

Education

Ph.D., 1987, Agricultural Engineering, Cornell University, Ithaca, New York.

M.S., 1983, Agricultural Engineering, University of Wisconsin-Madison.

B.S., 1980, Agricultural Engineering, University of Wisconsin-Madison.

Work Experience

University of Wisconsin-Madison

Department of Biological Systems Engineering: Machine Milking and Rural Energy Issues, Research and Instruction, Professor and Chair 2013-present, Professor 2001–13, Associate Professor 1995-2001, Assistant Professor 1990-95:

Gaylord Nelson Institute for Environmental Studies: Land Resources Affiliate Faculty with graduate instruction privileges, 1998-present, Sustainability Certificate Faculty Committee 2013-present, Governance Faculty, 1998–2005, Energy Analysis and Policy Program, Chair 1998–2005 and affiliate 1998-present

Department of Dairy Science: Affiliate Professor with graduate instruction privileges, 2001–present

AgroEcology Program: Affiliate Professor with graduate instruction privileges, 2007-present

Center for Integrated Agricultural Systems: Affiliate faculty 2013-present

American Indian Studies Program: Affiliate Faculty 2016-present

RCG - Hagler-Bailly Inc., Washington, DC,

1988 – 1990, Senior Associate. Design and management of agricultural energy conservation programs for United States Agency for International Development technical assistance project in Islamabad, Pakistan.

Cornell University, Ithaca, New York, Agricultural and Biological Engineering Department
1987 - 1988. Research Support Specialist and Lecturer,

Cornell University, Ithaca, New York, Agricultural and Biological Engineering Department
1984 - 1987. Graduate Research and Teaching Assistant.

Rosebud Educational Society,

1980 - 1981, 1983 - 1984. Volunteer community and agricultural development work, Rosebud Sioux Reservation, South Dakota.

University of Wisconsin-Madison, Department of Agricultural Engineering.

1981-1983. Graduate Research Assistant,

Kast Rite Silo Company, Middleton, Wisconsin,

1979 - 1980. Design and construction of farm silo production machinery.

Honors and Awards

ASABE Honorable Mention Paper Award, top 5% published in 2005

Water, Feed and Milk Production Response of Dairy Cattle Exposed to Transient Currents.

ASAE National Food and Energy Award, 2001

ASAE IET Division Selected Paper Award, 2000

Pound Extension Award, 1998, Presented by UW College of Agriculture and Life Sciences

Young Engineer Award, 1998, Presented by the Wisconsin Section of the ASAE

Nominated for University of Wisconsin, Distinguished Professor, 1997

Educational Aids Blue Ribbon Award for Stray Voltage Educational Model, ASAE 1996

Gamma Sigma Delta, the Honor Society of Agriculture, Inducted 1995

Epsilon Sigma Phi, National Honorary Extension fraternity, Inducted 1993

Educational Aids Blue Ribbon Award for "Stray Voltage in Perspective" video, ASAE 1993.
 Graduated With Distinction, University of Wisconsin - Madison. 1980,
 Wunsch Foundation Materials Handling Design Competition, First Place Award, 1979, 1980.
 Lincoln Arc Welding Foundation Design Competition Award, 1979.
 Engineering Freshman Merit Award, 1976.
 National Honor Society of Secondary Schools, 1975.

University of Wisconsin Appointments and Committees

College of Agricultural and Life Sciences

Milking Research and Instruction Lab Development Committee, 1990-present
 Great Lakes Bio-Energy Research Center, Project Leader for Sustainability Thrust, 2006-2013.
 Green Cheese: Energy Intensity and Environmental Impact of integrated Dairy/Bio-Energy Systems in Wisconsin, Team Leader, 2008-present
 Wisconsin Institute for Sustainable Agriculture Steering Committee, 2009-2012

College of Engineering

The Energy Institute, Faculty affiliate, 2003-Present
 Energy Services Education and Research Committee, Founding Member, 1994-2003

UW Extension

Midwest Rural Energy Council, Executive Secretary, 1990-present
 Dairy, Bio-Energy and Energy Team Member, 1990-Present
 Center for Dairy Profitability, Member, 1990 – Present

Gaylord Institute for Environmental Studies

Sustainability Certificate Faculty Committee 2013-present
 Energy Analysis and Policy Program, Graduate Faculty member 1997-present, Chair 1997-2004

