

**VITA**  
**Daniel D. Loy**  
**December 9, 2019**

I. Name of Faculty Member  
 Daniel D. Loy

Departmental Affiliations  
 Animal Science

II. Rank  
 Professor

| <u>Degrees Held</u> | <u>Institution</u>            | <u>Date</u> |
|---------------------|-------------------------------|-------------|
| Ph.D.               | Pennsylvania State University | 1982        |
| B.S.                | Western Illinois University   | 1978        |

IV. Summary of Professional Experience

| <u>Year</u>    | <u>Institution</u>    | <u>Title</u>   |
|----------------|-----------------------|--|
| 2012- present  | Iowa State University | Director, Iowa Beef Center   |
| 2010 - 2012    | Iowa State University | Interim Director, Iowa Beef Center   |
| 1992 - present | Iowa State University | Professor of Animal Science<br>and Extension Livestock<br>Specialist   |
| 1987 - 1992    | Iowa State University | Associate Professor of Animal<br>Science and Extension Livestock<br>Specialist, associate member<br>graduate faculty, 1989 |
| 1982-1987      | Iowa State University | Assistant Professor of Animal<br>Science and Extension Livestock<br>Specialist   |
| 1978-1982      | Penn State University | Graduate Research, Teaching<br>Assistant   |

V. ISU Personnel Record

| <u>Ranks Held</u>      | <u>Date of Appointment</u> | <u>Base</u> | <u>Proportion of assignment in teaching, research, and extension/professional practice</u> |
|------------------------|----------------------------|-------------|--|
| Director and Professor | 2013                       | A           | Extension 55%, Administration 25%<br>Research 10%, Teaching 10%                            |

|                                |      |   |   |
|--------------------------------|------|---|---|
| Director and Professor         | 2012 | A | Extension 60%, Administration 25%<br>Research 15% |
| Interim Director and Professor | 2010 | A | Extension 60%, Administration 25%<br>Research 15% |
| Professor                      | 1992 | A | Extension 85%, Research 15%                       |
| Associate Professor            | 1987 | A | Extension, 100%                                   |
| Assistant Professor            | 1982 | A | Extension, 100%                                   |

VI. Professional Associations

American Society of Animal Science  
Epsilon Sigma Phi  
Iowa Cattlemen's Association  
National Cattlemen's Beef Association  
American Registry of Certified Animal Scientists  
Great Plains Nutrition Council

VII. Awards, Honors and Recognition

University Extension Outstanding Young Professional, 1986  
University Extension Achievement Award, 1986  
Walnut Grove Livestock Service Award, 1987  
College of Agriculture Club Advisor of the Year, 1994  
Award for Excellence - Economic and Community Development, National University  
Continuing Education Association, 1995  
University Extension Achievement Award, 2001  
College of Agriculture – Outstanding Achievement in Extension, 2003  
Gamma Sigma Delta – Extension Mission Award, 2007  
ISU Extension Meritorious Service Award, 2011  
College of Agriculture and Life Sciences, Team Award, 2011  
Iowa Board of Regents Award for Faculty Excellence, 2012  
Extension Fellow, American Society of Animal Science, 2013  
University Award for Outstanding Achievement in Extension or Professional Practice, 2014  
University Extension and Outreach Inaugural Team Award for Excellence in Research-Based  
Programming, 2015  
Animal Industry Service Award, American Society of Animal Science, 2016

VIII. Responsibilities

Teaching

In Spring 1991, taught 40% of:

An. Sci. 511 - Advanced Ruminant Nutrition  
(Off-Campus, 3 credits)

In 1994 taught 50% of AnSci 511 via ICN and video tape.

Have given guest lectures in the following courses:

An. Sci. 191X, 190X, 211, 226,320,345,411, 426, 427X, 501, 519, 520, 345x  
TSM 327

Ag. 450

Vet Med. 413, 487

Veterinary Diagnostic and Production Animal Medicine 481, 483, 436, 491X

Economics 430, 333

In spring of '93 taught 50% of AnSci 102

Co-taught Animal Science 426, Beef Systems Management with Patrick Gunn (2013-2016).

Currently teaching Animal Science 426 Beef Feedlot Systems Management, beginning 2017.

#### Advising

Advisor - Block & Bridle Club, 1992-94, 1998-2000, 2014-15

Advisor, Animal Science Banquet Committee, 1993-94.

Advisor, Animal Science VEISHEA Display, 2000.

Advisor, Collegiate Beef Team, 2004-2010

Advisor, Science with Practice student, 2010

Advisor, Block & Bridle Cyclone Classic Junior Beef Show, 2012-2013

Advisor, Block & Bridle Convention trip, Lubbock, TX 2014

Advisor, Block & Bridle Convention, Tulsa, OK 2015

#### Research and Artistic Creativity

Conduct applied research and demonstration on beef cattle production and ruminant nutrition to support extension responsibilities. This has included evaluating components of beef systems not normally covered by traditional research as well as evaluation of byproducts. Collaborate with research staff on projects in beef production and nutrition.

#### Extension and/or Professional Practice

Provide leadership in extension programs in the area of beef feedlot management and nutrition. Act as technical resource for beef producers, agribusiness, and extension staff. Develop decision-based software programs for the livestock industry and enhance the utilization of these technologies through education. Provide training to Regional Extension Staff in feedlot management.

#### Administration

Give administrative leadership to the Iowa Beef Center including program development, staff supervision, budget responsibility and coordinating grant development.

### Service

Serve as a resource for groups and ad hoc committees seeking to advance the beef industry. Represent the university in service efforts where an understanding of the beef industry is required. Elected to represent the Animal Science Department in the Iowa State University Faculty Senate (2006- 2012). Continues to serve the University through committee and board assignments

### Committee assignments (1987-present)

#### Department

Nutrition conferences (1987-2005)  
Beef Systems Group (1987-present)  
Academic Quadrathlon Committee (1985)  
Chuck Wagon Breakfast (1987-89, 1993, 1994 Chair)  
1990 American Society of Animal Science Meetings,  
Chair, Housing & Food Service Committee (1987-1990)  
Selection Committee, Equine Positions (1988-1989)  
Faculty Promotion and Tenure Committee (1990)  
Departmental Seminar Committee Chair (1989-90)  
Planning committee for the development of facility updates for the Ruminant  
Nutrition Farm (1994-1998)  
Nutrition Planning (1997-present)  
Nutrition Group (1999-present)  
Professional Development (2002-present)  
Post-tenure review committee for Dan Morrical (2002, Chair)  
CSREES Departmental Review Document Writing Committee (2003, Livestock Systems  
Chair)  
Faculty and tenure review committee for Dr. Michael Ort (2003, Chair)  
Social Committee (2005-2010)  
Post-tenure Review Committee for Steve Nissen (2005)  
Faculty Governance Committee (2006-present)  
Collaboration Review Committee for Jim Quigley (2006)  
Beef Editor, Animal Industry Report (2006-present)  
Post-tenure Review Committee for Daryl Strohbahn (2007)  
Tenure Review Committee for Mike Spurlock (2007)  
Animal Science Roundup Committee (2007-present, Chair 2007-2009)  
Feedlot Nutrition Position Search Committee (2008)  
Preliminary Evaluation Committee for Nathan Pyatt to Collaborator Status (2008-2009)  
Post Tenure Review Committee for Peggy Miller (2010)  
Beef Nutrition Farm Manager Search Committee (2010)  
Post Tenure Review Committee for Brad Skaar (2011)  
Preliminary Evaluation Committee for Stephanie Hansen, Chair (2012)

