

CURRICULUM VITAE

University of Idaho

NAME: Richard John Norell
RANK OR TITLE: Extension Professor

DATE: January 1, 2018

DEPARTMENT: Animal and Veterinary Science

OFFICE LOCATION AND CAMPUS ZIP:

Idaho Falls Research and Extension Center
1776 Science Center Drive, Suite 205
Idaho Falls, ID 83402

OFFICE PHONE: 208 529-8376

FAX: 208-522-2954

EMAIL: rnorell@uidaho.edu

WEB:

DATE OF FIRST EMPLOYMENT AT UI: August 1, 1982

DATE OF TENURE: (Year or untenured) July 1, 1988

DATE OF PRESENT RANK OR TITLE: July 1, 1995

EDUCATION BEYOND HIGH SCHOOL:

Degrees: (List most recent degree first: Degree, institution name, city, state, date, major or area of specialization.)

Ph.D., University of Minnesota, St. Paul, MN, 1983, Animal Science

M.S., University of Minnesota, St. Paul, MN, 1978, Animal Science

B.S., University of Minnesota, St. Paul, MN, 1976, Animal Science

Certificates and Licenses:

Milking System Evaluation, Universal Milking Equipment, 1976

Stray Voltage Evaluation, Michigan State University, 2005

Dairy safety certification, New Mexico State University, 2016

EXPERIENCE:

Teaching, Extension and Research Appointments: (List position titles and locations since receipt of Bachelor's degree)

Extension Dairy Specialist, District IV, August 1982-present

Graduate Research Assistant, University of Minnesota, 1976-82

Academic Administrative Appointments: (List position titles and locations since receipt of Bachelor's degree)

Non-Academic Employment including Armed Forces: (List title, brief description, date)

Consulting: (List company/institute name, title, brief description, date)

TEACHING ACCOMPLISHMENTS: (Academic and Extension teaching)

Areas of Specialization:

Courses Taught: (title, course number, date(s))

Students Advised:

Undergraduate Students: (advised to completion of degree, number per year)

Graduate Students:

Advised to completion of degree-major professor (student name, degree, and date)

Served on graduate committee (student name, degree, and date)

Materials Developed: (non-scholarship activity)

Courses Developed:

Non-credit Classes, Workshops, Seminars, Invited Lectures, etc.:

Honors and Awards:

SCHOLARSHIP ACCOMPLISHMENTS: (Including scholarship of teaching and learning, artistic creativity, discovery, and application/integration)

Publications, Exhibitions, Performances, Recitals:

Refereed/Adjudicated: (i.e. books, book chaps., journals, proc., abstr., etc.; provide citations-author, date, title, publisher)

Moore, A., S. Hines, B. Brown, C. Falen, M. de Haro Marti, M. Chahine, **R. Norell**, J. Ippolito, S. Parkinson, and M. Satterwhite. 2014. Soil-plant interactions on manure enriched calcareous soils. *Agronomy Journal*. 106:73-80.

Norell, R. J., S. Hines, M. Chahine, T. E. Fife, M. E. de Haro Marti, and S. C. Parkinson. 2013. Measuring corn silage density across Southern Idaho using three different methods. *Journal of Extension* 51(5) 5RIB9.

Hines, S., A. Moore, B. Brown, M. Chahine, **R. Norell**, M. de Haro Marti, C. Falen, T. Fife, S. Parkinson, and J. Ippolito. 2012. Using Extension phosphorus uptake research to improve Idaho's nutrient management planning program. *Journal of Extension* 50(5) SRIB10.

Peer Reviewed/Evaluated: (i.e. journals, articles, proceedings, abstracts, etc.)

Abstracts

Norell, R. J., J. Spencer, A. Ahmadzadeh, M. E. de Haro Marti, M. Chahine. 2017. Does a 500-ohm shunt resistor accurately characterize the electrical resistance of adult dairy cattle? *J Dairy Sci* 100: (E-Suppl. 2) p 297. (abstract)

Norell, R. J and B. Eborn. 2015. Participation in the 2015 Margin Protection Program by Idaho dairy producers. *J Dairy Sci* 98: E-Suppl.2 p 366.