UW-Madison Campus

Graduate Faculty Executive committee 2006 - 2010
 GFEC reviewer for UW Statistics and Soil Science Departments
 Minority Student Mentor Program Volunteer, 1996

Professional Affiliations

ASABE, American Society of Agricultural and Biological Engineers, Member 1980-present

EOPD-210 Academic Program Administrators Committee, 2013-present

Nominating Committee, 2003 - 05

International Meeting Committee, Chair 2000

Information and Electrical Technologies Division (IET), Committee Membership

IET-441 Milk Handling Equipment, Member 90-present, Secretary 93-96, Chair 96-98, Past Chair 99-00

IET-433 Agricultural Wiring and Electrical Energy Applications, Member 90 - Present

IET-444 Energy Utilization Research, Member 1990-94, Secretary 1992, Vice Chair 1993, Chair 1994.

IET-01 Executive Committee, Secretary 1996, Vice Chair 97, Chair 98, Past Chair 99

IET-02 Steering Committee, Secretary 1996, Vice Chair 97, Chair 98, Past Chair 99

IET-06 Program Committee, Vice Chair 1996, Chair 97, Past Chair 98

IET-07 Forward Planning and Structure, Member 1999-Present

IET-40 Electrical Systems Group, Member 1996-Present, Group Leader 99

Structures and Environment Division (SE)

SE-414 Renewable Power Generation Committee, Member 2006-present

ASAE Institute of Biological Engineering, Charter Member, 1996
 International Dairy Federation, Standing Committee on Farm Management
 US Representative, 1997 – present, Chair 2003-05, Vice Chair 1999-2003
 Machine Milking Committee A32, US representative. 1997-99
 Action Team on Machine Milking, Chair 2003 - present
 National Mastitis Council, Member 1991-Present
 Machine Milking Committee, Chair 1999-02, Vice Chair 1996-99, Member 1996-02
 American Association for the Advancement of Science, Member
 American Solar Energy Society, Member
 Energy Center of Wisconsin, Research Advisory Council Member, 1994-Present
 Wisconsin Department of Agriculture Stray Voltage Advisory Board, Member 1991-2000
 Cornell University Ag. Engineering Graduate Student Organization, Chair, Co-Founder 1986

Courses Taught

BSE 367: Renewable Energy Systems – cross-listed with Institute for Environmental Studies 367;
 Agro-Ecology 875: Integral Ecology: Uniting Multiple Perspectives on the Natural World;
 BSE 875: Advanced Life Cycle Analysis Methods; Summer 2010 (25)
 BSE 875: Milking Machines: Graduate Level Course.
Stray Voltage Investigation: Introduction to, Measurement Methods, and Advanced Analysis professional development courses offered since 1991 in cooperation with UW Extension, The Midwest Rural Energy Council, Wisconsin Department of Agriculture Trade and Consumer Protection and the Wisconsin Public Service Commission.
Milking Machine Professional Development Courses: This series of courses has been offered through UW Extension since 1990. In 2006 an on-line curriculum was developed and we are in the process of establishing a network of international training centers for milking machine instruction.

Reviewed Journal Publications

58. Penry, JF, EL Endres, B de Bruijn, A. Kleinhans, PM Crump, DJ Reinemann, LL Hernandez, 2017. Effect of incomplete milking on milk production rate and composition with 2 daily milkings. *J. Dairy Sci.* 100:1535–1540
57. Penry, JF, J Upton, GA Mein, MD Rasmussen, I Ohnstad, PD Thompson, and DJ Reinemann, 2017. Estimating teat canal cross-sectional area to determine the effects of teat-end and mouthpiece chamber vacuum on teat congestion, *J. Dairy Sci.* 100:821–827
56. Cronin, KR, TM Runge, X Zhang, RC Izaurralde, DJ Reinemann and JC Sinistore, 2016. Spatially Explicit Life Cycle Analysis of Cellulosic Ethanol Production Scenarios in Southwestern Michigan, *BioEnergy Research*, doi:10.1007/s12155-016-9774-7
55. Upton J, DJ Reinemann, JF Penry, and PD Thompson, 2016. A quarter milking analysis device: development and demonstration. *Biosystems Engineering*, 147(2016)259-264.
54. Penry, JF, S Leonardi, J. Upton, PD Thompson and DJ Reinemann, 2016 Assessing liner performance using on-farm milk meters. *J. Dairy Sci.* 99(1-10)
53. Upton J, JF Penry, MD Rasmussen, PD Thompson and DJ Reinemann, 2016. Effect of pulsation rest phase duration on teat end congestion. *Journal of Dairy Science* 99:1-8.
52. Meier, PJ, KR Cronin, EA Frost, TM Runge, BE Dale, DJ Reinemann, and J Detlor, 2015. Potential for Electrified Vehicles to Contribute to U.S. Petroleum and Climate Goals and Implications for Advanced Biofuels. *Environ. Sci. Tech.* 49(14)8277-8286.
53. Leonardi, S, JF Penry, FM Tangorra, PD Thompson and DJ Reinemann, 2015. Methods of Estimating Liner Compression. *Journal of Dairy Science*, 98(10)6905-6912.

