?template=printart>
9. Brandt, Stacey. Seconds of summer: First annual breakfast on the farm. August 24, 2015. <http://www.sevendaysvt.com/BiteClub/archives/2015/08/24/seconds-of-summer-first-annual-breakfast-on-the-farm>
8. Henke, Jodi. Keep your boots clean. Living the Country Life. November 24, 2014. <http://www.livingthecountrylife.com/country-life/keep-your-boots-clean/>
7. Weinstock, David and Curt Harler. Quality assurance: How to beat mastitis. Farming Magazine. July 2014.
6. Senesac, Jeff and Julie Smith interview segment by Judy Simpson. WCAX. 2011. Vt Dept of Health, UVM Providing Farmers Protection Equipment, 9/26/11.
5. Suozzo, Andrea. Dairy forum deals with infectious disease. Addison County Independent. September 22, 2011.
4. Suozzo, Andrea. Local farms prepped for emergencies. Addison County Independent. July 4, 2011.
3. Weiss-Tisman, Howard. Got change? National dairy report sent to USDA for approval. Brattleboro Reformer. March 8, 2011.
2. Morning Show. 2010. WVMT AM620. 6/24/10.
1. Vermont Edition. 2010. VPR. 5/25/10. http://www.vpr.net/flash/audio_player/audio_player.php?id=31077

Popular press

16. **Smith, J.** 2016. How to improve animal welfare in the milking parlor. Progressive Dairyman. October 1, 2016.
15. **Smith, J.** and T. Ferris. 2016. Breakfast on the Farm event changes consumers' perceptions. Dairy Business & Holstein World. October 2016.
14. **Smith, J.** 2016. Milk residues from a veterinarian's perspective. Progressive Dairyman. April 19, 2016.
13. **Smith, J.** 2014. FMD symposium drives action steps. Drovers Cattle Network. June 17, 2014.
12. **Smith, J.** 2013. An invisible health threat is lurking. Hhoard's Dairyman. October 25, 2013.

11. **Smith, J.** 2007. Think like a pioneer to prepare for rural emergencies: Part II. Have an emergency? Who is going to respond in your neighborhood? Agriview Vol. 71, No. 17.
 10. **Smith, J.** 2007. Think like a pioneer to prepare for rural emergencies: Part I. Emergency preparedness in a rural setting requires additional planning. Agriview Vol. 71, No. 15.
 9. **Smith, J.** June 2007. For healthier calves, shave stress. Northeast Dairy Business, Vol. 9, No. 6 pp. 26-27.
 8. **Smith, J.** June 2007. How to improve your vaccination program. Northeast Dairy Business, Vol. 9, No. 6, pp. 28-29.
 7. **Smith, J.** 2005. Calf and heifer management: the cornerstone of a successful dairy business. Agriview Vol. 69, No. 6. (Reprinted in New Hampshire Weekly Market Bulletin, Vol. 84, No. 7, April 20, 2005.)
 6. **Smith, J.** 2004. Coexisting with wildlife: Is it something to crow or complain about? "Ask the Vet" column in Vermont Beef News, Vol. 5, No. 4.
 5. **Smith, J.** 2004. Growth Hormone Explained. "My Turn" Guest Opinion Column in Burlington Free Press, January 30, 2004.
 4. **Smith, J.** 2004. Dead Animal Composting: Part III. Guest Editorial in Vermont Beef News, Vol. 5, No. 1.
 3. **Smith, J.** 2003. Dead Animal Composting: A Viable Method of Disposal. Part II. Guest Editorial in Vermont Beef News, Vol. 4, No. 6.
 2. **Smith, J.** 2003. Survey of Agriculture and Land Use in Charlotte: Preliminary Results. Commentary in Charlotte News, October 23, 2003.
 1. **Smith, J.** 2003. Dead Animal Composting: A Viable Method of Disposal. Part I (of 3). Guest Editorial in Vermont Beef News, Vol. 4, No. 5.
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PRESENTATIONS