Norell, R. J, J. B. Glaze Jr., M. Chahine, and N. L. Olsen. 2014. Evaluating on-farm methods for measuring dry matter content of potatoes. *J Dairy Sci* 97: E-Suppl.1 p 726. (abstract)

Norell, R. J, J. B. Glaze Jr., M. Chahine, and N. L. Olsen. 2014. Optimizing drying time of potatoes by food dehydrator and Koster Moisture Tester. *J Dairy Sci* 97: E-Suppl.1 p 727. (abstract)

Norell, R., C. Matuk, S. Hines, M. Chahine, M. de Haro Marti, and S. C. Parkinson. 2012. Measuring dry matter of corn silage, haylage, and TMR samples with a food dehydrator. *J Dairy Sci* 95: E-suppl.2 p 83. (abstract)

Norell, R. J., M. Chahine, and C. W. Gray. 2011. Risk management practices by Idaho dairy producers. *J Dairy Sci* 94: E-Suppl.1, p 100. (abstract)

Chahine, M. G. Shewmaker, **R. J. Norell**, and C. W. Gray. 2010. Impact of the 2009 economic crisis on Idaho dairies. *J Dairy Sci* 93: E-Suppl.1 p 610. (abstract)

Norell, R., M. Chahine, and M. E. de Haro Marti. 2009. TMR feeder schools in English and Spanish. *J Dairy Sci*. 92: E-suppl.1 p 416. (abstract)

- Fife, T., M. Chahine, S. Hines, M. de Haro Marti, **R. Norell** and S. Parkinson. 2009. Measuring corn silage density across southern Idaho using three different methods. NACCA annual meeting (abstract).
- Norell, R.**, M. Chahine, S. Hines, T. Fife, M. de Haro Marti, and S. Parkinson. 2008. Comparing three different methods for assessing corn silage density. J. Dairy Sci. 91(E-Suppl. 1):29. (abstract)
- Norell, R.**, M. Chahine, S. Hines, T. Fife, M. de Haro Marti, and S. Parkinson. 2008. Evaluating corn silage density tools. University of Idaho Extension Annual Conference. Boise, Idaho.

Factsheets

- Norell, R.**, B. Glaze, M. Chahine and N. Olsen. 2015. Methods for measuring dry matter content of potatoes on-farm. CIS 1219 Available on-line at:
<https://www.cals.uidaho.edu/edcomm/pdf/CIS/CIS1219.pdf>
- Painter, K. and **Norell, R.** 2015. Costs and returns for a 5000-Head Open Lot Holstein Dairy in southern Idaho. EBB-DT-14. Available on-line at:
<http://web.cals.uidaho.edu/idahoagbiz/files/2015/07/EBB-D5-14-50001.pdf>
- Painter, K. and **Norell, R.** 2015. Jersey dairy enterprise Annual 120-cow budget. EBB-D3-14. Available on-line at: http://web.cals.uidaho.edu/idahoagbiz/files/2015/06/EBB-D3-14_15June2015.pdf
- Painter, K. and **Norell, R.** 2015. Holstein dairy enterprise Annual 210-cow budget. Open lot. EBB-01-14. Available on-line at:
http://web.cals.uidaho.edu/idahoagbiz/files/2015/06/Dairy_EBB-D1-14_15June_final.pdf
- Painter, K. and **Norell, R.** 2015. Holstein dairy enterprise Annual 210-cow budget. Free stall. EBB-02-14. Available on-line at:
http://web.cals.uidaho.edu/idahoagbiz/files/2015/06/Dairy_EBB-D2-14_15June_final.pdf
- Painter, K. and **Norell, R.** 2015. Costs and returns for a 10,000 head heifer raising facility in southern Idaho. EBB-DR2-14. Available on-line at:
http://web.cals.uidaho.edu/idahoagbiz/files/2015/07/EBBDR_14_10000-hdHeiferRaisingFacility_9July2015_2.pdf
- Norell, R. J.** and M. Chahine. 2008. "Measuring dry matter concentration on the farm" Factsheet, DAIRxNet, http://www.extension.org/Materiales_en_espanol
- Norell, R. J.** and M. Chahine. 2008. "Developing a feeding SOP" Factsheet, DAIRxNet, http://www.extension.org/Materiales_en_espanol
- Ahola, J., M. Chahine, J. B. Glaze, J. C. Dalton and **R. Norell**. 2008. Idaho Dairy Beef Quality Assurance. University of Idaho. 16 pages.
- Chahine, M. J. Ahola, J. B. Glaze, J. C. Dalton and **R. Norell**. 2008. Garantía de Calidad de Carne del Bovino Lechero. University of Idaho. 16 pages.