50. Aguirre-Villegas, H, R Larson and DJ Reinemann, 2015. Effects of management and co-digestion on life cycle emissions and energy from anaerobic digestion. *Greenhouse Gasses Science and Technology* 5:1-19(2015).
49. Sinistore, JC, DJ Reinemann, RC Izaurrealde, KR Cronin, PJ Meier, TM Runge & XS Zhang, 2015. Life Cycle Assessment of Switchgrass Cellulosic Ethanol Production in the Wisconsin and Michigan Agricultural Contexts. *Bioenerg. Res.* (2015) 8: 897. doi:10.1007/s12155-015-9611-4
48. Aguirre-Villegas, HA, TH Passos-Fonseca, DJ Reinemann, LE Armentano, MA Wattiaux, VE Cabrera, JM Norman, and R Larson, 2015. Green cheese: Partial life cycle assessment of greenhouse gas emissions and energy intensity of integrated dairy production and bioenergy systems. *J. Dairy Science*, 98(3)1571-92.
47. Aguirre-Villegas, HA, R Larson, DJ Reinemann, 2014. From waste-to-worth: energy, emissions, and nutrient implications of manure processing pathways. *Biofuels, Bioproducts and Bio-refining*, 8:770–793.
46. Romero, G, DJ Reinemann, M Alejandro & JR Diaz, 2014. Goat mastitis detection using daily records of milk conductivity: comparative results of different algorithms. *Czech J. Anim. Sci.*, 59, 2014(9)428–434
45. Buchanan, JH, and DJ Reinemann, 2013. Critical Realist Integral Methodological Pluralism for Interdisciplinary Research in Agro-ecology. *Journal of Integral Theory and Practice*, 8(3&4)317-325.
44. Kraatz, S, JC Sinistore, and DJ Reinemann, 2013. Energy intensity and global warming potential of corn grain ethanol production in Wisconsin (USA). *Food and Energy Security*, June 2013.
43. Reinemann DJ, 2012. Stray Voltage and Milk Quality: A Review. *Veterinary Clinics of North America, Food Animal Practice: Mastitis in Dairy Cows*, 28(2)321-345, P.L Ruegg, editor. Elsevier Inc.
42. Aguirre-Villegas HA, FX Milani, S Kraatz, DJ Reinemann, 2012. Life Cycle Impact Assessment and Allocation Methods Development for Cheese and Whey Processing. *Transactions of the ASABE* 55(2)1-15.
41. Pantoja, JCF, ACO Rodrigues, C Hulland, DJ Reinemann, and PL Ruegg, 2012. Investigating Contamination of Bulk Tank Milk with *Listeria monocytogenes* on a Dairy Farm. *Food Protection Trends* (2012): 512
40. Pantoja, JCF, GJM Rosa, DJ Reinemann, and PL Ruegg, 2012. Sampling Strategies for Total Bacterial Count of Unpasteurized Bulk Milk. *Journal of Dairy Science*, 95(5)2326-2247.
39. Pantoja, JCF, DJ Reinemann and PL Ruegg, 2011. Factors associated with coliform count in unpasteurized bulk milk. *Journal of Dairy Science* 94(6)2680-2691.
38. Kaufman AS, PJ Meier, JC Sinistore, DJ Reinemann, 2010. Applying life-cycle assessment to low carbon fuel standards—How allocation choices influence carbon intensity for renewable transportation fuels. *Energy Policy* 38(2010)5229–5241.
37. Reinemann, DJ and GA Mein, 2010. Review of milking biomechanics research. *Proc. 5th IDF Mastitis Conference: Mastitis Research into Practice*, JE Hillerton ed. New Zealand Veterinary Association for Continuing Education, Christchurch, NZ, pp 436-443.
37. Rasmussen, MD and DJ Reinemann, 2010. Milking Management. *Proc. 5th IDF Mastitis Conference: Mastitis Research into Practice*, JE Hillerton ed. New Zealand Veterinary Association for Continuing Education, Christchurch, NZ pp 74-82.
36. Kraatz, S, DJ Reinemann, WE Berg, 2009. Energy Inputs for Corn Production in Wisconsin and Germany. *Applied Engineering in Agriculture*, 25(5)653-662
35. Erdreich, L, A Dominik, M Wagner and DJ Reinemann, 2009. Meta-analysis of Stray Voltage on Dairy Cattle. *J. Dairy Sci.* 92 :5951–5963
34. Pantoja, JCF, DJ Reinemann, and PL Ruegg, 2009. Associations among milk quality indicators in raw bulk milk. *J. Dairy Sci.* 92 :4978–4987.
33. Bade, RD, DJ Reinemann, M Zucali, PL Ruegg, and PD Thompson, 2009. Interactions of vacuum, b-phase duration, and liner compression on milk flow rates in dairy cows. *J. Dairy Sci.* 92:913–921.