Professional

36. **Smith, J.** and C. Emanuel. Animals and Animal Agriculture in Radiological Emergencies. Extension Disaster Education Network webinar. June 14, 2016, <https://learn.extension.org/events/2446>
35. **Smith, J.** Animal Welfare in the Milking Parlor. Cow Comfort, Animal Welfare and the Public. Northern New York Cornell Cooperative Extension workshops. January 12, 2016, Burrville, NY (Watertown) January 13, 2016, Canton, NY January 14, 2016, Chazy, NY (Miner Institute)
34. **Smith, J.** Dollars and Sense of Calf Raising: Leveraging Opportunities. New England Cooperative Extension event coordinated by U Mass Amherst Cooperative Extension, Cost Reducing Strategies for Dairy and Livestock Operations, March 18, 2014, S. Deerfield, MA.
- 29 – 33. **Smith, J.** Dollars and Sense of Calf Raising: Exploring the Options. UVM Extension Agronomy Plus workshop series. February 6, 2014, St. Johnsbury; February 7, 2014, Randolph; February 11, 2014, Morrisville; February 13, 2014, Newport; March 14, 2014, Springfield.

28. **Smith, J.**, Waters, K. Communication Before, During and After Disaster: How Key Message Development and Audience Identification Strengthen Extension Capabilities. Extension Disaster Education Network Annual Meeting, October 10, 2013, Madison, WI.
27. **Smith, J.** Message Maps Before, During and After Disaster. GALAXY IV, September 18, 2013, Pittsburgh, PA.
26. **Smith, J.** Vermont's Dairy Farm Contact Recall Challenge. American Association of Extension Veterinarians Applied Animal and Public Health Symposium, October 20, 2012, Greensboro, NC.
25. **Smith, J.** Incorporating agricultural disasters into all hazards planning. Town Officers' Education Conferences. April 4, 2012, Burlington, VT.
24. **Smith, J.** and S. E. Rowe. Engaging Stakeholders in Animal Disease Disaster Preparedness. Extension Disaster Education Network Annual Meeting, October 13, 2011, Portland, OR.
23. **Smith, J.** An Overview of Modern Livestock Production: Trends and Vulnerabilities. August 30, 2011, Agricultural lecture series, Ilsley Public Library. Middlebury, VT.
22. **Smith, J.** Milk Flows in the New England Milkshed. Advisory meeting of AFRI project. June 10, 2011, Middlebury, VT.
21. **Smith, J.** Risky Networks and Network Solutions. Advisory meeting of AFRI project. June 10, 2011, Middlebury, VT.
20. **Smith, J.** Risk Communication. Advisory meeting of AFRI project. December 10, 2010, Middlebury, VT.
19. **Smith, J.** Introducing a survey on animal movements and farm contacts. St. Albans Cooperative Annual Meeting, February 13, 2010, St. Albans, VT.
- 17-18. **Smith, J.** Introduction to continuity of business. Agri-Mark member information meeting. November 23, 2009, Hyde Park, VT; November 24, 2009, Middlebury, VT.
- 14-16. **Smith, J.** Introduction to continuity of business. St. Albans Cooperative member information meeting. (mid-day) October 15, 2009, Irasburg, VT; (evening) October 15, 2009, Sheldon, VT; October 29, 2009, Middlebury, VT.
- 11-13. **Smith, J.** Incorporating ag bio-disaster into all hazards planning. Town Officers' Education Conferences. April 9, 2009, Lyndonville, VT; April 28, 2009, Fairlee, VT; May 6, 2009, Rutland, VT.
- 9-10. **Smith, J.** Creating a resource inventory. Town Officers' Education Conferences. April 9, 2009, Lyndonville, VT; April 28, 2009, Fairlee, VT.
8. **Smith, J.** Security Alerts and Why We in Agriculture Should Care. National Association of County Agricultural Agents, July 17, 2007, Grand Rapids, MI.
7. **Smith, J.** Stacking the Deck in Favor of Survival: An Animal Emergency Primer. Mid-Atlantic Consortium Dairy Extension In-Service Conference, May 31, 2007, Wilkes-Barre, PA.
6. **Smith, J.**, and S. Comstock. Animal Emergency Preparedness workshop. New England Extension In-Service, October 26-27, 2006, Northwood, NH. (Co-led 1-day training and presented 3 separate segments.)
5. **Smith, J.** Biosecurity Means Healthy Farms, Healthy Agriculture, and Healthy Tourism. National Extension Tourism conference, September 11, 2006, Burlington, VT.