Search Committee for Cow-calf Faculty Position, Chair (2012)  
Ad-Hoc Committee on Post-tenure Review Guidelines (2013-14)  
Animal Science Department Awards Committee (2014-present)  
Facilities Planning- Feed Mill (2014)  
Post Tenure Review Committee for Doran Garrick (2014)  
Post Tenure Review Committee for Don Beitz (2015, Chair)  
Collaborator Review Committee for Kristen Hales (2015)  
Affiliate Review Committee for Casey Frye (2017)  
Post Tenure Review Committee for John Patience (2017)  
Promotion Review Committee for Anna Johnson (2017)  
Search Committee for Cow-calf Faculty Position, Co-chair (2017-2018)  
Post Tenure Review Committee for Brad Skaar (2018)  
Preliminary Evaluation Committee for Nick Gabler (2018)  
Preliminary Evaluation Committee for Jodi Sterle (2019)  
Post Tenure Review Committee for Curt Youngs (2019)

### Extension

4-H Awards Selection (1987-1997)  
Extension Livestock Training (1987-present, Chair, 1999)  
Extension Council Appreciation Days (1987)  
Special Drought Committee (1988-89)  
1990 Farm Progress Show (1990)  
Animal Welfare Committee (1990-present)  
Controversial Issues Training, Planning Committee (1990)  
LISA Beef -Forage Conference Planning Committee (1989-90)  
Book Award Selection Committee (1992)  
Extension Steering Committee to Review Operations (1993-94)  
ISU Distance Education Interest Group (1994-1997)  
Environmental Management Committee (1995-1997)  
Needs Assessment Committee (1996)  
4-H Beef Advisory (1996-present)  
Beef Crisis Committee (1996)  
Beef Link Training for Beef FLS (Chair, 1999)  
Field Livestock Training, Chair (2001)  
State 4-H and FFA Livestock Judging (Co-Chair, 2003)  
State 4-H and FFA Livestock Judging (Chair, 2004-8)  
Animal Science Roundup (Beef Program coordinator)  
150<sup>th</sup> Anniversary Celebration Committee (2005)  
Grain Quality Initiative Management Team (2005-present)  
Extension 150<sup>th</sup> Anniversary Planning (2006-7)  
Search Committee for SW Iowa Beef Field Specialist (2012)  
Campus Mentor for Chris Clark, SW Iowa Beef Specialist (2012)  
ANR Drought Preparedness Committee (2012)  
Search Committee for SE Iowa Beef Field Specialist (2013)  
ANR Professional Development Planning Committee (2013)  
ANR Business Model Planning Committee (2016)

ANR Strategic Planning Committee (2016-17)  
Search Committee for ANR Extension Director and Associate Dean for Extension,  
College of Ag and Life Sciences (2019)

College/ISU

Allee Systems Project Steering Committee (1987-1993)  
Leopold Center for Sustainable Agriculture - Ad Hoc Advisory Committee (1987)  
Southeast Iowa Research Center Steering Committee (1987)  
Leopold Center for Sustainable Agriculture - Screening Committee for Director (1987)  
Leopold Center for Sustainable Agriculture - First Annual Conference Planning  
Committee (1989)  
Forages in Iowa, Task Force (1988-89)  
Leopold Center Animal Issue Team (1988-present)  
Leopold Center Waste Management Issue Team (1989-1996)  
Beef Task Force, Co-chair (1989-1992)  
Nutritional Sciences Council (1989-present)  
College of Ag - Environmental Policy Task Force (1988-89)  
College of Ag - Livestock Environment Conference Planning (1991)  
ISU Extension Fiber Optics Network Committee (1993-1995)  
Selection Committee for Armstrong Farm Livestock Mgr (1993)  
Off-Campus Degree Programs - Supervisor Committee (1995-present), Chair 1996-97  
Southwest Iowa Research Farms Beef Committee (1996-present)  
Selection Committee for Beef Production Medicine Position (1996-97)  
CEED Animal In-Service Planning Committee (1997) (1999)  
Selection Committee for Beef Production Medicine Position (1997)  
Selection Committee for VDPAM Serologist Position (1998-99)  
CAFO Committee (2001)  
Post tenure review committee for Nolan Hartwig (2005)  
ISU Faculty Senate (2006-12)  
ISU Benefits Manager Interview Committee (Faculty Rep., 2006)  
ISU Faculty Senate Governance Council (2007-9)  
ISU Faculty Senate Appeals Committee Ad Hoc Investigative Committee (2007-2008)  
ISU Faculty Senate College of Agriculture and Life Sciences Caucus Chair (2009-12)  
ISU Faculty Senate Representative Committee (2009-12)  
ISU Faculty Senate Resource Policies and Allocations Council (2009-12)  
ISU Faculty Senate Executive Council (2009-12)  
ISU Faculty Senate Appeals Ad Hoc Investigative Committee (2010)  
ISU Provost Office Ad Hoc Student Grievance Committee (2010)  
ISU Faculty Senate Oversight Committee for Planning of School of Education, Chair  
(2010-11)  
Faculty Mentor for Grant Dewell, College of Vet Med.(2010- present)  
ISU Policy Library Committee on Software Copyright Ownership (2011-2013)  
ISU Faculty Senate Appeals Ad Hoc Investigative Committee (2012)  
Review Committee for promotion of Dr. Steve Ensley (VDPAM) to Senior Clinician  
(2012)  
ISU Faculty Senate Appeals Committee—Ad Hoc Investigative Committee (2012)

ISU Faculty Senate Appeals Committee—Ad Hoc Investigative Committee (Chair, 2013)  
Search committee for Iowa Pork Industry Center Director (2014-15)  
Search committee for VDPAM Beef Faculty Position (2014-15)  
Search committee for Extension Wildlife Specialist Position (2014-15)  
Search committee for Grain Management Faculty Position (2014)  
ISU Provost Awards Committee (2015-present)  
ISU Faculty Review Board (2013-present)  
Faculty Mentor for Mark Licht, Department of Agronomy (2016-present)  
ISU Major Sanctions Committee (Chair, 2017)  
ISU Athletic Council (2017-present)  
ISU Faculty Appeals Committee (2006-2014, 2018- present)  
Search Committee for ANR Extension Director and Associate Dean for Extension,  
College of Ag and Life Sciences (2019)  
ISU Honorary Degree Committee (2019-present)  
ISU University Sustainability Committee (2020-present)  
ISU Faculty Senate Appeals Committee—Ad Hoc Investigative Committee (2019)  
ISU Zero Waste Task Force (2020)  
ISU Extension and Outreach Virtual Education Task Force (2020)

#### State

Iowa Cattlemen's Assn., Grading Committee (1987-1998)  
Iowa Farm Bureau Beef Advisory (1987-present)  
Iowa Cattlemen's Assn. Financing Seminar Planning Committee (1987)  
Governor's Special Drought Committee (1988)  
Iowa Cattlemen's Assn. Beef Quality Assurance Task Force (1988-present)  
Iowa Business Council - Livestock Industry Task Force (1989-90)  
Iowa Animal Agriculture Development Council (1990-1995)  
National Ag Forum Committee (1991)  
Iowa Feed and Nutrition Seminar, Board of Directors (1990-present)  
Iowa Cattleman's Association - Feeder Council (1992-present)  
Iowa Commercial Cattle Feeders Executive Board (1994-1996)  
Ethanol Production and Livestock Feeding, Educational Planning Committee (1994-1995)  
Iowa Beef Quality Initiative Standards Committee (1998-present)  
Iowa Cattleman's Assn. Beef Safety Committee (1999-present)  
Beef 2000 Planning Committee (1999)  
ISU/ICA Beef Strategic Planning (2004-2006)  
ICA Process Verification group (2005)  
Iowa Renewable Fuels Phosphorous Task Force (2005-2006)  
Iowa Renewable Fuels Distillers' Grains Testing Task Force (2007-2008)  
Iowa Cattleman's Association, Board of Directors (2010-present)  
Iowa Governor's Charity Steer Show (2012)  
Iowa State Fair Board (2012)  
Small Feedlot Committee (2013)  
Iowa Beef Industry Council Beef Quality Assurance Advisory (2013-present)  
Iowa Beef Industry Council Research Advisory Committee (2017-present)  
Iowa Cattlemen's Association Traceability Task Force (2019)