32. Brinker, JL, DJ Reinemann, LE Armentano, TR Fortenbery and MA Wattiaux, 2008. Biofuel Production Based on Dairy Consumption of DDGS and Soybean Meal in Wisconsin. *Biofuels, Food & Feed Tradeoffs*, PP. 106-109.
31. Helgren, JM, and DJ Reinemann, 2006. Survey of Milk Quality on U.S. Dairy Farms Utilizing Automatic Milking Systems. *Transactions of the ASABE*, 49(2)551- 556.
30. Reinemann, DJ, GA Mein, MD Rasmussen and PL Ruegg, 2005. Evaluating Milking Performance, *International Dairy Federation, Bulletin 396/2005*, Brussels, Belgium, 29 pp.
29. Reinemann, DJ, LE Stetson, NK Laughlin, 2005. Water, Feed and Milk Production Response of Dairy Cattle Exposed to Transient Currents. *Transactions of the ASABE* 48(1)385-392 (ASABE honorable mention paper award).
28. Reinemann, DJ, LE Stetson, and SD LeMire, 2004. Comparison of Dairy Cow Aversion to Continuous Versus Intermittent Voltage Exposure. *Transactions of the ASAE*, 47(4): 1257–1260.
27. Pellerin, L, DL Alumbaugh, DJ Reinemann, and PD Thompson, 2004. Power Line Induced Current In The Earth Determined By Magnetotelluric Techniques. *Applied Engineering in Agriculture*, Vol. 20(5): 703-706.
26. Mein, GA, DJ Reinemann, I Ohnstad and E O’Callaghan, 2004. 100 years with liners and pulsators: where the rubber meets the teat and what happens to milking characteristics. *Bulletin of the International Dairy Federation*, No 388, pp 28-34.
25. Costa, DA, and DJ Reinemann, 2004. The need for stimulation in various bovine breeds and other species. *Bulletin of the International Dairy Federation*, No. 388, pp 22-27.
24. Reinemann, DJ, GA Mein, DR Bray, D Reid and JS Britt, 2004. Troubleshooting Cleaning Problems in Milking Systems. *National Mastitis Council, Madison Wisconsin*.
23. Reinemann, DJ, and GMVH Wolters, P Billon, O Lind, and MD Rasmussen, 2003. Review of Practices For Cleaning And Sanitation Of Milking Machines. *Bulletin No. 381/2003*, pp. 4–48. *International Dairy Federation, Brussels, Belgium*.
22. Rasmussen, MD, DJ Reinemann and GA Mein, 2003. Measuring Vacuum in Milking Machines. *Bulletin No. 381/2003*, pp. 20-32. *International Dairy Federation, Brussels, Belgium*.
21. Reinemann, DJ, MC Wiltbank, LG Sheffield, MD Rasmussen and SD LeMire, 2003. Comparison of Behavioral and Physiological Response to Electric Shock in Lactating Dairy Cows. *Transactions of the ASAE*, 46(2)507-512.
20. Reinemann, DJ, MD Rasmussen and SD LeMire, 2002. Milking Performance Of Dairy Cows Subjected To Electrical Current And Induced Milking Machine Problems. *Transactions of ASAE* 45(3)833-838.
19. Billon, P, G Mein, L Innings, E O’Callaghan, and DJ Reinemann, 2002. Guidelines for Tests of the Flow Capacity of the Milking Unit. *International Dairy Federation, Bulletin number 370*, pp 20-21. *IDF-FIL, Brussels, Belgium*,
18. Ruegg, PL, and DJ Reinemann, 2002. Milk Quality and Mastitis Tests. *The Bovine Practitioner*, 36:41-54.
17. Reinemann DJ, MD Rasmussen and GA Mein, 2001. Instrument Requirements for measuring Vacuum changes in Milking Machines. *Transactions of the ASAE* 44(4)975-981.
16. Reinemann, DJ, LE Stetson, JP Riley, NK Laughlin, 1999. Dairy Cow Sensitivity to Short Duration Electrical Currents. *Transactions of the ASAE* 42(1)215-222.
15. Alfnes, T, L Innings, DJ Reinemann, E O’Callaghan, MD Rasmussen, O Ronningen, 1999. Instruments for Mechanical Tests of Milking Machines. *Bulletin No. 338/1999*, *International Dairy Federation, Brussels, Belgium*.
14. Reinemann, DJ, RW Peebles and GA Mein, 1997. Control Strategies for Milking Parlor Clean-In-Place Systems. *Transactions of the ASAE* 40(6)1749-1753
13. Reinemann, DJ, 1996. Technical Design and assessment of tube equipment using two-phase flow for cleaning and disinfecting. *Zbl. Hyg. International Journal of Hygiene and Environmental Medicine*. 199:355-365. *Gustav Fischer Verlag, Stuttgart, Germany*.
12. Tan, J, and DJ Reinemann, 1996. Frequency Characteristics and Propagation of Vacuum Fluctuations in