Other: (reports, proceedings, papers, citations and references, performances)

- Norell, R.** and Moore, A. 2016. Micro mineral excretion by dairy cattle. Proceedings Idaho Nutrient Management Conference. Vol 8:
- Norell, R.** 2016. Measuring dry matter of forages at harvest and at feeding. Idaho forage School
- Norell, R.** and Chahine, M. 2014. Impact of macro mineral nutrition (Na, K, Mg, Ca) of dairy cows on nutrient excretion. Proceedings Idaho Nutrient Management Conference. Vol 7: 23-32.
- Norell, R. J.**, J.B. Glaze, and J.F. Guenther. 2013. Feeding potatoes to beef and dairy cattle. Proceedings of the 2013 Winter Commodity Schools, Volume 45, Pages 83-94 .
- Norell, R. J.** 2012. Value of BMR corn silage in dairy rations. Proceedings of the Idaho Hay and Forage Conference pp 1-4.
- Norell, R. J.**, M. Chahine, and M. de Haro Marti. 2012. Designer manures: managing manure production and nutrient quality. Proceedings of the Idaho Nutrient Management

Conference Vol 6: 54-60.

- Moore, A., S Hines, B. Brown, M. de Haro Martí, C. Falen, M. Chahine, T. Fife, R. Norell, and J. Ippolito. 2010. Phosphorus removal by silage corn in southern Idaho. Nutrient Digest Newsletter (Spring issue)
- Norell, R. J.** 2010. Measuring manure application rates on the farm. Nutrient Digest Newsletter (Spring Issue)
- Chahine, M., G. Shewmaker, **R. J. Norell**, and C. W. Gray. 2010. How did the economic crisis affect practices on dairies in Idaho? Western Dairy News. April 2010 (10) Number: 10: W59-W60.
- Norell, R. J.** and W Gray. 2010 "Dairy producers face a difficult challenge in 2010" Preston Citizen, Dairy Month insert
- Norell, R. J.** 2010. Measuring manure application rates on the farm. Nutrient Digest Newsletter (Spring Issue)
- Norell, R. J.** 2010. Managing manure application rate. Proceedings of the Idaho Nutrient Management Conference. Volume 5: 13-16.
- Moore, A., S Hines, B. Brown, M. de Haro Martí, C. Falen, M. Chahine, T. Fife, **R. Norell**, and J. Ippolito. 2010. Phosphorus removal by silage corn in southern Idaho. Proceedings of the Idaho Nutrient Management Conference. Volume 5:26-31
- Norell, R. J.** 2010. Measuring manure application rates on the farm. Nutrient Digest Newsletter (Spring Issue)
- Hines, S., **R. J. Norell**, M. Chahine, T. E. Fife, M. E. de Haro Marti, and S. C. Parkinson. 2010. Measuring corn silage density across Southern Idaho using three different methods. Proceedings of the 2010 Idaho Alfalfa and Forage Conference. P 61-64
- Chahine, M. G. Shewmaker, **R. J. Norell**, and C. W. Gray. 2010. How dairies are surviving: Impact on forages. Proceedings of the 2010 Idaho Alfalfa and Forage Conference. P 15-17.
- Moore, A., S Hines, B. Brown, M. de Haro Martí, C. Falen, M. Chahine, T. Fife, **R. Norell**, and J. Ippolito. 2010. Phosphorus removal by silage corn in southern Idaho. Nutrient Digest (Spring issue)
- Norell, R** and C. Stallings. 2008. "Feeding Management to Control Phosphorus Excretion". Proceedings of Phosphorus Management Workshops.
- Norell, R. J.** 2008. Managing manure application rate. Proceedings of Phosphorus Management Workshops.
- Norell, R. J.** 2008. The feedbunk. Proceedings of TMR Mixing/Feeder School, University of Idaho, Preston
- Norell, R. J.** 2008. Mixer operation. Proceedings of TMR Mixing/Feeder School, University of Idaho, Preston
- Norell, R. J.** 2008. Measuring dry matter concentration on the farm. Proceedings of TMR Mixing/Feeder School, University of Idaho, Preston
- Norell, R. J.** 2008. Using Standard Operating Procedures in TMR management. Proceedings of TMR Mixing/Feeder School, University of Idaho, Preston

Refereed/Adjudicated (currently scheduled or submitted): (provide citations)

Peer Reviewed/Evaluated (currently scheduled or submitted):

- Norell, R.** and B. Glaze. 2014. Feeding cull potatoes to beef and dairy cattle. Proposed CIS (in-review).