## National

Midwest Section American Society of Animal Science, Extension Committee, (1987-88), Chair, 1988  
North Central Region Livestock Specialists Feedlot Committee, Chair (1991-1994)  
Planning Committee, Four State Feedlot Environment Conference (1991-1992)  
NCA-IRM-SPA Stocker-Feeder Committee (1992-present)  
Beef Cattle Resource Development Committee, Vice-Chair-Nutrition (1992-present)  
Planning Committee, North Central Regional Livestock Specialist Training (1994)  
NCR-185 Feedlot Nutrition and Management (1994-2004)  
Planning Committee, Four State Heat Stress Conference (1996)  
National Corn Refiners/Iowa Corn Promotion Board-Co-product Task Force (1996)  
Planning Committee National NRC Software Conference (1997)  
National Dairy Beef Conference Planning Committee (2004-2005)  
NCR-206 Feedlot Nutrition and Management (2005-2007)  
NCC-206 Feedlot Nutrition and Management (2008-2009)  
Vigortone/Provimi International Conference Planning (2006-2007)  
National Distillers' Grains Storage Conference Planning Committee (2008)  
NCCC-208 Feedlot Nutrition and Management (2009-present)  
Mid-plains Ranch Practicum Planning (2010)  
UNL Feedlot Committee (2010-present)  
Certified Angus Beef Quality Think Tank (2011)  
NCBA Sustainability Study (2012)  
ADM/Monsanto Stover Harvest Project Review (2012)  
Wal-mart Beef Sustainability Consortium (2013)  
Planning Committee, National Beef Welfare Symposium (2013-2014)  
US Roundtable for Sustainable Beef, indicators working group (2015-present)  
NCBA Secure Beef Supply (SBS) SBS Continuity of Business for an FMD infected feedlot Working Group (2015-present)  
Harlan Ritchie Symposium Planning Committee- Midwest ASAS (2015-present) (Chair 2017-2018)  
US Roundtable for Sustainable Beef, Sustainable Solutions Working Group, 2016-present.  
National Corn Grower's Association Distillers Feed Product Roundtable (2019)  
Beef Improvement Federation Convention (2021) Planning Committee, Chair (2019)

### (ii) Publications

#### (a) refereed journal articles - published

1. Hertzler, G., D., E. Wilson, D. D. Loy and G. H. Rouse. 1988. Optimal beef cattle diets formulated by nonlinear programming. *J. Anim. Sci.* 66:1115.
2. Loy, D. D., H. W. Harpster and E. H. Cash. 1988. Hormone secretory patterns, pituitary characteristics and selected blood metabolites in feedlot steers implanted with growth stimulants. *Domestic Animal Endo.* 5(3):199.



3. Loy, D. D., H. W. Harpster and E. H. Cash. 1988. Rate, composition and efficiency of growth in feedlot steers reimplanted with growth stimulants. *J. Anim. Sci.* 66:2668.
4. Lawrence, John D., Zhi Whang and Dan Loy. 2000. Elements of cattle feeding profitability. *J. of Agricultural and Applied Economics* 31:329.
5. Koknaroglu, H., D. D. Loy, D. E. Wilson, M. P. Hoffman, and J. D. Lawrence. 2005. Factors Affecting Beef Cattle Performance and Profitability. *Professional Animal Scientist* 21:286.
6. Koknaroglu, H., D.D. Loy and M.P. Hoffman. 2005. Effect housing, initial weigh and season on feedlot performance of steers in Iowa. *South African J. of Animal Sci.* 35(4):282.
7. Loy, Dan. 2007. By-product utilization in Grazed Cattle. *Vet. Clin. Food Anim.* 23(2007):41-52.
8. Pritchard, R. H., D. D. Loy and D. L. Boggs. 2008. Feeding strategies to reduce corn use. ALPHARMA Beef Cattle Nutrition Symposium: Joint Beef Species. *J. Anim. Sci.* Vol. 86, E-Suppl. 2/*J. Dairy Sci.* Vol. 91, E-Suppl. 1
9. Koknaroglu, H., D. D. Loy and M. P. Hoffman. 2008. Dry matter intake prediction of steers and heifers in the feedlot: Effect of initial weight on dry matter intake. *Phillipine Agric. Sci.*, 91: 469-472.
10. Koknaroglu, H., D. Loy, M. Hoffman, A. Trenkle and J. Lawrence. 2011. Integration of pasture systems for cattle finishing programs. *Asian Journal of Animal and Veterinary Advances* 6 (2):132-154.
11. Pastoor, J. W., D. D. Loy, A. Trenkle, and J. D. Lawrence. 2012. Comparing Fed Cattle Performance in Open Lot and Bedded Confinement Feedlot Facilities. *Professional Animal Scientist* 28:410-416.
12. Drewnoski, M. E., S.M. Ensley, D.C. Beitz, D.D. Loy, P.M. Imerman, J.A. Rathje , and S.L. Hansen. 2012. Assessment of ruminal hydrogen sulfide or urine thiosulfate as diagnostic tools for sulfur induced polioencephalomalacia in cattle. *J. Vet. Diagnostic Investigation* 24:702-709.
13. N. J. Schuler, C. J. Bern, D. D. Loy, T. J. Brumm, D. R. Strohbehn. 2014. Mixing beef feed rations containing wet distillers grains. *Applied Engineering in Agriculture* 30:199-204.
14. R.L. Weaber, J. E. Beever, H. C. Freetly, D. J. Garrick, S. L. Hansen, K. A. Johnson, M. S. Kerley, D. D. Loy, E. Marques, H. L. Neibergs, E. J. Pollak, R. D. Schnabel, C. M. Seabury, D. W. Shike, M. L. Spangler and J. F. Taylor. 2014. Analysis of US cow-calf producer survey data to assess knowledge, awareness and attitudes related to genetic improvement of

feed efficiency. Proceedings, 10<sup>th</sup> World Congress on Genetics Applied to Livestock Production., Vancouver BC, Canada, August 2014.