- Milking Systems. Transactions of the ASAE 39(4)1543-1547.
11. Reinemann, DJ, and GA Mein, 1995. Prediction of milklane Fill-Depth and Transition from Stratified to Slug Flow. Transactions of the ASAE 38(3)975-978.
 10. Reinemann, DJ, LE Stetson, N Laughlin, 1995. Response of dairy cattle to transient voltages and magnetic fields. IEEE Transactions on Industry Applications 31(4)708-714.
 9. Peebles, R, DJ Reinemann, and RJ Straub, 1994. Analysis of milking center energy use. Applied Engineering in Agriculture 10(6)831-839.
 8. Reinemann, DJ, and A Grasshoff, 1994. Two phase cleaning flow dynamics in air-injected milklines. Transactions of the ASAE 37(5)1531-1536.
 7. Reinemann, DJ, and GA Mein, 1994. Transition from stratified to slug flow in milklines. Transactions of the ASAE 37(2)655-660.
 6. Grasshoff, A and DJ Reinemann, 1993. Zur Reinigung von Milchsammelleitungen mit Hilfe einer 2-Phasen Stroemung. Kieler Mischwirtschaftliche Forschungsberichte 45:205-234.
 5. Reinemann, DJ, and A Grasshoff, 1993. Milkline cleaning dynamics: design guidelines and troubleshooting. Dairy, Food and Environmental Sanitation 13(8)462-467.
 4. Reinemann, DJ, M. Khalid, GF Kah, and GS Saqib, 1993. Irrigation Pumpset Efficiency in Developing Countries: Field Measurements in Pakistan. Applied Engineering In Agriculture 9(1)141-145.
 3. Reinemann, DJ, JY Parlange and MB Timmons, 1990. Theory of Small Diameter Airlift Pumps. International Journal of Multiphase Flow 16(1)113-122.
 2. Reinemann, DJ and M.B. Timmons, 1989. Predicting Oxygen Transfer and Total Dissolved Gas Pressure in Airlift Pumping. Aquacultural Engineering 8:29-46.
 1. Pimentel, D; Culliney, TW; Buttler, IW; Reinemann, DJ; Beckman, KB, 1989. Low-input sustainable agriculture using ecological management practices. Agriculture, Ecosystems & Environment 27(1-4)3-24