Presentations and Other Creative Activities: (i.e. slide sets, web pages, video productions, etc., provide date and location)

International, National and Regional**2017**

- “Body condition scoring and reproductive performance”, ABS Global, Twin Falls, ID (5x)
- “Relationship between dairy housing, and reproductive performance”, ABS Global, Twin Falls, ID (5x)
- “Lameness and reproduction”, ABS Global, Twin Falls, ID (5x)
- “Heat stress and reproductive performance”, ABS Global, Twin Falls, ID (5x)
- “Trends in Idaho dairy facilities”, U of Alberta students, Burley, ID
- “Evaluating free stall and open lot facilities, U of Alberta students, Burley, ID
- “Does a 500 ohm resistor accurately represent the resistance of an Idaho dairy cow”, 2017 ADSA annual meeting, Pittsburg, PA
- “Alfalfa hay, what does the dairy nutritionist want?” 2017 Western Alfalfa and Forage Symposium. Reno, NV
- “Identifying problems with forage analysis” 2017 Western Alfalfa and Forage Symposium, Reno, NV

2016

- “Body condition scoring and reproductive performance”, ABS Global, Twin Falls, ID (7x)
- “Relationship between housing, and reproductive performance”, ABS Global, Twin Falls, ID (7x)
- “Lameness and reproduction”, ABS Global, Twin Falls, ID (7x)

2015

- “Participation in the 2015 Margin Protection Program by Idaho dairy producers”, 2015 ADSA/ASAS joint annual meeting, Orlando, FL
- “Body condition scoring and reproductive performance”, ABS Global, Twin Falls, ID (7x)
- “Relationship between housing, and reproductive performance”, ABS Global, Twin Falls, ID (7x)
- “Lameness and reproduction”, ABS Global, Twin Falls, ID (7x)

2014

- “Evaluating on-farm methods for measuring dry matter content of potatoes”, ADSA annual meeting, Kansas City, KS
- “Optimizing drying time of potatoes by food dehydrator and Koster Moisture Tester”, ADSA annual meeting, Kansas City, KS
- “Cow comfort on dairy operations”, Brazilian dairy producer tour, Twin Falls, ID
- “Body condition scoring and reproductive performance”, ABS Global, Twin Falls, ID (7x)
- “Relationship between housing, and reproductive performance”, ABS Global, Twin Falls, ID (7x)
- “Lameness and reproduction”, ABS Global, Twin Falls, ID (7x)
- “Heat stress and reproductive performance”, ABS Global, Twin Falls, ID (7x)

2012

- “Measuring dry matter of corn silage, haylage, and TMR samples with a food dehydrator.” ADSA annual meeting, Phoenix, AZ
- “Plans and activities of the Facilities Committee”, videoconference, DAIReXNET leadership committee

2011

- “Risk Management practices by Idaho dairy producers.” ADSA annual meeting, New Orleans, LA

2010

- “Impact of the 2009 economic crisis on Idaho dairies” ADSA annual meeting, Denver, CO

2009

- “TMR feeder schools in English and Spanish”. ADSA annual meeting, Montreal, QB, CA
- “Hoof care workshop in English and Spanish”. ADSA annual meeting, Montreal, QB, CA
- “Nutrient management”, Dexter Cattle Club National Meeting, Rupert, ID

"Feeding dairy cattle on pasture", Dexter Cattle Club National Meeting, Rupert, ID

2008

"Comparing three different methods for assessing corn silage density". ADSA Annual Meeting, Indianapolis, IN

"Factors affecting corn silage feeding value in dairy rations." 33rd Annual Fertilizer & Chemical Conference, Jackpot, NV

"What's new in corn silage management" 33rd Annual Fertilizer & Chemical Conference, Jackpot, NV

State and Local

2017

"Dairy extension activities in Idaho", Eastern Idaho Dairy Advisory Committee, Preston, ID

"Cow Comfort Lecture", Dairy Block, Senior Veterinary students from WSU, (2x)

"Current testing procedures for stray voltage", IDA meeting, Twin Falls, ID

"Evaluating electrical resistance of dairy cattle, a proposal", IDA meeting, Boise, ID

"Proposed electrical resistance research at U of I Dairy Center, IDA meeting, Twin Falls, ID

"Idaho Milk Quality Award", United Dairymen of Idaho Annual Meeting, Boise, ID

"Practical evaluation of dairy facilities", Middle Manager's Training, Twin Falls, ID

"Idaho dairy extension report", Departmental review, Moscow, ID

"How to calibrate a manure spreader", Dairy Field Day, Buhl, ID

"Overview of Idaho Dairy Extension", AVS Department review, Moscow

2016

"Trends in the Idaho Dairy Industry", Leadership Idaho Agriculture, Pocatello, ID

"Dairy extension activities in Idaho", Eastern Idaho Dairy Advisory Committee, Preston, ID