15. Mahdi Saatchi, Jonathan E. Beever, Jared E. Decker, Dan B. Faulkner, Harvey C. Freetly, Stephanie L. Hansen, Helen Yampara-Iquise, Kristen A. Johnson, Stephen D. Kachman, Monty S. Kerley, JaeWoo Kim, Daniel D. Loy, Elisa Marques, Holly L. Neibergs, E. John Pollak, Robert D. Schnabel, Christopher M. Seabury, Daniel W. Shike, Warren M. Snelling, Matthew L. Spangler, Robert L. Weaver, Dorian J. Garrick and Jeremy F. Taylor. 2014. QTLs associated with dry matter intake, metabolic mid-test weight, growth and feed efficiency have little overlap across 4 beef cattle studies. *BMC Genomics* 2014, 15:1004 (20 November 2014)
16. Lundy, E.L., D.D. Loy, and S.L. Hansen. 2015. Influence of distillers grains from a cellulosic ethanol process utilizing corn kernel fiber on nutrient digestibility of lambs and steer feedlot performance. *J. Anim. Sci.* 93: 5: 2265-2274 doi:10.2527/jas.2014-8572
17. Lundy, E.L., B.E. Doran, E. Vermeer, D.D. Loy, and S.L. Hansen. 2015 Influence of corn particle size on steer performance and carcass characteristics when fed diets with moderate inclusions of wet distillers grains plus solubles. *Prof. Anim. Sci.* 31:535-542; doi:10.15232/pas.2015-01387.
18. Van Emon, M.L., D.D. Loy and S. L. Hansen. 2015. Determining the preference, in vitro digestibility, in situ digestibility, and receiving period performance of steers fed a novel algae meal derived from heterotrophic microalgae. *Journal of Animal Science* 93: 6: 3121-3129 doi:10.2527/jas.2014-8654
19. Gunn, P.J. and D.D. Loy. 2015, Opportunities and Challenges in a Changing Beef Industry: Results of a Statewide Needs Assessment in Iowa. *J. of Extension* 53:5, October 2015.
20. Stokes, R.S., M.L. Van Emon, D.D. Loy and S.L. Hansen. 2015. Assessment of algae meal as a ruminant feedstuff: Nutrient digestibility in sheep as a model species. *J. Anim. Sci.* 93: 11: 5386-5394 doi:10.2527/jas.2015-9583
21. Gunn, P.J. and D.D. Loy. 2015, Response Rate and Stakeholder Attitude towards Use of Interactive Electronic Audience Response (Clickers) in Extension Programming. *J. of Extension.* 53, no.6, Dec. 2015
22. Stokes, R.S., D.D. Loy and S. L. Hansen. 2016. Effects of increased inclusion of algae meal on finishing steer performance and carcass characteristics. *J. Anim. Sci.* 94:687.
23. E. L. Lundy, C. E. Andresen, S. A. Freeman, D. D. Loy, and P. J. Gunn. 2017. Utilization of a modified Delphi method for needs assessment and curriculum revision of a senior-level beef systems management course. *NACTA Journal* 61(3):193-196.

24. Niedermeyer, E.K., O.N. Genther-Schroeder, D.D. Loy and S.L. Hansen. 2017. The effects of injectable trace minerals on growth performance and mineral status of Angus beef steers raised in a natural feedlot program. *The Professional Animal Scientist* 33:2 (186-193).
25. Seabury CM, DL Oldeshulte, M Saatchi, JE Beever, JE Decker, YA Halley, EK Bhattarai, M Molaei, HC Freetly, SL Hansen, H Yampara-Iquise, KA Johnson, MS Kerley, JW Kim, DD Loy, E Marques, HL Neibergs, RD Schnabel, DW Shike, ML Spangler, RL Weaber, DJ Garrick and JF Taylor. 2017. Genome-Wide Association Study For Feed Efficiency and Growth Traits in U.S. Beef Cattle. *BMC Genomics* 18: 386.
26. Andresen, C.E., D.D. Loy, T.A. Brick and P.J. Gunn. 2018. Case Study: Effects of extended-release eprinomectin on cow-calf performance and reproductive success in a fall-calving beef herd. *The Professional Animal Scientist* 34:2 (223-229).
27. Niedermayer, E.K., O.N. Genther-Schroeder, D.D. Loy and S. L. Hansen. 2018. Effect of varying trace mineral supplementation of steers with or without hormone implants on growth and carcass characteristics. *J. Anim. Sci.* 96:3 (1159-1170).
28. Andresen, C.E., D. D. Loy, T.A. Brick, LL Schulz and P.J. Gunn. 2019. Effects of extended-release eprinomectin on productivity measures in cow-calf systems and subsequent feedlot performance and carcass characteristics of calves. *Translational Anim. Sci* 3:1 (273-287).
29. Jackson, T., R. N. Charmichael, E.L. Deters, E.M. Messersmith, D.D. Loy and S.L. Hansen. 2020. Comparison of multiple single-use, pulse dose trace mineral products provided as injectable, oral drench, oral paste, or bolus on circulating and liver trace mineral concentrations of beef steers. *Appl. Animal Sci.* 36:1 (26-35).

(b) non-refereed journal articles, newsletters, and conference proceedings in technical, semi-technical and popular publications.

1. Harpster, H. W., E. H. Cash, M. L. Wahlberg and D. D. Loy. 1979. The value of alfalfa hay and buffers for starting cattle on feed. *Pennsylvania Livestock Day Animal Sci. Res. Rep.*, p. 118.
2. Loy, D. D., H. W. Harpster and E. H. Cash. 1981. Effects of Ralgro and ration energy level on growth in beef steers. *Pennsylvania Livestock Day Anim. Sci. Res. Rep.*, p. 110.
3. Loy, Dan. The "I's" Have It-Implants and Ionophores. *Feedlot Management*. May, 1983.
4. Loy, D. D., H. W. Harpster and E. H. Cash. 1983. Final report: Responses to growth stimulants in feedlot cattle. I. composition of growth and duration of gain response. *Pennsylvania Dairy and Livestock Day Proc.*, p. 77.

5. Loy, D. D., H. W. Harpster and E. H. Cash. 1983. Final report: Responses to growth stimulants in feedlot cattle. II. hormone secretory patterns and pituitary parameters. Pennsylvania Dairy and Livestock Day Proc., p. 79.
6. Loy, Dan and Daryl Strohbehn. Post-Drought Feeding-Supplements Expensive but Justifiable. Angus Journal, Dec. 1983.
7. Hayenga, M., A. Hallam, D. Loy, D. Wilson, H. Witt and L. Aldinger. 1984. The causes and policy implications of the recent decline in the Iowa livestock production and meat processing industries. Project commissioned by: Iowa Legislative Assistance Group, University of Iowa, Oakdale, IA. Nov. 1, 1984.
8. Loy, Dan. Starting Cattle on Feed. Iowa Cattleman. Oct. 1984.
9. Loy, Dan. Feeding Systems for Iowa Feedlot Cattle. Iowa Cattleman. April, 1984.
10. Harpster, H. W., D. D. Loy, J. L. Watkins, W. L. Kjelgaard, P. M. Anderson, S. M. Abrams, E. H. Cash and L. L. Wilson. 1985. Final report: Ammoniated brewers grains for feedlot bulls. Pennsylvania Dairy and Livestock Day Rep., p. 74.
11. Henning, W. R., D. D. Loy and D. E. Wilson. 1985. Market cattle rail transportation study. Pennsylvania Dairy and Livestock Day Rep., p. 64.
12. Loy, Dan. Corn Gluten Feed for Beef Cattle 1 - An Update. Iowa Cattleman, Sept. 1985.
13. Loy, D. D., G. H. Rouse and D. R. Strohbehn. 1985. Economic sensitivity analysis of a 2-year study involving the relationship between energy level and frame size. Iowa State Univ. Beef Cattle Res. Rep. ASL-379.
14. Loy, D. D. and D. E. Wilson. 1985. An analysis of 6 years of cattle feeding production records by feedlot size. Iowa State Univ. Beef Res. Rep., ASL-R385.
15. Rouse, G. H., D. R. Strohbehn and D. D. Loy. 1985. The relationship of energy level and frame size on performance, carcass characteristics and boxed beef yields. Iowa State Univ. Beef Cattle Res. Rep., ASL-376.
16. Rouse, G. H., D. R. Strohbehn and D. D. Loy. 1985. Drop credit yields for steers of three frame sizes. Iowa State Univ. Beef Cattle Res. Rep., ASL-377.
17. Strohbehn, Daryl, Dan Loy and Doyle Wilson. Beef Research Highlights at ISU. Iowa Cattleman Jan. 1985.
18. Trede, L. D., M. L. Hayenga, J. A. Hallam, D. D. Loy, S. W. Melvin, S. G. Sapp, D. J. Holtkamp and J. Geller. 1985. The economic environment for cattle feeding in Iowa. ISU College of Agriculture Beef Task Force. BTF1.

19. Wilson, D. E. and D. D. Loy. 1985. Progress report: computer-aided feedlot management. Iowa State Univ. Beef Cattle Res. Rep., ASL-386.
20. Hartwig, Nolan R. and Daniel D. Loy. 1986. Retained ownership of feeder calves. Animal Nutrition and Health. Oct. 1986.
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292. Loy, Dan. 2017. Resilience and Compassion. October 2017 Iowa Cattleman and Iowa Beef Center Growing Beef Newsletter
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294. Loy, Dan. 2017. Iowa Beef Center- 2017 in Review. December 2017 Iowa Cattleman and Iowa Beef Center Growing Beef Newsletter
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300. Loy, Dan. 2018. Forage Planning. June 2018 Iowa Cattleman and Iowa Beef Center Growing Beef Newsletter
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303. Loy, Dan. 2018. Thanks, Joe!. September 2018 Iowa Cattleman and Iowa Beef Center Growing Beef Newsletter
304. Loy, Dan. 2018. Changes at the Iowa Beef Center. October 2018 Iowa Cattleman and Iowa Beef Center Growing Beef Newsletter
305. Loy, Dan. 2018. Adding Value to your Calf Crop and You. November 2018 Iowa Cattleman and Iowa Beef Center Growing Beef Newsletter



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308. Loy, Dan. 2018. Evaluating Corn Silage and Earlage—What’s Typical? Proceedings Northwest Iowa Silage Conference. Sutherland, Iowa. August 28, 2018.
309. Euken, Russ and Dan Loy. 2018. Corn Silage and Earlage—Characteristics and Use in Iowa (2017). National Silage for Beef Conference. Mead, NE. University of Nebraska- Lincoln and Iowa State University, June 2018.
310. Loy, Dan. 2019. The Feedlot of the Future. February 2019 Iowa Cattleman and Iowa Beef Center Growing Beef Newsletter
311. Loy, Dan. 2019. What exactly do we mean by calving under roof?. March 2019 Iowa Cattleman and Iowa Beef Center Growing Beef Newsletter
312. Loy, Dan. 2019. Green Thoughts. April 2019 Iowa Cattleman and Iowa Beef Center Growing Beef Newsletter
313. Loy, Dan. 2019. Who is your Customer?. May 2019 Iowa Cattleman and Iowa Beef Center Growing Beef Newsletter
314. Loy, Dan. 2019. Turning the Tide on Dwindling Iowa Pasture Resources. June 2019 Iowa Cattleman and Iowa Beef Center Growing Beef Newsletter
315. Loy, Dan. 2019. Changes in Iowa Feedlots by Size. July 2019 Iowa Cattleman and Iowa Beef Center Growing Beef Newsletter
316. Loy, Dan. 2019. Your Priorities are Our Priorities. August 2019 Iowa Cattleman and Iowa Beef Center Growing Beef Newsletter
317. Loy, Dan. 2019. Be Safe this Fall. September 2019 Iowa Cattleman and Iowa Beef Center Growing Beef Newsletter
318. Loy, Dan. 2019. Try a Podcast this Harvest Season. October 2019 Iowa Cattleman and Iowa Beef Center Growing Beef Newsletter
319. Loy, Dan. 2019. Managing Costs. November 2019 Iowa Cattleman and Iowa Beef Center Growing Beef Newsletter
320. Loy, Dan. 2019. Wrapping up the Decade of the 2010’s. December 2019 Iowa Cattleman and Iowa Beef Center Growing Beef Newsletter.

321. Loy, D. K. Lippolis, E. Lundy, M.E Reynolds, P. Wall, J. Williams and M. Honeyman. 2019. The relationship between carcass merit and maternal traits in beef cattle. A case study and literature review written for Certified Angus Beef. October 2019.

(h) Non-print educational materials

**Computer programs and related materials**

1. Miller, M. M., Daryl Strohhahn, Dan Loy and Phil Spike. 1983. Beef Cow Ration Analysis. MCS-13.
2. Strohhahn, D. R., D. D. Loy and Lee McFee. 1983. 4-H Beef steer weight and frame analyzer. CP/4H1.1.
3. Loy, D., M. Miller and P. Spike. 1984. Beef feedlot ration analysis. MCS-7.
4. Miller, M., D. Loy and T. Wickersham. 1984. Feeder lamb ration analysis. MCS-4.
5. Wilson, D. E., D. D. Loy and G. H. Rouse. 1986. Feedlot performance and cost monitoring program (Version 1.0). Copyright 186 ISURF.
6. Loy, Dan, Phil Spike, Mike Duffy and Michael Miller. 1987. Costs and returns to beef cattle feeding. MCS-14.
7. Loy, Dan, Phil Spike and Michael Miller. 1987. Beef Feedlot Ration Analysis. MCS-7 (Version 2.0).
8. Wilson, D. E. and Dan Loy. 1989. Feedlot performance and cost monitoring program (Version 2.0) Copyright 1989 ISURF.
9. Wilson, D. E., D. G. Morrill, D. D. Loy and W. D. Busby. 1990. Lamb Feedlot Monitoring Program (Version 1.0) Copyright 1990 ISURF.
10. Loy, Dan. 1993. ISU Feed Production and Use Balancer. Software developed for Horizons.
11. Loy, Dan. 1995. Beef Feedlot Crop and Feed Planner (Version 1.0)
12. Dahlke, G., D. Loy and D.E. Wilson. 1997. Feedlot Performance Monitoring for Windows (version 1.0) (version 1.1). Iowa State University Research Foundation AGS-4.
13. Loy, Dan and Jeanne Weibke. 1998. Beef Feedlot Ration Analysis MCS-7 (version 3.0).
14. Strohhahn, Daryl and Dan Loy. 1998. Grid Comparison Program (field test version)

15. Dahlke, Garland and Dan Loy. 2000. Feedlot Performance and Cost Monitoring Program for Windows (Version 2.0). AGS-SD4. October 2000.
16. Dahlke, Garland, Daryl Strohbehn and Dan Loy. 2004. BRANDS Beef Ration and Nutrition Decision Software. Beef Cow and Heifer Modules—Standard Edition. Iowa State Univ. Brands 0100.
17. Dahlke, Garland, Daryl Strohbehn and Dan Loy. 2004. BRANDS Beef Ration and Nutrition Decision Software. Growing and breeding beef modules—Standard edition. Iowa State Univ. Brands 0200.
18. Dahlke, Garland, Daryl Strohbehn and Dan Loy. 2004. BRANDS Beef Ration and Nutrition Decision Software. Feedlot module—standard edition. Iowa State Univ. Brands 0300.
19. Dahlke, Garland, Daryl Strohbehn and Dan Loy. 2004. BRANDS Beef Ration and Nutrition Decision Software. Professional Edition. Iowa State Univ. Brands 0500.
20. Edwards, William and Dan Loy. 2012. Corn silage pricer—Drought model. Ag Decision Maker A1-65.
21. Joe Sellers, Garland Dahlke and Dan Loy. 2012. CRP Cost Calculator.  
<http://www.iowabeefcenter.org/Software/CRPhay2012.xls>
22. Euken, Russ, Beth Doran, Chris Clark, Shawn Shouse, Shane Ellis, Dan Loy and Lee Schulz. 2015. Feedlot Facility Economic Calculator  
<https://docs.google.com/forms/d/13JJGrOC3UcXhwh9xqzLv6Yg3jQ65pXUBGGv8VAGPyb8/viewform>

Videotapes: Corn:Adding Value to Iowa's Future. 15:00 February 1995  
 Value Based Marketing Case Studies. 10:00 January 1998  
 Cattlemen-to-Cattlemen segments 7:00 September 2012  
[www.beefefficiency.org](http://www.beefefficiency.org)

(i) other contributions to print, broadcast, electronic media  
 \*numerous interviews by telephone have been given for reporters for both  
 print and broadcast media.

(v) Significant Presentations outside of normal activities - invited

| <u>Year</u> | <u>Title of Paper or Presentation</u> | <u>Meeting/Location</u> |
|-------------|---------------------------------------|-------------------------|
| 1982        | Feeding programs for growing-         | Proc. Penn State        |

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|      | finishing cattle.   | Beef Cattle Conf.<br>University Park, PA  |
| 1983 | Implants and Ionophores for<br>feedlot cattle.                          | ISU Cattle Feeder's<br>Shortcourse, Ames, IA  |
| 1983 | Computer applications in<br>cattle feeding.                             | Proc. FARM '83-<br>Computer Conference<br>Ames, Storm Lake, &<br>Red Oak, IA                    |
| 1984 | Supplementation of grazing cattle                                       | Southern Iowa Back-<br>grounding Series<br>Red Oak, Lamoni &<br>Bloomfield, IA                  |
| 1984 | Computer Application Tools<br>for Animal Agriculture<br>Spreadsheets    | Computer Applications<br>in Feeding and Manage-<br>ment of Annual-NCCI<br>Workshop, Madison, WI |
| 1985 | Iowa Cattle Feeding Costs - 1984  | Iowa Cattlemen's Assn.<br>Custom Feeding Conf.<br>Ames, IA                                      |
| 1985 | Nutritional management for cattle<br>during the first month on feed     | Iowa Vet. Med.<br>Assn., Des Moines, IA   |
| 1986 | Feeding corn processing by-<br>products to beef cattle                  | Cornbelt Cow-Calf<br>Conference, Ottumwa, IA  |
| 1986 | Starting cattle on feed   | Iowa Bovine Practitioners<br>Seminar, Des Moines, IA  |
| 1986 | Protein requirements of<br>finishing cattle                             | Pennsylvania Cattle Day,<br>Lancaster, PA   |
| 1986 | Feedlot Monitoring  | Pennsylvania Cattle Day,<br>Lancaster, PA   |
| 1987 | Nutrition for starting calves   | Walnut Grove Feed Dealers<br>Seminar, Sioux City, IA  |
| 1987 | Feeding cattle competitively<br>in the Upper Midwest into<br>the 1990's | MSD AgVet Seminar,<br>Sioux Falls, SD   |

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| 1987 | Weaning management and starting calves on feed       | Cattlemen's Seminar, Roseville, IL                                     |
| 1987 | Nutrition of incoming or retained calves.            | Four-State Cow-Calf Conference. Marysville, KS and Shenandoah, IA.     |
| 1987 | What the ISU Feedlot Records show us.                | Tri State Cattle Conference, Galena, IL.                               |
| 1988 | New developments in implants and feedlot nutrition   | Cornbelt Feeders Meeting Atlantic, IA.                                 |
| 1988 | Feed additives and implants -an update               | IVMA Bovine Practitioner's Seminar, Des Moines, IA.                    |
| 1988 | Minerals and feedlot cattle performance              | IVMA Bovine Practitioner's Seminar, Des Moines, IA.                    |
| 1988 | Two-phase feeding systems for the Midwest            | Cenex/Land O'Lakes Technical Seminar, Omaha, NE                        |
| 1988 | Using drought damaged corn silage for feedlot cattle | Tri-State Cattle Conference East Dubuque, IL                           |
| 1988 | Using drought forages for beef cows                  | Tri-State Cattle Conference East Dubuque, IL                           |
| 1988 | Managing your forage for beef cattle                 | 13th Forage Symposium Iowa Forage & Grasslands Council, Des Moines, IA |
| 1988 | Competitiveness of the Iowa Feedlot Business         | Agriculture: Positioning for the 1990's, Red Oak, IA                   |
| 1990 | Effect of implants on carcass grade                  | Regional Implant Symposium, Omaha, NE                                  |
| 1990 | New technology in Beef Production                    | Triangle Ag Service Meeting, Monticello, IA                            |
| 1990 | Beef Cow Cost Trends                                 | Tri-State Beef Conference Galena, IL                                   |

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| 1990 | Beef Feedlot Cost Trends   | Tri-State Beef Conference<br>Galena, IL  |
| 1991 | Improving Feedlot Efficiency   | BIC Conference<br>Iowa Farm Bureau<br>Des Moines, IA                             |
| 1992 | Mineral Supplementation of Beef Herds                                | Cornbelt Cow-Calf<br>Conference, Ottumwa, IA                                     |
| 1992 | Beef Quality Assurance   | Iowa Connection Tour<br>Farm Credit<br>Iowa Cattleman's Assn.<br>East Central IA |
| 1992 | Competitiveness of the Iowa Beef Industry                            | Pfizer Agribusiness<br>Seminar, Ames, IA   |
| 1993 | Feeding Holstein Steers for Beef                                     | Packerland Beef Day,<br>Ossian, IA   |
| 1993 | Protein Levels and Implants for Finishing Cattle                     | Iowa Connection Tour,<br>Sioux Center, IA  |
| 1994 | Nuevas Alternations para la Rica, Producción de Carne                | University of Costa<br>San José  |
| 1994 | Feed Bunk Management   | Tri State Beef Days<br>Dubuque, IA and<br>Prairie du Chen, WI                    |
| 1995 | Facilities and Environment to Reduce Stress Impact in Feedlot Cattle | United Cattle Company<br>1995 Cattle Specialists'<br>Collage. Sioux Falls, SD    |
| 1995 | Competitiveness and Efficiency in Iowa Cattle Feeding                | Quality Liquid Feeds/Land O'<br>Lakes Seminar. Waterloo, IA                      |
| 1995 | Feedlot Nutrition  | ISU Chapter AABP, Ames, IA   |
| 1995 | Ethanol Coproducts   | Farmland Industries Feedlot<br>Seminar, Carroll, IA                              |
| 1995 | Corn Processing Industry - Feeding Their Byproducts                  | Vita Plus Technical Conference<br>Madison, WI                                    |
| 1995 | Assessing Feeder Calf Value  | Growmark Feedlot Seminar   |