Patents

1. Denes FS, DJ Reinemann, SO Manolache and JM Helgren US Patent, 7,536,975 B2 Plasma-aided Disinfection of Milking Machines,

Books and Book Chapters

12. Reinemann, DJ, and MD Rasmussen, 2016. Milking Parlors. In: Fuquay JW, Fox PF and McSweeney PLH (eds.), Encyclopedia of Dairy Sciences, Third Edition, San Diego: Academic Press.
11. Mein, GA, and DJ Reinemann, 2014. Machine Milking: Volume 1. Amazon Books. 167 pp.
10. Reinemann, DJ, 2013. Milking Center Design. Chapter 5 in Dairy Freestall Housing and Equipment. MWPS-7, 8th Edition, BJ Holmes Editor, Midwest Pan Service, Ames, Iowa. pp 81-105.
9. Reinemann, DJ, 2013. Milking Machines and Milking Parlors. Chapter 7, pp 177-198: Handbook of Farm, Dairy, and Food Machinery, Second Edition. Myer Kutz, Ed., Academic Press an imprint of Elseviere, 735 pp.
8. Reinemann DJ and MD Rasmussen, 2011. Milking Parlors. In: Encyclopedia of Dairy Sciences, Second Edition, vol. 3, pp. 959–964. JW Fuquay, PF Fox and PLH McSweeney (eds.), San Diego: Academic Press
7. Reinemann, DJ, 2007. Stray Voltage. Guide for the Care and Use of Agricultural Animals in Agricultural Research and Teaching, Federation of Animal Science Societies.
6. Reinemann, DJ, 2007. Milking Machines and Milking Parlors, Chapter 7, pp 167-189: Handbook of Farm, Dairy, and Food Machinery. Myer Kutz, Ed., William Andrew Publishing, Norwich, NY, USA, 719 pp.
5. Reinemann, DJ 2004. Stray Voltage in Animal Housing. Merck Veterinary Manual. Merck & Co. Inc., Whitehouse Station, NJ, USA
4. Reinemann, DJ, 2002. Hygiene in Dairy Production and Processing. Encyclopedia of Dairy Science, Academic Press, London

3. Reinemann, DJ, 2002. Milking Parlours. Encyclopedia of Dairy Science, Academic Press, London.
2. Slaghuis, B, G Wolters, and DJ Reinemann, 2002. Milking and Handling of Raw Milk: Milking Hygiene. Encyclopedia of Dairy Science, Academic Press, London.
1. Pimentel, D, I. Buttler, T Culleney, DJ Reinemann, and K Beckman, 1989. Ecological Resource Management for a Productive, Sustainable Agriculture. Food and Natural Resources, D Pimentel and CW Hall Editors, Academic Press.