"Margin Protection Program resources", Eastern Idaho Dairy Advisory Committee meeting, Preston, ID

"Economics of robotic milking", Dairy Forum, Preston, ID

"Idaho participation in the Margin Protection Program", Dairy Forum, Preston, ID

"Western Dairy Management Conference Highlights", Dairy Forum, Preston, ID

"Dairy facility planning", AVS departmental seminar, Moscow, ID

"Cow Comfort Lecture", Dairy Block, Senior Veterinary students from Caine Center

"Facility Evaluation", Dairy Block, Senior Veterinary students from Caine Center

"Eastern Idaho Dairy Extension", IDA meeting, Twin Falls, ID

"Tips on giving a set of dairy reasons", Judging Contest, EISF, Blackfoot, ID

"Review of dairy skillathon components", Skillathon contest, EISF, Blackfoot, ID

"Idaho Milk Quality Award", United Dairymen of Idaho Annual Meeting, Boise, ID

"Idaho Dairy Industry (poster display)", Ag Day, BYU-Idaho, Rexburg, ID

"Dairy Extension Activities (poster display)", United Dairymen of Idaho Annual Meeting, Boise, ID

2015

"Trends in the Idaho Dairy Industry", Leadership Idaho Agriculture, Pocatello, ID

"Dairy extension activities in Idaho", Eastern Idaho Dairy Advisory Committee, Preston, ID

"Margin Protection Program resources", Eastern Idaho Dairy Advisory Committee meeting, Preston, ID

"Economics of robotic milking", Dairy Forum, Preston, ID

"Idaho participation in the Margin Protection Program", Dairy Forum, Preston, ID

"Western Dairy Management Conference Highlights", Dairy Forum, Preston, ID

"Dairy facility planning", AVS departmental seminar, Moscow, ID

"Cow Comfort Lecture", Dairy Block, Senior Veterinary students from Caine Center

"Facility Evaluation", Dairy Block, Senior Veterinary students from Caine Center

"Eastern Idaho Dairy Extension", IDA meeting, Twin Falls, ID

"Tips on giving a set of dairy reasons", Judging Contest, EISF, Blackfoot, ID

"Review of dairy skillathon components", Skillathon contest, EISF, Blackfoot, ID

"Idaho Milk Quality Award", United Dairymen of Idaho Annual Meeting, Boise, ID

"Idaho Dairy Industry display", Ag Day, BYU-Idaho, Rexburg, ID

"Dairy Extension Activities", United Dairymen of Idaho Annual Meeting, Boise, ID

2014

- “Idaho Milk Quality Award”, United Dairymen of Idaho Annual Meeting, Boise, ID
- “Dairy extension activities in Idaho”, Eastern Idaho Dairy Advisory Committee, Preston, ID
- “On-line tools for evaluating MPP options”, Eastern Idaho Dairy Advisory Committee meeting, Preston, ID
- “Impact of macro mineral nutrition of dairy cows on nutrient excretion”, Idaho Nutrient Management Conference, Twin Falls, ID
- “Calf care”, Animal Welfare Training, Preston, ID
- “10 Animal Care Guidelines”, Animal Welfare Training, Preston, ID
- “Evaluating teat condition”, Milker school, Preston, ID
- “Tips on giving a set of dairy reasons”, Judging Contest, EISF, Blackfoot, ID
- “Review of dairy skillathon components”, Skillathon, EISF, Blackfoot, ID (201
- “Idaho Dairy Industry”, Leadership Idaho Agriculture, Pocatello, ID (2014)

2013

- “Idaho Milk Quality Award”, United Dairymen of Idaho Annual Meeting, Boise, ID
- “Dairy extension activities in Idaho”, Eastern Idaho Dairy Advisory Committee meeting, Preston, ID
- “Feeding potatoes to dairy and beef cattle”, Idaho Potato School, Pocatello, ID
- “How to evaluate cow response ration changes”, Middle Manager’s course, Twin Falls, ID
- “Common feeds in Idaho dairy rations”, Middle Manager’s course, Twin Falls, ID
- “Cow comfort on dairies”, Dairy Block, Caine Center, Twin Falls, ID
- “Planning dairy facilities”, Dairy Block, Caine Center, Twin Falls, ID
- “How to body condition score dairy cows”, Middle Manager’s course, Twin Falls, ID
- “Body condition scoring and reproductive performance”, ABS Global, Twin Falls, ID (2x)
- “Cow comfort, lameness, and reproductive performance”, ABS Global, Twin Falls, ID (2x)
- “Heat stress and reproductive performance”, ABS Global, Twin Falls, ID (2x)
- “Animal welfare training from University of Idaho”, DFA producer meeting, Idaho Falls
- “UI/CSI worker certification program”, DFA producer meeting, Idaho Falls
- “Calf care”, Animal Welfare Training, Preston, ID
- “10 Animal Care Guidelines”, Animal Welfare Training, Preston, ID
- “UI/CSI worker certification program”, Eastern Idaho Dairy Advisory Committee meeting, Preston, ID