4. **Smith, J.**, S. Comstock, and K. Rood. Agrosecurity, Homeland Security, Tourism Security: Preparing the Agricultural and Non-agricultural Sectors for Bioterrorism or Other Emergencies Impacting Agriculture (panel presentation). National Extension Tourism conference, September 12, 2006, Burlington, VT.
3. **Smith, J. M.** Identification of a Subclinical Johne's Super-Shedder Cow. Applied Animal and Public Health Research and Extension Symposium at the United States Animal Health Association/American Association of Veterinary Laboratory Diagnosticians (USAHA/AAVLD) Annual Meeting and Conference, November 5, 2005, Hershey, PA.
2. Whitlock, R.H., **J. Smith**, Y. Schukken, E. Hovingh, R.W. Sweeney, B.A. Askim, and T.L. Fyock. Super-shedders, environmental manure samples and pooling. Regional Dairy Quality Management Alliance. Presented at National Johne's Working Group Annual Meeting, November 4, 2005, Hershey, PA.
1. **Smith, J.** Healthy Farms—Healthy Agriculture: A producer-focused approach to biosecurity education, American Association of Extension Veterinarians Annual Meeting, October 23, 2004, Greensboro, NC.

Invited

47. **Smith, J.** Milk residues from a veterinarian's perspective. Dairy Practices Council. November 5, 2015, Burlington, VT.
46. **Smith, J.** The complexity of saving your bacon: the policy and human behavioral challenges of protecting food animal health. Research Summaries Session, US Animal Health Association. October 26, 2015, Providence, RI.
45. **Smith, J.** Don't Track It (Back): Tips for Maintaining Biosecurity. Vermont Natural Resources Conservation Services Technical Training, April 21, 2015. Richmond, VT.
44. **Smith, J.** Mycobacterial Diseases of Animals 3rd Annual Conference Plenary Session, Extension/Outreach/Human Disease. October 18, 2014, Kansas City, MO.
43. **Smith, J.** FMD Symposium Overview. DMI FMD Leadership Webinar. September 5, 2013, via webinar.
42. **Smith, J.**, R. L. Parsons, and S. E. Rowe. AFRI Biosecurity Project Update. Agri-Mark Region 8 Meeting. December 6, 2012, Middlebury, VT.
41. **Smith, J.**, R. L. Parsons, and S.E. Rowe. Costs and Challenges Associated with Developing and Implementing a Community-Wide Biosecurity Project. Agriculture and Food Research Initiative Project Director Meeting. December 1, 2012, Chicago, IL.
40. **Smith, J.** Agricultural Safety in Radiological and Nuclear Emergencies. New England Radiological Health Conference. October 24, 2014, Burlington, VT.
39. **Smith, J.** Vermont Dairy Sustainability: Challenges and Opportunities. Vermont Dairy Industry Association Conference, September 19, 2012, Burlington, VT.
38. **Smith, J.** Milk Truck Cleaning and Disinfection Drill. New England States Animal Agricultural Security Alliance. May 7, 2012, White River Junction, VT.
37. **Smith, J.** Vermont Dairy Farm Biosecurity: 2010 Survey. New England States Animal Agricultural Security Alliance. May 7, 2012, White River Junction, VT.
36. **Smith, J.** Agricultural Emergency Preparedness. Vermont Emergency Preparedness Conference. November 5, 2011, Stowe, VT.
35. **Smith, J.** Developing a New England Regional Agricultural Communications System. New England States Animal Agricultural Security Alliance. September 13, 2011, via FoodShield webinar.