Reviewed Extension Publications and Videos

21. Reinemann, DJ, and J Heinzen, 2014. Wind Turbines and Farm Stray Voltage. University of Wisconsin-Extension Bulletin
20. Reinemann, DJ, and J Heinzen, 2014. How do Wind Turbines Generate Electricity? University of Wisconsin-Extension Bulletin
19. Aguirre-Villegas H, S Kraatz, F Milani, A Newenhouse, T Passos-Fonseca and DJ Reinemann, 2011. Understanding the Carbon Footprint of Cheese. University of Wisconsin Extension Bulletin 3934.
18. Reinemann, DJ, 2005. Planning To Upgrade Your Milking Facilities? Here Are Some Tips for Doing It Right. The University of Wisconsin, Babcock Institute, Dairy Update, Housing No. 703
17. Bolton, K, and DJ Reinemann, 2003. Tools to help you start your new milking parlor on the right foot. UW Extension bulletin.
16. Reinemann DJ, 2000. Milking Facilities for Transition and Special Needs Cows. On, Transition Dairy Management: A Key to Profitability, Four State Dairy Extension CD-ROM, © University of Illinois.
15. Ruegg, PL, Rasmussen, MD, and DJ Reinemann, 2000. The Seven Habits of Highly Successful Milking Routines. University of Wisconsin Extension, Bulletin A3725.
14. Reinemann DJ and Kammel DW, 1999. Y2K Readiness on the Farmstead: Electricity, Water Supply, and Heating. University of Wisconsin Extension, Electronic Bulletin.
13. Kammel DW, and DJ Reinemann, 1999. Y2K Readiness on the Farmstead: Farm Electronic Equipment. University of Wisconsin Extension, Electronic Bulletin
12. Reinemann, DJ, GA Mein, J Britt, D Reid, 1998, Troubleshooting High Bacteria Counts in Farm Milk. University of Wisconsin Extension, Bulletin A3705
11. Reinemann, DJ, 1996, Testing Cleaning Performance of Milking systems with a Vacuum Recorder. University of Wisconsin Extension, Bulletin A3649
10. Reinemann, DJ, and GA Mein, 1996. New Standards for Sizing Milklines. University of Wisconsin Extension, Bulletin A3648.
9. Reinemann, DJ, 1993. Stray Voltage Check Sheet: Steady State 60-Hertz AC Spot Check. University of Wisconsin Extension, Bulletin A3586.
8. Reinemann, DJ, 1994. Milking Parlor Design. Educational Video Produced by Purina Mills Inc., St Louis, Missouri.
7. Reinemann, DJ, 1993. Factor affecting milking parlor throughput. Educational Video published by the Dairy Management Institute, Waunakee, Wisconsin.
6. Reinemann, DJ, HK Bolton, J Chastain, 1993. From Pipelines to Parlors: Automated Flatbarn Milking Systems. Educational Video published by the University Of Wisconsin, Board of Regents.
5. Reinemann, DJ, 1993. Milking Center Advisor: Interactive software for estimating milking parlor performance and costs. University of Wisconsin Extension, Bulletin A3574.
4. Reinemann, DJ, SO Buffat, and others, 1992. Stray Voltage in Perspective. Educational Video published by the University of Wisconsin, Board of Regents.
3. Reinemann, DJ, HK Bolton, and BJ Holmes, 1992. Flatbarn Milking Systems. University of Wisconsin Extension, Bulletin A3567.
2. Reinemann, DJ and MB Timmons, 1989. AIRPUMP: Interactive Software for the Design of Airlift Pumping and Aeration Systems. NCS-3, Northeast Regional Agricultural Engineering Service, Cornell

University, Ithaca, New York. Also published as Cornell University Extension Bulletin No. 455.

1. Reinemann, DJ, and MB Timmons, 1989. FISHOUSE: Interactive Software for Modeling the Thermal Environment of Intensive Aquaculture Structures. NCS-35, Northeast Regional Agricultural Engineering Service, Ithaca, New York. Also published as Cornell University Extension Bulletin No. 456.