2012

- “Idaho Milk Quality Award”, United Dairymen of Idaho Annual Meeting, Boise, ID
- “Eastern Idaho Dairy Extension”, United Dairymen of Idaho Board, Twin Falls, ID
- “Preparing a bid for the Dairy Livestock Gross Margin program” LGM meetings, Idaho Falls and Preston
- “Managing TMR mixers”, Middle Manager’s course, Twin Falls, ID
- “Managing the feedbunk”, Middle Manager’s course, Twin Falls, ID
- “Idaho dairy industry”, Reed Dairy Day, Idaho Falls, ID
- “Considerations in forward contracting feed”, Eastern Idaho Dairy Forum, Preston, ID
- “High moisture corn as an alternative to steam flaked corn”, Eastern Idaho Dairy Forum, Preston, ID
- “Silage Management”, Eastern Idaho Forage School, Preston, ID
- “Value of BMR silage in dairy rations”, Idaho Hay and Forage Conference, Burley, ID
- “Designer manures”, Idaho Nutrient Management Conference, Jerome, ID
- “Cow Comfort on dairies Part 2: feedbunks, flooring, ventilation, parlors”, Middle Manager’s course, Twin Falls, ID
- “Cow Comfort on dairies Part 1: designing freestalls and drylots”, Middle Manager’s course, Twin Falls, ID
- “Dairy extension activities in Idaho”, Eastern Idaho Dairy Advisory Committee meeting, Preston, ID

2011

"Idaho dairy industry", Reed Dairy Day, Idaho Falls, ID
 "Giving oral reasons", Junior Dairy Show, EISF, Blackfoot
 "Sampling corn silage", Magic Valley Forage Harvest Field Day, Filer, ID
 "Silage quality and dairy performance", Magic Valley Forage Harvest Field Day, Filer, ID
 "Measuring silage dry matter with a dehydrator", Forage Field Day, Filer, ID
 "Benefits of BMR corn silage in dairy rations", Forage School, Preston, ID
 "Risk management practices by Idaho dairy producers", Dairy Forum, Preston, ID
 "How to quickly lower somatic cell counts", Dairy Forum, Preston, ID
 "Producer/lender relationships, lender panel", Dairy Forum, Preston, ID
 "Practical considerations when feeding dairy cows, guest lecture at BYU Idaho animal nutrition class, Rexburg
 "Dairy Extension Report", Eastern Idaho Dairy Planning Meeting

2010

"Idaho Dairy Extension Programs", IRC committee, Idaho Dairyman's Association
 "Effect of feeding zeolite on odor control and gas emissions of dairy manure". IRC committee, Idaho Dairyman's Association
 "Understanding the forecasting of milk prices using basis adjusted futures information and reducing risk with futures or LGM." IRC committee, Idaho Dairyman's Association
 "Measuring corn silage density across Southern Idaho using three different methods", Idaho Alfalfa and Forage Conference, Burley
 "Managing manure application rate", Idaho Nutrient Management Conference, Burley
 "Protecting your dairy margins", Eastern Idaho Winter Dairy Forum, Preston
 "Margin insurance plans", Eastern Idaho Winter Dairy Forum, Preston
 "Practical considerations when feeding dairy cows", guest lecture at BYU Idaho animal nutrition class, Rexburg
 "Dairy Extension Report", Eastern Idaho Dairy Planning Meeting

2009

"Managing land application of dairy manure", Phosphorus Management workshop, Preston, Burley, Jerome, Caldwell, ID
 "Current challenges in feeding management", guest lecture, BYU-Idaho, dairy management class. Rexburg
 "Highlights of Western Dairy Management Conference" Winter Dairy Forum, Preston<ID
 "Guidelines for feeding dairy heifers" 4-H Dairy Field Day, Blackfoot, ID
 "Body condition scoring dairy heifers" 4-H Dairy Field Day, Blackfoot, ID
 "Dairy Extension Efforts in Idaho", IDA, Industry Relations Committee, Twin Falls
 "The Idaho Dairy Industry", Reed's Dairy Day, Idaho Falls, ID