34. **Smith, J.**, K. Waters, T. Naile, S. Degenhart, and F. Peppers. Building extension capacity to support effective risk and crisis communications with agricultural stakeholders. Extension Disaster Education Network Annual Meeting, October 13, 2011, Portland, OR.
33. **Smith, J.**, L. Black, and L. Williams. Emergency exercise participation and evaluation. Extension Disaster Education Network Annual Meeting, October 13, 2011, Portland, OR. (presented by L. Williams and L. Black)
32. **Smith, J.** Prepare to survive a bio-disaster. Vermont Dairy Producers' Conference, February 25, 2010, Burlington, VT.
31. **Smith, J.** Keeping Quality Milk Flowing: Smith Research Briefs. Vermont Dairy Industry Association Annual Meeting, September 23, 2009, Burlington, VT.
30. **Smith, J.** Why an Ag Bio-Disaster Needs to Be on Your Radar, Local Emergency Planning Committee 1, July 14, 2009, Winooski, VT.
29. **Smith, J.** Are you ready for a highly contagious animal disease emergency? Franklin County Fire-Fighters meeting, April 15, 2009, Franklin, VT.
28. **Smith, J.** Why we need to take the risk of animal disease emergencies seriously. "Foreign Animal Disease Response: Role of the Veterinarian." 2009 Vermont Veterinary Medical Association Winter Meeting, February 8, 2009, Burlington, VT.
27. **Smith, J.** Building Community Resiliency: Prepare for the Worst, Plan for the Best – How University of Vermont Extension and Extension Resources Can Help. "Prepare for the Worst, Plan for the Best" Panel, Vermont Emergency Management Conference, November 6, 2008, Lake Morey Inn, Fairlee, VT.
26. **Smith, J.** What Local Emergency Management Needs to Know About Foreign Animal Disease. Local Emergency Planning Committee 8, October 29, 2008, New Haven, VT.
25. Van Wie, S., and **J. Smith**. Prepare to Survive an Ag Bio-Disaster. Cold Hollow Veterinary Service and Northwest Veterinary Associates Client Meeting, October 12, 2008, Sheldon, VT.
24. **Smith, J.** EDEN: Your land grant partner in preparedness and response education. Committee on Animal Emergency Management, United States Animal Health Association, October 20, 2007, Reno, NV.
23. Comstock, S., T. Johnson, and **Smith, J.** Biosecurity—Beyond the Footbath (panel presentation). Eleventh Annual Vermont Grazing Conference: Overcoming Obstacles to Direct Marketing, January 20, 2007, Randolph Center, VT.
22. **Smith, J. M.** Animal Emergency Preparedness. Safety Fair. September 23, 2006, Hyde Park, VT.
21. **Smith, J.** Colostrum—Don't Be Born Without It! Sustainable Livestock Conference, March 3, 2006, Fairlee, VT.
20. **Smith, J.** Challenging Concepts in Calf and Heifer Nutrition. Dairy Nutrition 2005, August 18, 2005, Miner Institute, Chazy, NY.
19. **Smith, J.**, T. Johnson, and M. Wood. Biosecurity Hits the Road. Interactive workshop for 4-H youth at 4-H Dairy Show, August 2, 2005, Addison, VT.
18. **Smith, J.** Biosecurity assessments to biosecurity plans: Safeguarding your livestock operation. NRAES Conference. Dairy Calves and Heifers: Integrating Biology and Management, January 25-27, 2005, Syracuse, NY.
17. **Smith, J.** A New Perspective on Colostrum Quality. Vermont Dairy Herd Improvement Association annual delegate meeting, November 10, 2004, Randolph Center, VT.

16. **Smith, J.** Administering Nature's Vaccine and Other Ways to Protect Your Farm Animals from Invading Germs, NOFA-VT Livestock Nutrition and Health Care Course, September 24, 2004, Burlington, VT.
15. **Smith, J.** Healthy Farms—Healthy Agriculture: An innovative approach to biosecurity education, Mid-Atlantic Consortium Dairy Extension In-Service Conference, June 9, 2004, Wilkes-Barre, PA.
14. **Smith, J.** Liquid Feeding Programs for Optimal Calf Health. 2004 New England Dairy Feed Conference, Thursday April 1, 2004, West Lebanon, NH.
13. **Smith, J.** Liquid Feeding for Optimal Calf Health: Focus on Winter Feeding. Green Mountain Bovine Clinic Calf Care Symposium, March 3, 2004, Guilford, VT.
12. **Smith, J, J. Ather, M. Murray, L. Yandow.** Healthy Farms—Healthy Agriculture. Agri-Mark Producer Meeting, December 2, 2003, Hyde Park, VT.
11. **Smith, J, J. Ather, M. Murray, L. Yandow.** Healthy Farms—Healthy Agriculture. Milk Inspectors FDA Training Meeting, November 3, 2003, White River Junction, VT.
10. **Smith, J, J. Ather, M. Murray, L. Yandow.** Healthy Farms—Healthy Agriculture. DFA Producer Meeting, October 28, 2003, Middlebury, VT.
9. **Smith, J.** Challenging Concepts in Calf and Heifer Nutrition. Dairy Nutrition 2003, August 14, 2003, Miner Institute, Chazy, NY.
8. **Smith, J.** Dead Animal Composting: A Viable Method of Disposal. Continuing Education for Certified Crop Advisers, July 2, 2003, Burlington, VT.
7. **Smith, J.** Dead Animal Composting: A Viable Method of Disposal. New England Dairy Conference, March 14, 2003, St. Albans, VT.
6. **Smith, J.** Calves on bST, heifers on CLA, Julie's in Vermont. Animal Science Department Seminar, February 21, 2003, Burlington, VT.
5. **Smith, J.** Dead Animal Composting: A Viable Method of Disposal. Pioneer Days, February 7, 2003, Middlebury, VT.
4. **Smith, J.** Dead Animal Composting: A Viable Method of Disposal. Seventh Annual Vermont Grazing Conference: Innovations in Grass Farming, January 25, 2003, Randolph Center, VT.
3. **Smith, J.** From Zoo to You: Dairy Research and Extension. Vermont Mastitis Committee, December 13, 2002, Burlington, VT.
2. **Smith, J.** From Zoo to You: Dairy Research and Extension. Vermont DHIA Delegates Annual Meeting, November 6, 2002, Randolph Center, VT.
1. **Smith, J.** Preparing for a successful first transition: Understanding the biology of the calf. Vermont Large Farm Dairy Conference, February 15, 2002, Burlington, VT.

STUDENTS MENTORED

Graduate students mentored

- Committee chair, Deborah Krug, M.S. candidate, Department of Community Development and Applied Economics, University of Vermont, 2013 – 2015.
- Committee member, Sukumar Kandasamy, Ph.D. candidate, Department of Animal Science, University of Vermont, 2007 - 2011.
- Second reader for Master's in Public Health at Yale University, Amy Rogers, 2007.

- Reddy, Jag Jeevan Patlola. 2007. Immune response of young calves to vaccination at two weeks vs. six weeks of age. M.S. Thesis, University of Vermont, Burlington.
- Berthiaume, Devin R. 2006. Growth and health of Holstein heifer calves fed conventional milk replacer at a fixed volume or high protein milk replacer at increasing levels. M.S. Thesis, University of Vermont, Burlington.

Honor's students mentored

- Cosentino, Mia. 2015. Survey of Calf Management Practices on Vermont Dairy Farms. Distinguished Undergraduate Research, University of Vermont, Burlington.
- D'Amore, Stephanie. 2011. The Use of a Disease Simulation Model to Test Strategies for the Prevention and Management of Foot and Mouth Disease on Vermont Dairy Farms. Honor's Thesis, University of Vermont, Burlington.
- Donoghue, Beth. 2007. Immunoglobulin G levels in calves as an indicator of failure of passive transfer. Justin Morrill Honor's Project, University of Vermont, Burlington.
- Knauer, Whitney. 2006. The effects of lactoferrin on the appearance of immunoglobulins in the peripheral blood of Holstein calves. Honor's Thesis, University of Vermont, Burlington.
- Scillieri, Jessica. 2005. The effect of lactoferrin on intestinal development of calves. Honor's Thesis, University of Vermont, Burlington.
- Brunst, Elizabeth. 2004. A study of current colostrum management practices on farms in Vermont and the effects of handling on microbial growth.

SELECTED COURSES AND TEACHING

Undergraduate for-credit courses

ASCI 122, Animal Welfare/Animals in Society, Spring 2016, 39 students, 3 credits

ASCI 122, Animal Welfare/Animals in Society, Fall 2015, 72 students, 3 credits

ASCI 122, Animals in Society/Animal Welfare, Spring 2015, 43 students, 3 credits

ASCI 122, Animals in Society/Animal Welfare, Fall 2014, 87 students, 3 credits

ASCI 001, Introductory Animal Science, JumpStart, Summer 2014, 4 students, 4 credits

Conference and workshop coordination

Each year I coordinate and facilitate at least 1 workshop for farmers, allied industry or regulatory personnel on dairy management, biosecurity, or emergency management.

➤ ***Vermont Breakfast on the Farm (2016)***

Coordinated educational stations and the evaluation of the second Vermont Breakfast on the Farm event hosted by the Vander Weys of Nea Tocht Dairy Farm (over 900 attendees) and Rowells of Green Mountain Dairy Farm (over 1000 attendees).

➤ ***Vermont Breakfast on the Farm (2015)***

Coordinated 8 educational stations and the evaluation of the first Vermont Breakfast on the Farm event hosted by the Vander Weys of Nea Tocht Dairy Farm attended by 500 people.

➤ ***Calf Management Training (2015)***

Coordinated two-day training in two locations in Vermont in collaboration with Cornell Pro-Dairy and Cornell Cooperative Extension. The facilitated webinars reached 55 dairy producers.

➤ ***Introductory Dairy Stockmanship (2015)***

Coordinated 5 one-day trainings featuring Dr. Don Höglund attended by 40 dairy producers, students and veterinarians in Vermont and New York in collaboration with Caring Dairy and Vermont Tech.

➤ **Community Emergency Preparedness Webinar Series (2013)**

Presented 4-week mid-day webinar series on agricultural emergency preparedness topics attended by Extension personnel, regional planners, and local emergency managers.

➤ **Johne's Disease (2012)**

Coordinated presentations featuring Dr. Franklyn Garry attended by 100 dairy producers, students and veterinarians at 4 locations in Vermont.

➤ **Vermont Dairy Industry Association Fall Conference (2009-2014)**

Chaired planning committee (09-10), invited speakers, moderated program at annual fall conference attended by about 40 dairy students, farmers, industry and regulatory personnel. Presented at 2009 meeting.

➤ **Strengthening Community Agrosecurity Planning, Train-the-Trainer (2011)**

Planned and coordinated Vermont pilot of S-CAP training attended by about 25 Extension, industry and government personnel. Presented 1 module.

➤ **Prepare to Survive a Bio-Disaster (2008-2009)**

Planned, coordinated, facilitated and co-presented at 3-session grant-funded workshop series held in 3 locations in Vermont attended by about 100 farmers, allied industry professionals, and responders.

➤ **Agriculture and Food Vulnerability Assessment Training (2007)**

Coordinated and facilitated Vermont session of national training course attended by 25 industry and regulatory agency personnel.

➤ **National Calf and Heifer Conference (2007)**

Planned, coordinated, and facilitated educational tours and workshops attended by over 100 farmers and allied industry professionals.

➤ **Dairy Management Workshops (2003-2006)**

Each year I developed and taught 2-3 workshops (1-3 hours) for dairy farmers and allied industry personnel. Topics included calf health and nutrition, biosecurity, and other dairy herd health issues.

Guest Lectures

- HCOL 186, Animal Products in Human Nutrition, 90-minute lecture, Spring 2016
- Agricultural Medicine and Occupational Safety Training, 90-minute webinar/lecture, Fall 2015
- ASCI 001, Introductory Animal Sciences, 1 75-minute lecture, Fall 2014
- Green Mountain College, 1 60-minute lecture, Spring 2012, Spring 2014
- Agricultural Medicine and Occupational Safety Training, 90-minute webinar/lecture, Fall 2013
- ASCI 155/156, FARMS Junior/Senior Planning Seminar, 1 60-minute lecture, Fall 2010
- PA 317, Systems Analysis and Strategic Management, 1 90-minute lecture, Spring 2010, Spring 2014
- ASCI 122, Animals in Society, 2 75-minute lectures and assignments, Fall 2009, facilitated guest speaker Fall 2011
- ASCI 134/134, CREAM, once a year, on average
- ASCI 281, Career Seminar, panelist 1 lecture, 2003, 2005, and 2007

- SUNY Plattsburgh, ENV 440, Agriculture and the Environment, 120 minute lecture, Fall 2003, 2004, 2005, and 2006 (held at Miner Institute, Chazy, NY)
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PROFESSIONAL SERVICE

National

- USDA National Institute for Food and Agriculture Animal Health Webinar Discussion Leader 2016
- USDA National Institute for Food and Agriculture Proposal Review Panelist 2015
- Dairy Practices Council, Board member, 2013 – 2016
- American Association of Extension Veterinarians, president-elect 2012 – 2013, 2014-2015, president 2013 – 2014, 2015 – 2016
- Secure Milk Supply projects core advisory group and work groups, 2009 – 2014, 2016 - present
- National Institute for Animal Agriculture Foot-and-Mouth Disease Symposium, Steering Committee co-chair, 2012 – 2013
- National Association of County Agricultural Agents, Public Relations Committee, Northeast Regional Vice-Chair, 2013 – 2015
- Center for Food Integrity, Dairy Video Review Panelist, 2012 – present
- Disaster Resilience Proposal Review Panelist 2010
- DAIReXNET (eXtension dairy community of practice) domain leader, animal health, 2013 – present
- Extension Disaster Education Network, S-CAPE Advisory Board, 2011 – 2013
- Extension Disaster Education Network, Exercise Group, 2011 – 2016
- Extension Disaster Education Network, eXtension biosecurity content team leader, 2010 – 2012; eXtension agrosecurity content team member, 2010 – 2016
- Extension Disaster Education Network, Agrosecurity Committee, chair, 2012 – 2013; co-chair, 2010 – 2012; member, 2005 – 2016; Professional Development Committee, member, 2009 – 2016; Development Committee, member, 2007 – 2008
- Professional Dairy Heifer Growers Association, National Calf and Heifer Conference planning committee and local chair 2007
- American Dairy Science Association Production Committee: Animal Behavior and Well-being, member, 2005 – 2008, Symposium Chair 2008
- Bovine Alliance on Management and Nutrition, Board member, 2003 – 2007
- Journal of Dairy Science, Editorial Board, Nutrition, Feeding and Calves section, appointed January 2004, *ad hoc* reviewer 2002 – present
- Journal of the American Veterinary Medical Association, *ad hoc* reviewer since 2002
- Journal of the National Association of County Agriculture Agents, reviewer 2011 – 2016

Regional

- Mid-Atlantic Consortium Regional Dairy Extension In-Service Planning Committee, member, 2002 – 2008, 2015
- EDEN Regional Animal Agrosecurity Conference Planning committee, 2007

Statewide

- Chittenden County Farm Bureau President, 2015 –
- Vermont Designated Johnes Coordinator, 2013 – present
- Vermont Johnes Advisory Committee, member, 2002 – present
- Vermont Dairy Industry Association (VDIA), President, 2008 – 2014; Vice-President, 2006 – 2008; Treasurer/Secretary, 2004 – 2006; Board member, 2002 – 2014
- Vermont Dairy Producers Conference, planning committee member, 2008 – 2013

- Extension Disaster Education Network (EDEN), Vermont point-of-contact, 2009 – 2016; delegate, 2004 – 2009
- Animal Agriculture Alert Network, Extension point-of-contact, 2011 – present
- State Support Function-11 (SSF-11), UVM Extension representative, 2005 – present
- Dairy Farmer Discussion Group, facilitator, 2002 – 2005

University-wide

- Faculty Senate Financial and Physical Planning Committee, 2012 – 2016
- Faculty Senate Educational and Research Technologies Committee, 2008 – 2011
- Faculty Senate, Extension representative, 3-year term, 2005 - 2008
- Search Committee for Provost and Senior Vice President, member, Fall 2005 – Spring 2006

College-wide

- CALS Academic Awards Committee, 2012 – present; Chair, 2014 – 2015
- CALS Land Use Committee, 2011 – 2012
- Extension Faculty Organization, Secretary, 2004 – 2006; Vice-Presiding Officer, 2006 – 2008
- College of Agriculture and Life Sciences International Committee, 2007 – present

Departmental

- Academic Program Review, team member, B.S. Animal Science, SUNY Cobleskill, Spring 2016
- Department Chair Five-Year Review Committee, member, Spring 2014
- Search Committee for ASCI faculty position in biotechnology, Fall 2010 – Spring 2011
- Department Graduate Committee, member, 2003 – present
- Department Dairy Research Committee, member, 2002 – 2007
- Search Committee for ASCI faculty position in nutrition, member, Fall 2005 – Spring 2006

PROFESSIONAL SOCIETY MEMBERSHIPS

- National Institute for Animal Agriculture, member, 2008 – present
 - American Dairy Science Association, member, 1997 – present; attended annual meetings, 1997 – 2007, 2013 – 2015
 - Dairy Calf and Heifer Association (formerly Professional Dairy Heifer Growers Association), member, attended 4 national meetings
 - United States Animal Health Association, member, 2005 – present
 - American Association of Extension Veterinarians, member, 2004 – present
 - National Association of County Agricultural Agents, member, 2003 – 2016
 - Outstanding Young Farmer, Chair of State Competition, 2005 – present
 - Council for Agricultural Science and Technology, member, 2001 – 2004, 2014 - present
 - American Society of Animal Science, member, 2002 – present
 - American Veterinary Medical Association, member, 1994 – present
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