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|      |   | Rockford, IL  |
| 1995 | Nutrition and Management<br>in a Value Based Market | Growmark Feedlot Seminar<br>Rockford, IL                                    |
| 1996 | Alternative Feeds and their Value                   | Cattlemen's Strategies,<br>Davenport, IA                                    |
| 1997 | Corn Coproducts for Cattle Feed                     | Iowa Veterinary Medical<br>Assn. Convention,<br>Des Moines, IA              |
| 1997 | Feedlot Nutrition and Management                    | Two-Day Shortcourse for<br>Moyer<br>Packing-Buying Division,<br>Wooster, OH |
| 1998 | How do you Analyze Carcass Data                     | Bi-State Seedstock Seminar<br>Moline, IL                                    |
| 1998 | Breakeven Analysis                                  | ICA Feedlot Summit<br>Ames, IA  |
| 1998 | Feedbunk and Intake Management                      | Elanco Seminar Series<br>Sioux Center, Arcadia and<br>Amana, IA             |
| 1998 | Value Based Marketing for Feedlots                  | Iowa Veterinary Medicine<br>Assn., Ames, IA                                 |
| 1998 | Feedlot Monitoring Training Session                 | Kent Feeds<br>Ames, IA  |
| 1999 | Preparing for Value Based Marketing                 | Select Sires Seminar,<br>Montour, IA  |
| 1999 | Byproduct Feeding                                   | CHIPS Training Seminar<br>Creston, IA                                       |
| 1999 | Monitoring Feedlot Performance                      | SDSU Feedlot Shortcourse<br>Brookings, SD                                   |
| 1999 | Grid Marketing Feedlot Cattle                       | Tri State Beef Days<br>Platteville, WI and<br>Decorah, IA                   |

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| 2000 | Growth Promotants for Cattle                        | Iowa Veterinary Medical Assn.<br>Ames, IA  |
| 2000 | Data Management for Feedlots                        | SDSU Feedlot Shortcourse<br>Brookings, SD  |
| 2001 | Distillers Coproducts for Finishing Cattle          | Ethanol Coproducts for<br>Livestock—Iowa Dept. of Ag.<br>ICN Conference<br>Des Moines, IA  |
| 2001 | Feeding MGA to Mixed Sex Pens<br>of Feedlot Cattle  | Dekalb Feeds Training Session<br>Ames, IA  |
| 2002 | Formulating Diets for Customer<br>Cattle            | Pennsylvania Custom Feeding<br>Conference, Mt. Joy, PA                                     |
| 2002 | Feedlot Data Management                             | SDSU Feedlot Shortcourse<br>Brookings, SD  |
| 2002 | Nutritional Management of the<br>Stressed Calves    | Bovine Practitioners (AABP),<br>Madison, WI  |
| 2002 | Getting the Stressed Calf Started<br>Right          | Farmland/Land O Lakes<br>Technical Training<br>Des Moines, IA                              |
| 2003 | Nutritional Management of the<br>Calf after Weaning | Four State Beef Conference,<br>Clay Center, KS; St. Joseph,<br>MO; Lewis, IA; Tecunseh, NE |
| 2003 | Implant Protocols and Schedules                     | Iowa Veterinary Medical Assn.<br>Winter Conference, Ames, IA                               |
| 2003 | Ethanol Coproducts for Beef Cattle                  | Cow Calf Conference,<br>Ottumwa, IA  |
| 2003 | Data Management and County<br>of Origin Labeling    | South Dakota State University<br>Feedlot Shortcourse,<br>Brookings, SD                     |
| 2003 | Why not feed cattle in Missouri?                    | Missouri Livestock<br>Symposium, Kirksville, MO  |
| 2004 | Feeding strategies to obtain                        | Michigan Feedlot Conference,   |



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|      | predictable performance   | East Lansing, MI   |
| 2004 | Monitoring Feedlot Performance  | Michigan Feedlot Conference,<br>East Lansing MI  |
| 2004 | Data Management and Animal Identification   | South Dakota State University<br>Feedlot Shortcourse,<br>Brookings, SD   |
| 2004 | Feedlot Management for Animal Comfort   | South Dakota State University<br>Feedlot Shortcourse,<br>Brookings, SD   |
| 2004 | Sorting management with Optaflexx in Midwestern feedlots  | Elanco-University Exchange<br>Seminar, San Antonio, TX   |
| 2004 | Factors affecting the value of distillers grains for livestock  | National Distillers Grains<br>Marketing Conference, West<br>Des Moines, IA   |
| 2005 | Effect of corn processing on performance of feedlot cattle  | New York Feeders Conference,<br>Corning, NY  |
| 2005 | Using performance records to improve Performance of the cow herd  | New York Winter Beef<br>Management Conference,<br>Corning, NY  |
| 2005 | Management strategies to reduce N and P in manure   | Great Lakes Professional<br>Feeding and Management<br>School. Dekalb, IL, Lansing,<br>MI, Bowling Green, OH and<br>Wyoming, Ont., CANADA |
| 2005 | Feedbunk management   | Great Lakes Professional<br>Feeding and Management<br>School. Dekalb, IL, Lansing,<br>MI, Bowling Green, OH and<br>Wyoming, Ont., CANADA |
| 2005 | Beef Nutrition via the BRANDS software package  | IVMA Annual meeting,<br>Ames, IA   |
| 2005 | International Livestock Congress Traceability and its effect on the Global beef industry: Communication Cluster group | Houston, TX  |

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| 2006 | Data management  | South Dakota State University<br>Shortcourse, Brookings, SD                       |
| 2006 | Feedlot Monitoring   | QLF Nutritionist Training<br>Sioux Falls, SD                                      |
| 2006 | Ethanol Coproducts for the<br>Livestock Industry                         | Farm Bureau Market Activity<br>Nevada, IA; Clear Lake, IA                         |
| 2006 | Health and performance of<br>feedlot cattle                              | Tristate Beef Days,<br>Prairie du Chen, WI  |
| 2007 | Distillers grains for Livestock  | Farm Credit Service<br>Agriculture Conference,<br>Manchester, IA                  |
| 2007 | Distillers grains for Beef Cattle  | Iowa Veterinary Medical Assn.<br>Ames, IA   |
| 2007 | Corn Co products for Beef Cows   | Mississippi Valley Beef<br>Conference, Fort Dodge<br>Animal Health<br>Dubuque, IA |
| 2007 | Ethanol Co products for Cattle   | VeriSun Energy Conference<br>Mason City, IA                                       |
| 2007 | Nutritional Value of Corn Co Products<br>for Livestock                   | Iowa Renewable Fuels Assn.<br>Distillers Conference,<br>Ames, IA                  |
| 2007 | Feeding Cattle in a High Cost Feed<br>Environment—Nutritional Management | Colorado Nutrition Roundtable,<br>Laramie, WY                                     |
| 2007 | Feeding Ethanol By-products; Production<br>and Health Concerns           | Bayer Animal Health Feedlot<br>Advisory Council<br>Scottsdale, AZ                 |
| 2007 | Data Management and Cost Control in the<br>Feedlot                       | South Dakota State University<br>Feedlot Shortcourse,<br>Brookings, SD            |
| 2007 | Ethanol Co products: Overview and<br>Nutritional Issues                  | Iowa Legislature—Ethanol<br>Study Committee,<br>Des Moines, IA                    |

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| 2008 | Cost Control in the Feedlot   | Iowa Cattleman's Association Annual Meeting, Ames, IA                                |
| 2008 | Implant Systems for Quality Markets   | Tri-State Beef Days<br>Prairie du Chen, WI and<br>Waukon, IA                         |
| 2008 | Wet Distillers' Storage Research in Iowa                                    | Co-product Storage and Utilization Conference, Mead, NE                              |
| 2009 | New Strategies in Feeding Cattle  | Tri State Beef Days<br>Prairie du Chen, WI and<br>Waukon, IA                         |
| 2009 | Feeding Corn Processing and Ethanol Co-products on the Ranch                | Washington State University<br>Beef Information Series<br>(distance presentation)    |
| 2009 | How to Control Costs and Maximize Profit in Feedlot and Cow-calf Operations | Iowa Veterinary Medical Association Winter Conference<br>Ames, IA                    |
| 2009 | Farm Visit Biosecurity Issues   | National Comprehensive Nutrient Management Plan Development Course<br>Des Moines, IA |
| 2009 | Ruminant Animal Feed Management Issues                                      | National Comprehensive Nutrient Management Plan Development Course<br>Des Moines, IA |
| 2009 | Distillers Grains Storage   | NCR-87 Cow-Calf Research Committee Meeting<br>Ames, IA                               |
| 2010 | Supplementing Beef Rations with Byproducts                                  | West Virginia Extension Series<br>Statewide in three locations                       |
| 2010 | Basic Beef Nutrition  | Iowa National Guard Unit<br>Des Moines and Ames, IA                                  |

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| 2010 | Iowa Beef Center Overview   | Land O' Lakes/Purina Professional Development, Ames, IA               |
| 2011 | Sulfur and Distillers Grains  | Nebraska Feedlot Roundtables West Point, Lexington and Bridgeport, NE |
| 2011 | Feeding Strategies for Coping with High Commodity Prices                        | New Era in Cattle Feeding Dekalb, IL                                  |
| 2011 | Management of High Levels of Distillers Grains in Feedlot Cattle Diets          | Academy of Veterinary Consultants, Colorado Springs, CO               |
| 2011 | Nutritional Management and Long Term Storage of Distillers Grains for Beef Cows | Academy of Veterinary Consultants, Colorado Springs, CO               |
| 2011 | Future of Iowa Cattle Feeding   | Iowa Young Cattle Producers Council, Ames, IA (Skype Presentation)    |
| 2011 | USDA Grants Focusing on Difficult but Important Traits (Feed Efficiency)        | National Beef Cattle Evaluation Consortium Brown Bagger (Webinar)     |
| 2011 | Stacking the deck for high feed costs   | Iowa Cattlemen's Association Convention Info/Expo Des Moines, IA      |
| 2012 | Managing High Feed Costs in the Feedlot   | Cattle Feeders Day University of Illinois Dixon, IL                   |
| 2012 | Managing Costs in Cow Herds   | Beef Health Forum Huston Vet Clinic Roseville, IL                     |
| 2012 | Controlling Beef Cow Herd Costs   | LOL/Purina Consultants Update Carroll, IA                             |
| 2012 | Improving Feed Utilization  | Husker Nutrition Conference Mead, NE                                  |

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| 2012 | Managing Feed Shrink   | UNL Beef Webinar Series<br>Lincoln, NE   |
| 2012 | Utilizing Feed Effectively in Feedlots   | Iowa Cattlemen's Convention<br>Cattlemen's College<br>Des Moines, IA               |
| 2013 | Drought Year Feed Options for Cow Herds  | Cornbelt Cow-calf Conference<br>Ottumwa, IA  |
| 2013 | Comparison of Housing Systems for Feedlot Cattle                               | Driftless Region Beef Conf.<br>Dubuque, IA   |
| 2013 | National Program for the Genetic Improvement of Feed Efficiency In Beef Cattle | Driftless Region Beef Conf.<br>Dubuque, IA   |
| 2013 | Genetics of Feed Efficiency  | 4-State Beef Conference<br>Seneca, KS  |
| 2013 | Iowa's Small Feedlot Plan  | National Cattlemen's Beef Association Environmental Working Group<br>Nashville, TN |
| 2013 | Beef cutout value determination  | US Feed Professional Development<br>Ames, IA                                       |
| 2013 | Ruminant Feed Management   | NRCS TSP Training<br>Ames, IA  |
| 2013 | Cattle Performance in Hoop Barns   | Four State Beef Feedlot Housing Conference<br>Sioux Falls, SD                      |
| 2013 | Cattle Performance and Comfort under Different Environmental Conditions        | Phibro Symposium<br>Ribeiro Preta, Brazil  |
| 2013 | Buildings and Structures for Containment to suit Different Climatic Conditions | Phibro Symposium<br>Ribeiro Preta, Brazil  |

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| 2013 | Economic Evaluation of Different Types of Buildings on the Outcome of Finishing Beef Cattle | Phibro Symposium<br>Ribeiro Preta, Brazil  |
| 2014 | Cattle Lifecycle Overview   | Iowa Culinary Institute<br>Ames, IA  |
| 2014 | Understanding Carcass Value   | US Feeds/Lime Springs Beef<br>Riceville, IA                                      |
| 2014 | Least-cost Feedlot Rations/Feeding Cattle Indoors vs. Outdoors                              | Illinois Feedlot Conference<br>Dixon, IL   |
| 2014 | How to Plan Investments in Finishing Cattle   | International Conference of Cattle Feeders<br>(INTERCONF2014)<br>Goiania, Brazil |
| 2015 | Algae Meal Product- a Novel Feed Product for Beef Cattle                                    | 10th Feedlot Meeting -, Coan Consultoria, Ribeirao Preto, Brazil                 |
| 2015 | Feeding Holstein Steers   | UNL Feedlot Roundtables, Bridgeport, Lexington and West Point, NE                |
| 2015 | Iowa Beef Industry  | Iowa Cattleman's Association<br>Legislative Day, Amana, IA                       |
| 2016 | Changing Distillers Grains  | UNL Feedlot Roundtables, Bridgeport, Lexington and West Point, NE                |
| 2016 | Testing for Silage Quality  | UNL/ISU Silage Conference, Mead, NE  |
| 2016 | Feedlot Facilities and Cattle Comfort   | SDSU Feedlot Short Course, Brookings, SD   |
| 2016 | Data Management in the Feedlot  | SDSU Feedlot Short Course<br>Brookings, SD                                       |
| 2016 | Receiving Cattle Nutrition  | Merck Young Veterinarians Conference, Moravia, IA                                |
| 2016 | Preventing Nutritional Problems in the  | Merck Young Veterinarians  |

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|      | Feedlot  | Conference, Moravia, IA  |
| 2017 | Corn Distillers Grains in US Feedlots          | VIII Congress on Forage Conservation and Quality, INTA, Cordoba, Argentina |
| 2017 | Feed Management                                | Merck Technical Update, Humboldt, IA                                       |
| 2017 | Current Topics in Feedlot Nutrition            | Interstate Veterinary Conference, South Sioux City, NE                     |
| 2017 | Economic Importance of Iowa's Beef Industry    | Iowa Cattle Industry Leadership Conference, Ames, IA                       |
| 2018 | Characteristics of Silage Use in Iowa Feedlots | University of Nebraska Silage Conference Mead, NE                          |
| 2018 | Beef Housing Systems                           | Executive Veterinary Program Nutrition Solving for Vets Olathe, KS         |
| 2018 | Feed Bunk Management                           | South Dakota State University Feedlot Short Course Brookings, SD           |
| 2018 | Benchmarking Feedlot Performance               | South Dakota State University Feedlot Short Course Brookings, SD           |
| 2018 | Feedlot Facility Design and Management         | Northern States Beef Conference Watertown, SD                              |
| 2019 | Economic Importance of Iowa's Beef Industry    | Soil Management and Land Use Evaluation Conference Ames, IA                |
| 2019 | Relationship Between Marbling and Reproduction | American Angus Association Convention Reno, NV                             |