2008

"Managing manure application rates and sampling dairy manure" Phosphorus Management Workshops, Preston, Burley, Jerome, Caldwell
 "Feeding management to reduce phosphorus excretion", 2008 Idaho Nutrient Management Conference, Jerome, ID
 "Current challenges in feeding management", guest lecture, BYU-Idaho, dairy management class. Rexburg
 "Guidelines for feeding dairy heifers" 4-H Dairy Field Day, Idaho Falls
 "Body condition scoring dairy heifers" 4-H Dairy Field Day, Idaho Falls
 "Mixer operation", TMR Mixing/Feeding School (Spanish version), Preston, ID
 "The feedbunk", TMR Mixing/Feeding School (Spanish version), Preston, ID
 "Mixer Operation", TMR Mixing/Feeding School (English version), Preston, ID
 "The feedbunk", TMR Mixing/Feeding School (English version), Preston, ID
 "Comparing alternative covers for corn silage bunkers and piles", Eastern Idaho Forage School, Preston, ID
 "Silage additives for corn silage and alfalfa haylage", Eastern Idaho Forage School, Preston, ID
 "Dairy extension projects in eastern Idaho", Winter Dairy Forum, Preston, ID
 "Cow comfort lecture", CVTC, Caldwell, ID
 "The Idaho Dairy Industry", Reed's Dairy Day, Idaho Falls, ID

Slide sets:

- “Body condition scoring and reproductive performance”, ABS Global training materials
- “Effect of facilities on reproductive performance”, ABS Global training materials
- “Effect of heat stress on reproductive performance”, ABS Global training materials
- “Calf care”, Dairy Animal Care workshops
- “Routine procedures”, Dairy Animal Care workshops
- “Cow comfort lecture, Senior veterinary students
- “Feedbunk management”, TMR feeder schools
- “Mixer operation”, TMR feeder school
- “Standard Operating Procedures”, TMR feeder school

Professional Meeting Papers, Workshops, Showings, Recitals: (provide date and location)**Patents:** (provide title/description, patent number and date)**Grants and Contracts Awarded:** (provide principal and co investigators, title, sponsor, funding dates, amount)

- Norell, R.** and A. Ahmadzadeh. 2017. Measuring electrical resistance of dairy cattle. Idaho Dairyman’s Association, \$23000
- De Haro-Marti, M, **R. Norell**, H. Neibling, and L Chen. Manure school: land application of manure and other organic amendments. U of I Topic Team award, \$5000
- Norell, R.** 2016, Eastern Idaho Dairy Extension, Idaho Dairyman’s Association, \$4000
- Norell, R.** 2015, Eastern Idaho Dairy Extension, Idaho Dairyman’s Association, \$5000
- Norell, R.**, M. Chahine, J. Dalton, M. de Haro Marti, S. Jensen, G. Brumbaugh, A. Hinds, J. England. 2015. Developing short videos for training dairy workers. Extension Topic Team grants, University of Idaho, \$3,750
- Norell, R.** 2014, Eastern Idaho Dairy Extension, Idaho Dairyman’s Association, \$5000
- Norell, R.** 2013, Eastern Idaho Dairy Extension. Idaho Dairyman’s Association, \$5000
- Chahine, M, C. Schneider, **R. Norell**, J. Dalton, M. de Haro-Marti, S. Jensen, B. Glaze, J. Hall, C. Gray, K. Kraich, and C. Matuk. 2013. Spanish and English Dairy Welfare Curriculum and Educational Materials. Extension Topic Team Grant. \$10,000
- Chahine, M., C. Schneider, **R. Norell**, J. Dalton, M. de Haro-Marti, S. Jensen, J. Hall, B. Glaze. 2013. Dairy Workers’ Top 10 Guidelines to improve Animal Welfare. United Dairymen of Idaho. \$6839.
- Norell, R.** 2012, Eastern Idaho Dairy Extension. Idaho Dairyman’s Association, \$3000
- Chahine, M., C. Schneider, **R. Norell**, J. Dalton, M. de Haro-Marti, S. Jensen, J. Hall, B. Glaze. 2012. Dairy Workers’ Top 10 Guidelines to improve Animal Welfare. Idaho Beef Council. \$6839.
- Chahine, M, J. Dalton, M de Haro Marti, Scott Jensen, **R Norell**, S. Etter and J Packham. 2011. Training for Hispanic Dairy Middle Managers, Extension Topic Team Grant.
- Dalton, J., **R. Norell**, and M. Chahine. 2011. Dairy Extension. Idaho Dairyman’s Association. \$10,000
- Dalton, J., **R. Norell**, and M. Chahine. 2010. Dairy Extension. Idaho Dairyman’s Association. \$10,000
- Dalton, J., **R. Norell**, and M. Chahine. 2009. Dairy Extension. Idaho Dairyman’s Association. \$8,000
- Dalton, J., **R. Norell**, and M. Chahine. 2008. Dairy Extension. Idaho Dairyman’s Association. \$10,000