Technical Papers, Reports and Conference Proceedings

205. Penry, JF, J Upton, MD Rasmussen, I Ohnstad, PD Thompson and DJ Reinemann, 2016. Effects of teat-end vacuum and mouthpiece chamber vacuum on teat-end swelling. 6th IDF Mastitis Conference, Nantes France, 2016.
204. Hernandez, LL, VJ McKeon, EL Endres, A de Bruijn, A Kleinhans, and DJ Reinemann, 2016. Effects of increasing residual milk on milk yield and composition. *J. Animal Sci.*, Vol. 94, Supp. 5, pp. 407-408
203. Rasmussen, MD, A Dzidic, V Tancin, R Ginsberg, R Bruckmaier, DJ Reinemann, 2016. When should the cluster be detached for cows? 6th IDF Mastitis Conference, Nantes France, 2016
202. Penry, JF, PM Crump, J Upton and DJ Reinemann, 2016. Assessment of Changes in Quarter Milk Yield Ranking in Early Lactation. Proceedings of the 55th Annual Meeting of the National Mastitis Council (NMC).
201. Reinemann, DJ, 2015. Milking Machine Basics and Special Considerations for Small Ruminants, Proceedings of the Dairy Sheep Association for North America 21st annual symposium, Nov 5-7, Madison, WI,
200. Penry, JF, J Upton, and DJ Reinemann, 2015. Revisiting gentle milking: Concepts, new research and field application. Proceedings of the Countdown Symposium 2015, Dairy Australia. Melbourne Australia, Pgs 5-12.
199. Upton, J, JF Penry, PD Thompson, and DJ Reinemann, 2015. Development of Milking Research Techniques. Proceedings of Moorpark 15, Irish Dairying – Sustainable Expansion conference, Teagasc, Animal Grassland Research and Innovation Centre, Moorepark, Fermoy, Co. Cork Ireland. Pp 102-103.
198. Leonardi, S, JF Penry, F Tangorra, PD Thompson, and DJ Reinemann, 2015. Comparing Methods of Estimating Liner Compression. Proceedings of the Annual Meeting of the National Mastitis Council.
197. Penry, JF, S Leonardi, F Tangorra, PD Thompson, J Upton and DJ Reinemann, 2015. Using Average Milk Flow to Map Liner Performance. Proceedings of the Annual Meeting of the National Mastitis Council.
196. Reinemann, DJ, 2014. Sensor Technologies to Improve Productivity in Dairy Farms. Paper presented at ExpoLeche, 25 May 2014, San Marcos, Mexico
195. Reinemann, DJ and C Kamphuis, 2013. Managing Milk Quality in Automatic Milking Systems. Proceedings of the 2013 Precision Dairy Conference, Rochester, Minnesota
194. Barford, C, Reinemann, DJ, Gollnik, R and Narayana, A, 2013. Farm-Based Bioenergy Infrastructure for Wisconsin: Too Big, Too Little or Just Right? Report to the Public Service Commission of Wisconsin & the Statewide Energy Efficiency and Renewables Administration, Focus on Energy program, August 2013.
193. Mein, GA, DJ Reinemann, and PD Thompson, 2013. Understanding the Milking Machine: The Contribution of Cyclic Liner Compression To Effective Pulsation. Proceedings of the Annual meeting of the National Mastitis Council.
192. Reinemann, DJ, AMA Gomez, PE Thompson and I Ohnstad, 2013. Exploring the Role Of Liner Dimension, Shape, And Venting On Milking Performance. Proceedings of the Annual meeting of the National Mastitis Council.
191. Reinemann, DJ, 2012. The Smart Position on Stray Voltage. Paper Presented at the annual meeting of the New Zealand Milking Machine and pump testing organization, Hamilton, New Zealand. June 2012.
190. Reinemann, DJ, 2012. The Smart Position on Teat Condition. Proceedings of the New Zealand Milk Quality Conference, 18-19 June 2012, Hamilton New Zealand, published by the New Zealand Veterinary Association. pp 7.14.1 – 7.14.8.

189. Sinistore, J.C., and Reinemann, D.J. 2011. Beyond political boundaries: Ecological system boundary exploration of biomass production LCA for ethanol. Proceedings of the ACLCA LCA XI Conference. American Center for Life Cycle Assessment. In Press. Chicago, IL.
188. Aguirre-Villegas H, S Kraatz , F Milani, A Newenhouse, TH Passos-Fonseca and DJ Reinemann 2011. Understanding the Carbon Footprint of Cheese: Sustainable Cheese Production. Poster Presented at the UW Cooperative Extension ANRE Program Area Annual Meeting, October 26-28, Wisconsin Dells, WI.
187. Aguirre-Villegas, HA, S Kraatz, FX Milani, TH Passos-Fonseca, and DJ Reinemann, 2011. GHG Emissions and Energy Intensity of Cheese Manufacturing in Wisconsin. ASABE Paper No. 110984
186. Passos-Fonseca, TH, S Kraatz, HA Aguirre-Villegas, L Armentano, and DJ Reinemann, 2011. Variability and Uncertainty Analysis on a Life Cycle Assessment Case-study of Combined Dairy and Bio-fuels Production in Wisconsin. Paper No. 111499, presented at the 2011 ASABE Annual International Meeting.
185. Kraatz, S, DJ Reinemann, and JC Sinistore, 2011. Methods for Solving the Multifunctionality Problem in the Life Cycle Assessment of Ethanol Production from Corn Grain. Paper No. 1110828, presented at the 2011 ASABE Annual International Meeting.
184. Passos-Fonseca, TH, HA Aguirre-Villegas, S Kraatz, and DJ Reinemann, 2011. Effects of feeding wet distillers grains and of different manure handling practices on GHG emissions and energy intensity of dairy production. Poster presented at the 2011 Annual Meeting of the Institute of Biological Engineers
183. Pantoja, JCF, ACO Rodrigues, C Hulland, DJ Reinemann, and PL Ruegg, 2011. Investigating Contamination of Bulk Tank Milk with *Listeria monocytogenes* on a Dairy Farm. Poster Presented at the annual meeting of the ADSA.
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