Honors and Awards:

Friend of the Industry Award, United Dairymen of Idaho, 2015

SERVICE:

Major Committee Assignments: (National, State, District, County, University, College, Departmental and dates)

Regional/National/International

Chair, Facilities section, DairXnet national committee, 2007 to present
 Member, Applied Dairy Nutrition Award selection committee, ADSA, 2011 to 2014
 Member, Coordinating committee, Western Dairy Management Conference, 2009-2010, 2015-2016
 Member, Coordinating committee, Western Dairy News, 2009 to 2011

State

Chair, Idaho Milk Quality Award Selection Committee, United Dairymen of Idaho, 1989 to present
 Member, Idaho Dairy Hall of Fame Selection Committee, United Dairymen of Idaho, 2014
 Member, Dairy Farm Family Scholarship Committee, United Dairymen of Idaho, 2011 to present

University of Idaho - Departmental/District

Co-chair, Dairy Extension Topic Team, University of Idaho, 1995 to present
 Chair, Eastern Idaho Dairy Planning Committee, Eastern District, 1982 to present
 Member, Nutrient Management Topic team, University of Idaho
 Member, outstanding graduate student award, AVS, 2010 to present
 Chair, Promotion Committee (Stacy Doumit), AVS 2017
 Member, Promotion Committee (Jonathan Hogue), Eastern District, 2017
 Member, Selection Committee, Eastern Extension District Director, 2016
 Chair, Promotion Committee (Mireille Chahine), AVS, 2015
 Member, Promotion Committee (Ben Eborn), Eastern District, 2015
 Member, Third Year Review (Hogue), Eastern District, 2014
 Member, Department Head search committee, AVS, 2013
 Chair, Promotion Committee (Glaze), AVS, 2013
 Member, Promotion Committee (Sant, Hoffman, Cummins, Baker), Eastern District, 2013
 Chair, Promotion Committee (Dalton), AVS, 2012
 Member, Promotion Committee (Spencer, Williams), Eastern District, 2012
 Member, Cargill, scholarship committee, AVS, 2012
 Member, Extension Agricultural Engineer search committee, 2010
 Member, 3rd year review committee (Hoffman, Cummins), Eastern District, 2010
 Chair, Promotion Committee (Ahmadzadeh), AVS, 2009
 Chair, Promotion and Tenure Committee (Chahine), AVS, 2008
 Member, Dairy Nutrition position search, AVS, 2008
 Member, Extension Agricultural Engineer, District III, 2008
 Member, 3rd review committee (Erickson), District IV, 2008

Professional and Scholarly Organizations (including memberships, committee assignments, editorial services, offices held and dates)

American Dairy Science Association, member, 1976 to present
 National Mastitis Council, member, 1982 to present

Outreach Service: (Including popular press, interview articles, newspaper articles, workshops-seminars-tours organized, Extension impact statements)

Annual Dairy Forum, Preston, ID 1983 to present
 Annual Dairy Forum, Rexburg and Blackfoot, ID 1983 to 2003
 Idaho Nutrient Management conference (Planning committee) 2014, 2012, 2010, 2008
 Western Dairy Management conference (Planning committee) 2009
 Overview of Idaho Dairy Extension programs, UDI annual meeting, 1990 to present
 Test your dairy knowledge activities, BYU-Idaho AgDay, Rexburg 2012 to present
 Animal welfare workshop, Preston, ID 2013
 Ten Animal Care Guidelines (signs to hang in parlor), 2013

Milker school, Preston, ID 2013
Cow Comfort dairy tour, 2013, 2012, 2011
Middle Managers Training, Twin Falls, ID 2011, 2012, 2013
LGM training, Preston and Idaho Falls, ID 2012
TMR feeder schools, Preston and Wendell, ID 2009

Community Service: (non-academic unrelated to employment)

Honors and Awards: 2014 Friend of the Industry Award, United Dairymen of Idaho

PROFESSIONAL DEVELOPMENT: (workshops and seminars attended)

Teaching:

Scholarship: Bi-annual meeting, Western Dairy Management Conference, 1993 through 2013
Annual Meeting, American Dairy Science Association, 1982 to present

Outreach: Extension Annual Conference, 2009 to 2017

Administration/Management: