

CURRICULUM VITAE

University of Idaho

NAME: de Haro Martí, Mario Emanuel

DATE: 31 October, 2018

RANK OR TITLE: Associate Professor, Extension Educator

DEPARTMENT: Central District Extension
College of Agricultural and Life Sciences

OFFICE LOCATION AND CAMPUS ZIP:
University of Idaho Extension, Gooding County
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DATE OF FIRST EMPLOYMENT AT UI: July 1, 2005

DATE OF TENURE: June 23, 2013

DATE OF PRESENT RANK OR TITLE: June 23, 2013

EDUCATION BEYOND HIGH SCHOOL:

Degrees:

Ph.D., 2018, Environmental Science, University of Idaho, Moscow, Idaho.
M.S., 2007, Environmental Science, University of Idaho, Moscow, Idaho.
B.S., 1996, Environmental Studies, National University of Comahue, Neuquén, Neuquén, Argentina.

Additional Coursework for Credit:

Certificates and Licenses:

Idaho Pesticide Professional Applicator License – Statewide Consultant, 2009-present.
American Heart Association. Heartsaver CPR AED Certification. 2016. 2014. 2012.
Animal Agriculture and Climate Change Certificate. 2013.
National Institutes of Health (NIH) Protecting Human Research Participants, Certificate, 2009.
Master Gardener. University of Idaho, 2009.
Soil Sampling Certification. Idaho State Department of Agriculture, 2008.
Environmental Contamination Assessment Certificate. University of Idaho, 2007.
First Class Commercial Single and Multiengine Instrument Airplane Pilot License,
(Argentina – ICAO).
Airplane and Glide Flight Instructor, (Argentina – ICAO).

LANGUAGES:

Spanish: Native language
English: Fluently spoken, written and read

EXPERIENCE:

Teaching, Extension and Research Appointments:

Associate Professor, Extension Educator, Dairy/Livestock Environmental Education. University of Idaho Extension, Gooding County Extension Office, Gooding, Idaho. 70% Extension Education, 15% Scholarship, 15% University Service and Leadership. June 23, 2013 – Present.
Assistant Professor, Extension Educator, Dairy/Livestock Environmental Education. University of Idaho Extension, Gooding County Extension Office, Gooding, Idaho. 80% Extension Education, 15% Scholarship, 5% Extramural Service. July 1, 2007 – June 22, 2013.

Teaching, Extension and Research Appointments (cont.)

Graduate Research Assistant. University of Idaho. Twin Falls R&E Center, Twin Falls, Idaho. July 1, 2005 – June 30, 2007.

Research Assistant and Teacher Assistant. National University of Comahue. Instituto Universitario en Ciencias para la Salud. Neuquén, Argentina. December 1, 1995 – August 30, 1996.

Academic Administrative Appointments:

University of Idaho Extension, Gooding County Chair 10%. March 2015 - Present.

Non-Academic Employment Including Armed Forces:

Technical Consultant in Charge. SEGECO (Industrial safety & health and environmental consultant services) Neuquén, Argentina. December 1, 2000 – August 30, 2001. Previously, Technical Consultant part time from October 1, 1996 to April 30, 1998.

High School Teacher. Provincial Education Board. Technical and Normal schools. Neuquén, Argentina. 1993 – 2001.

Chemical Analyst. ORFIVA (Concentrated apple juice producer). Neuquén, Argentina. February 1, 1991 – April 30, 1993.

Chief Pilot. Aires de Patagonia (Air Medical Evacuation and Air Taxi). Neuquén, Argentina. August 1997 – June 2000.

Flight Instructor. Neuquén Air Club. Neuquén, Argentina. December 1997 – October 2001.

Flight Instructor, Tow Pilot. Neuquén Gliding Club. Neuquén, Argentina. June 1998 – August 2001.

Pilot. Fly Center. Rincón de los Sauces, Neuquén, Argentina. April 1997 – April 1998.

TEACHING ACCOMPLISHMENTS:**Areas of Specialization:**

Environmental Sciences
Agricultural Nutrient and Waste Management
Agricultural Air Quality
Agricultural Pollution Prevention

Courses Taught:

Idaho Master Composter and Recycler, ED 405/505, Spring 2011.

Idaho Master Composter and Recycler, EDCI 405/505, Spring 2010.

Student Interns Advised:**Graduates:**

James Eells. M.S. Idaho Master Composter and Recycler Program Internship, AGED 498, 3 credits, Spring 2011. Ag Science Communications & Leadership, University of Idaho.

Undergraduates:

Jason Gonzalez. University of Idaho Extension Summer paid internship. Forty hours per week, ten weeks. 2018.

Rebecca Flick. University of Idaho Extension Summer paid internship. Forty hours per week, ten weeks each year. 2017, 2016.

Kenny Seegolam. Optional Internship, 4 credits, 25 hours volunteer internship, Fall 2015. College of Southern Idaho.

Glen Kade Gill. University of Idaho Extension Summer paid internship. Forty hours per week, ten weeks. 2015. AGED 498. University of Idaho. 4 Credits

Hernan Labra. Assisted with University of Idaho Extension internship. Fall 2014, 200 hours. University of Idaho.

Cara Pantone. University of Idaho Extension Summer paid internship. Forty hours per week, ten weeks. 2013. University of Idaho.

Student Interns Advised, Undergraduates (cont.)

Molly Orr. University of Idaho Extension Summer paid internship. Forty hours per week, ten weeks. Summer 2012.

Jennifer Votroubek. Concepts of Biology, BIOL 100, 4 credits, 15 hours volunteer internship, Fall 2011. College of Southern Idaho.

Other interns:

Emma Jeske. Gooding High School. Paid part time internship. September 2017-September 2018.

Emmanuel Toledano-Casillas. Jerome High School volunteer for credit internship. Summer 2014, 120 hours.

Katy Brown. Gooding High School volunteer for credit internship. Seven hours per week, from September 2013 to May 2014.

Materials Developed:**Workbooks, Manuals:**

Chahine, M., R. Norell, J. Dalton, **M.E. de Haro Martí**, K.S. Jensen, C. Matuk, C. Schneider, J.B. Glaze, G. Brumbaugh, J.B. Hall, J.J. England, and C.A. Hinds. 2013. Animal Care Certification workbook. (Spanish and English). University of Idaho Extension and College of Southern Idaho.

Chahine, M., **M.E. de Haro Martí**, and C. Matuk. 2012. Milker's Certification on Idaho Dairies workbook. (Spanish and English). University of Idaho Extension and College of Southern Idaho.

Chahine, M., Norell, R. J., and **M.E. de Haro Martí**. 2007. TMR-Mixing/dairy cows feeding handbook University of Idaho Extension. (English and Spanish).

Displays and Posters:

de Haro Martí, M.E. UI Nutrient and Waste Management, University of Idaho Extension activities display. Kimberly and Twin Falls R&E Centers' Twilight Tour. Kimberly, Idaho. July 2018, 2016, 2012, 2010, 2008.

de Haro Martí, M.E. University of Idaho Extension and Waste Management Display. Gooding County Fair. Gooding, Idaho. Yearly in August, 2018-2008.

de Haro Martí, M.E. and M. Chahine. From feed to milk, University of Idaho Extension Display.
 - 1000 Springs Festival. Hagerman, Idaho. September, 2008, 2009, 2011.
 - Idaho State Park Centennial. Hagerman, Idaho. July 12, 2008.
 - Jerome Historical Society. Jerome, Idaho. September, 2008, 2009, 2011.

de Haro Martí, M.E. 2008. University of Idaho Extension and Environmental Science Display. Earth Day at the Gooding Public Library. Gooding, Idaho. April 23, 2008.

de Haro Martí, M.E. 2007. Extension Education at the University of Idaho. Poster.

Powerpoint/Slide Presentations:

de Haro Martí, M.E. 2018. Basic concepts of dairy production and manure management in the Magic Valley.

de Haro Martí, M.E. 2018. Tractor operations and safety.

de Haro Martí, M.E. 2017. Compost, weeds, and herbicides: avoiding the cocktail.

de Haro Martí, M.E. 2017. On-farm composting for goat and sheep producers.

de Haro Martí, M.E. 2017. Application of manure and compost and the environment beyond the field.

de Haro Martí, M.E. 2017. Extreme weather and emergency planning consideration when applying manure.

de Haro Martí, M.E. 2017. Public relationships when handling and applying manure.

de Haro Martí, M.E. 2016. Nutrient and waste management for goat and sheep producers.

de Haro Martí, M.E. 2015. Using compost as another tool for Integrated Pest Management.

de Haro Martí, M.E. 2015. Animal mortality and butcher waste composting.

Powerpoint/Slide Presentations (cont.)

- de Haro Martí, M.E. 2015. Home composting in cold climates. Master Gardener Program.
- de Haro Martí, M.E., M. Chahine, T. McCammon, and A. Agenbroad. 2015. Composting of dairy manure and grape vine prunings as a tool to better manage both industries waste and reduce their environmental impact. Micro Manure Management Webinar. eXtension.org. Broadcasted May 22, 2015. Archived at <http://www.extension.org/pages/72987/micro-manure-management#.Vi-SAYu2LfU>.
- de Haro Martí, M.E. 2013. Animal Care de Haro Martí, M.E. 2013. Biosecurity for dairy farm workers. ABS Dairy Reproduction Program. (Spanish and English). University of Idaho Extension.
- Certification. (Spanish and English). University of Idaho Extension and College of Southern Idaho.
Unit 7: Worker and animal safety, emergency plan, and legal considerations.
Unit 3: Matuk, C. and M.E. de Haro Martí. The Basic Clinical Exam: Key to early identification of sick animals.
- de Haro Martí, M.E. 2013. Advanced Vermicomposting – Beyond raising worms and harvesting castings.
- de Haro Martí, M.E. 2013. Dairy Middle Management Round Table.
- Manure management on Idaho dairies. (Spanish and English)
- On-farm composting methods. (Spanish and English)
- de Haro Martí, M.E. 2012. Milker's Certification on Idaho Dairies. (Spanish and English). University of Idaho Extension and College of Southern Idaho.
Unit 1: Introduction to Idaho's dairy industry.
Unit 2: Pasteurized Milk Ordinance.
Unit 3: Dairy design and components of a dairy.
Unit 4: Milking equipment.
Unit 8: Workplace safety and biosecurity.
Unit 9: Milker's responsibilities.
- de Haro Martí, M.E. 2011. Home Composting – From waste management to gardening and food independence.
- de Haro Martí, M.E. 2011. Basics of Vermicomposting.
- de Haro Martí, M.E., M. Chahine, and C. Matuk. 2011. Biosecurity for Dairy Workers (Spanish and English). Protecting the Milk Supply Workshop Series .
- de Haro Martí, M.E., M. Chahine, and C. Matuk. 2011. Antibiotics Residue Avoidance (Spanish and English). Protecting the Milk Supply Workshop Series.
- Chahine, M. and **M.E. de Haro Martí**. 2011. Environmental Mastitis in Milking and Dual Purpose Cows (Spanish). Tropileche 2011. Villa Hermosa, Tabasco, México. March 9-12, 2011.
- de Haro Martí, M.E. 2010, 2011. Idaho Master Composter and Recycler Program.
MCR Guidelines.
Pollution Prevention Hierarchy.
Regulatory Framework and Using Information Resources.
Reduce Concepts and Examples.
Reducing Pollution and Examples.
Reuse Concepts and Examples.
Rain Water and Grey Water Systems.
Recycling Concepts and Examples.
Recycling Resources.
Waste Treatment and Disposal and Hazardous Materials.
Bad Recycling/Reusing – What Not to do.
Home Composting and General Concepts.
On-Farm and Municipal Composting.
Composting Resources.
Vermicomposting.
Black Soldier Fly and Other Alternative Treatments for Wastes.
Implementing Pollution Prevention Programs.
Community Action and Volunteer Opportunities.
- de Haro Martí, M.E. 2010. Environmental Considerations for Cow-calf and Other Beef Producers.

Powerpoint/Slide Presentations (cont.)

- Sheffield, R.E. and **M.E. de Haro Martí**. 2009. Odor Measurement Techniques. Western Odor and Air Quality Education Program.
- Sheffield, R.E. and **M.E. de Haro Martí**. 2009. Odor Best Management Practices. Western Odor and Air Quality Education Program.
- Chahine, M. and **M.E. de Haro Martí**. 2009. How to Reduce Milk Somatic Cell Counts on a Commercial Dairy: a Practical Example. Eurovacum Conference, Vic, Barcelona Spain. June 10-11, 2009.

Courses Developed:

- de Haro Martí, M.E. Idaho Master Composter and Recycler, ED 405/505, 1 Credit. Spring 2011.
- de Haro Martí, M.E. Idaho Master Composter and Recycler, EDCI 405/505, 1 Credit. Spring 2010.

Non-Credit Classes, Presentations, Workshops, Seminars, Invited Lectures, etc.:**Waste and Nutrient Management:****International**

- de Haro-Martí, M.E., M. Chahine, T. McCammon, and A. Agenbroad. 2015. Composting of dairy manure and grape vine prunings as a tool to better manage both industries waste and reduce their environmental impact. Micro Manure Management Webinar. eXtension.org. Broadcasted May 22, 2015. Archived at <http://www.extension.org/pages/72987/micro-manure-management#.Vi-SAYu2LfU>. *Invited presentation.*
- de Haro Martí, M.E. 2014. The importance of environmental care on dairy production units. (Spanish). Expoláctea. International Dairy Exposition. Aguas Calientes, Aqs, México, March 12-14, 2014. *Invited presentation.*

State

- de Haro Martí, M.E. 2018. Vermicomposting. Master Gardener Program. Twin Falls, ID. October 25, 2018.
- de Haro Martí, M.E. 2018. Basic concepts of dairy production and manure management in the Magic Valley. LRC 554 Studio Class. UI-CNR. Twin Falls, ID. September 8, 2018 *Invited presentation.*
- de Haro Martí, M.E. 2018. Ph.D. Dissertation. On-Farm use of Clinoptilolite Zeolite with Composting and Air Filtration Technologies to Control Ammonia Emissions, Odor, and Nitrogen Retention from Dairy Manure. Twin Falls, ID. April 19, 2018.
- de Haro Martí, M.E. 2017. Compost, weeds, and herbicides: avoiding the cocktail. Pesticide applicator recertification seminar. Burley, ID. December 13. Twin Falls, ID. December 14, 2017.
- de Haro Martí, M.E. 2017. Cover crops demo and proof of concept at Gooding Community Garden. Cover crops field day. Gooding, ID. October 23, 2017.
- de Haro Martí, M.E. 2017. On-farm composting for goat and sheep producers. Dairy goat and sheep workshop. Gooding, ID. July 25, 2017.
- de Haro Martí, M.E. 2017. Master Gardener Program.
- Rupert and Twin Falls, ID. January 25. Four presentations total.
- Home Composting.
 - Vermicomposting.
- de Haro Martí, M.E. 2016. Nutrient and waste management for sheep and goat producers. Dairy Goat and Sheep Workshop. Gooding, ID. July 15, 2016.
- de Haro Martí, M.E. 2016. Use of zeolites to retain nitrogen during composting treatment of dairy manure. Idaho Nutrient Management Conference. Jerome, ID. March 10, 2016.
- de Haro Martí, M.E. 2016. Master Gardener Program.

Waste and Nutrient Management, State (cont.)

- Burley, Idaho. February 17. Twin Falls and Gooding, ID. February 18, 2015.
 - Home Composting.
 - Vermicomposting.
- de Haro Martí, M.E. 2015. Ammonia and odor filtration from flushed dairy manure + solid separation by centrifuge + manure injection using a drag hose system field day. Buhl, ID. November 10, 2015.
 - Zeolite filter and its effect on ammonia and odor emissions reduction.
 - Dairy manure storage pond agitation using a floating pond and pump.
 - Dairy manure injection using a drag hose and injection system.
- de Haro Martí, M.E. 2015. Animal mortality and butcher waste composting. American Dairy Goat Association annual meeting. Boise, ID. October 14, 2015. *Invited presentation*. de Haro Martí, M.E. 2015. Composting at home. Extension at the Library Series. Gooding, Idaho. May 16, 2015.
- de Haro Martí, M.E. 2015. Master Gardener Program.
 - Home composting in cold climates. Hailey, Idaho. October 9, 2015.
 - Home Composting. Twin Falls, Idaho. March 24. Shoshone, Idaho. March 25, 2015.
 - Vermicomposting. Hailey, Idaho. October 9. Shoshone, Idaho. March 25. Twin Falls, Idaho. March 24, 2015.
- de Haro Martí, M.E. 2014. Urban Agriculture Workshops. Hailey, Idaho. October 23, 2014.
 - Home and Small Farm Composting
 - Vermicomposting
- de Haro Martí, M.E. 2014. Vermicomposting for youth. UI Extension at the Library program. Gooding, Idaho. June 20, 2014.
- de Haro Martí, M.E. 2014. Proactive Nitrogen Management in Idaho. Cassia County Ground Water Quality Advisory Committee. May 20, 2014.
- de Haro Martí, M.E. 2014. Composting of dairy manure and grape vine prunings using three different composting techniques. Idaho Nutrient Management Conference. Twin Falls, Idaho. March 6, 2014.
- de Haro Martí, M.E., A. Moore, R. Norell, and M. Chahine. 2014. Proactive nitrogen management in agriculture. Idaho Nutrient Management Conference. Twin Falls, Idaho. March 6, 2014.
- de Haro Martí, M.E. 2014. Master Gardener Program. Twin Falls, Idaho. February 4, 2014.
 - Home Composting.
 - Vermicomposting.
- de Haro Martí, M.E. 2014. Update on Yakima WA Nitrate Challenges. Middle Snake Regional Water Resource Commission. January 15, 2014.
- de Haro Martí, M.E. 2013. Composting of diversified agricultural wastes: how to match different wastes and composting techniques to improve your compost quality and reduce your operation's environmental footprint. Idaho Sustainable Ag Conference. Boise, Idaho. November 14, 2013.
- de Haro Martí, M.E. 2013. Home and Small Farm Composting. College of Southern Idaho Environmental Science BIOL 120. Gooding, Idaho. October 31, 2013.
- de Haro Martí, M.E. 2013. University of Idaho Extension Field Day. Emmett, Idaho. September 10, 2013.
 - Composting of grape vine prunings and dairy manure. How mixing wastes benefit producers.
 - Composting techniques - There are alternatives for you!
- de Haro Martí, M.E. 2013. Gooding High School Agricultural Technology. Gooding, Idaho.
 - Vermicomposting. May 14, 2013.
 - Home and Small Farm Composting. May 9, 2013.
- de Haro Martí, M.E. 2013. Idaho Master Composter and Recycler Program-Ignite session. University of Idaho President Sustainability Symposium. Via compressed video, Twin Falls, Caldwell, Moscow, and Coeur d'Alene, Idaho. Two presentations, March 19 and 20, 2013.
- de Haro Martí, M.E. 2013. Master Gardener Program.
 - Home Composting. Twin Falls and Rupert, Idaho. March 13, 2013.
 - Vermicomposting. Twin Falls and Rupert, Idaho. March 13, 2013.

Waste and Nutrient Management, State (cont.)

- de Haro Martí, M.E. 2013. Advanced Vermicomposting – Beyond raising worms and harvesting castings. Sustainable soils workshop. Hailey, Idaho. March 7, 2013.
- de Haro Martí, M.E. 2013. Dairy Middle Management Round Table. January 24, 2013.
 - Manure management on Idaho dairies.
 - On-farm composting methods.
- de Haro Martí, M.E. 2012. Dairy manure land application field day. Buhl, Idaho. October 30, 2012.
 - Manure application using a tanker and disc applicator.
 - Manure storage lagoon management and slurry pumping.
 - Manure injection using a drag hose and subsurface injection system.
- de Haro Martí, M.E. 2012. On-farm composting and research. Northwest Center for Alternatives to Pesticides (NCAP) –University of Idaho Extension Organic Field Day, Rocky Fence Vineyard. Emmett, Idaho. September 27, 2012.
- de Haro Martí, M.E. 2012. Home composting and vermicomposting. Gooding Garden Club. Gooding, Idaho. September 18, 2012.
- de Haro Martí, M.E. 2012. Composting at home. Gooding Community Garden talks. Gooding, Idaho. July 19, 2012.
- de Haro Martí, M.E. 2012. Odor and insect control on dairies. University of Idaho field day. Kimberly Research and Extension Center. Kimberly, Idaho. August 16, 2012.
- de Haro Martí, M.E. 2012. Mortality and offal on-farm composting. Blue Sage Farms- Northwest Center for Alternatives to Pesticides (NCAP) Summer Field Days. Shoshone, Idaho. August 20, 2012.
- de Haro Martí, M.E. 2012. Manure collection and composting field day. Jerome, Idaho. July 24, 2012.
 - Manure Collection.
 - Manure handling and separation.
 - Composting.
- de Haro Martí, M.E. 2012. On-Farm composting and mortality composting. University of Idaho- Northwest Center for Alternatives to Pesticides (NCAP) Summer Field Days. Kimberly Research and Extension Center. Kimberly, Idaho. July 24, 2012.
- de Haro Martí, M.E. 2012. What you buy when buying compost? Energy, Water & Soil on your Farm Operation Workshop. Gooding, Idaho. March 29, 2012.
- de Haro Martí, M.E. 2012. Farm and Dairy Employee Workshop in Spanish. Shoshone, Idaho. March 22, 2012.
 - Manure management.
 - Composting.
- de Haro Martí, M.E. 2012. Worms and Vermicomposting. Clover Elementary School, Buhl, Idaho. March 15, 2012.
- de Haro Martí, M.E. 2011. Hagerman High School Agricultural Science, Hagerman, Idaho.
 - Composting, December 1, 2011.
 - Vermicomposting, December 8, 2011.
- de Haro Martí, M.E. and J. Eells. 2011. Home Composting. CSR Eco Expo-Earth Day. Twin Falls, Idaho. April 30, 2011.
- de Haro Martí, M.E. 2011. Home Composting – From waste management to gardening and food independence. Community Preparedness Symposium. Arco, Idaho. April 9, 2011.
- de Haro Martí, M.E. 2011. Vermicomposting. Community Preparedness Symposium. Arco, Idaho. April 9, 2011.
- de Haro Martí, M.E. 2011. Master Gardener Program. Buhl, Idaho. March 15, 2011.
 - Home and Small Farm Composting
 - Vermicomposting
- de Haro Martí, M.E. 2011. On-Farm Composting Techniques. 2011 ISDA Nutrient Management Seminar. Twin Falls, Idaho. March 8-9, 2011.
- de Haro Martí, M.E. 2010. Home and Small Farm Composting. Master Gardener Program. Shoshone, Idaho. April 22, 2010.
- de Haro Martí, M.E. 2010. Alternative Biological Manure Treatment. 2010 Nutrient Management Conference. Shoshone, Idaho. March 9, 2010.

Waste and Nutrient Management, State (cont.)

- de Haro Martí, M.E. 2010. Composting Concepts. Jerome Elementary School, after School Program. Jerome, Idaho. February 17, 2010.
- de Haro Martí, M.E. 2009. Manure Management for Small Operators. Dexter Show. National Dexter Association Meeting. Rupert, Idaho. June 18, 2009.
- de Haro Martí, M.E. 2009. Home and Small Farm Composting. Gooding High School Environmental Education Program. Gooding, Idaho. April 6 and 8, 2009.
- de Haro Martí, M.E. 2009. Home and Small Farm Composting. Seventh Annual Thaw 'N Awe Horticultural Symposium. Idaho Falls, Idaho. March 21, 2009. *Invited presentation.*
- de Haro Martí, M.E. 2008. Composting School. Gooding, Idaho. September 24 and August 26, (3 presentations).
- Compost Formulation for Larger Farms, September 24.
 - Introduction to Mortality Composting, September 24.
 - On-farm Compost Methods, August 26.
- de Haro Martí, M.E. 2008. Manure Management. Pasture and Animal Management for Small Acreage Landowners. Gooding, Idaho. January 29, 2008.

Air and Water Quality:

National/Regional

- de Haro Martí, M.E. 2009. Western Odor and Air Quality Education Program. Leavenworth, Washington. June 15-16, 2009.
- Odor Measurement Techniques, June 15.
 - Odor Best Management Practices, June 15.
- de Haro Martí M.E. 2009. Odor Best Management Practices. Western Odor and Air Quality Education Program. Twin Falls, Idaho. May 19-21, 2009.
- de Haro Martí, M.E. 2008. Ammonia and Sulfur Emissions from a Storage Pond, Composting Yard, and Processing Area using UVDOAS. 2008 Idaho Nutrient Management Conference, Jerome, Idaho. March 4, 2008.
- de Haro Martí, M.E. 2007. PNWIS 2007 Conference. Powering the Future. Boise, Idaho. October 17-19, 2007.
- Air Emissions from a Dairy Wastewater Storage Pond, Manure Processing Area, and Composting Yard in South central Idaho, October 18.
 - Air Emissions from a Low-Profile, Cross-Ventilated Dairy Barn, October 18.
- Sheffield, R.E., and **M.E. de Haro Martí**. 2007. County-based Odor Management. Jerome County Planning and Zoning Board. Jerome, Idaho. June 26, 2007.
- de Haro Martí, M.E. 2005. Monitoring Dairy Emissions Using Open-path Ultraviolet Spectroscopy. Intermountain Conference on the Environment. Pocatello, Idaho. 2005.

Environmental Science and Pollution Prevention:

State

- de Haro Martí, M.E. 2017. Decomposers and vermicomposting. Wendel Elementary after school program. December 16, 2016.
- de Haro Martí, M.E. 2015. Using compost as another tool for Integrated Pest Management. Cover Crops Field Day. Gooding, Idaho. October 20, 2015. One ID Pesticide Recertification Credit.
- de Haro Martí, M.E. 2015. Rain and gray water collection and use. Extension at the Library Series. Gooding, Idaho. April 11, 2015.
- de Haro Martí, M.E. 2014. Rainwater and Greywater Systems. Minidoka Master Gardener Club. Rupert, Idaho. June 6, 2012. Twin Falls Master Gardener Club. Twin Falls, Idaho. September 20, 2011.
- de Haro Martí, M.E. 2011. Rainwater and Greywater Systems. Wood River Valley Solar & Green Building Expo. Hailey, Idaho, May 20-21, 2011. *Invited presentation.*

Environmental Science and Pollution Prevention, State (cont.)

- de Haro Martí, M.E. Idaho Master Composter and Recycler Program.
Wendell, Idaho. February 10-March 17, 2010.
Jerome, Idaho. February 2-March 16, 2011.
- MCR Guidelines.
 - Pollution Prevention Hierarchy.
 - Regulatory Framework and Using Information Resources.
 - Reduce Concepts and Examples.
 - Reducing Pollution and Examples.
 - Reuse Concepts and Examples.
 - Rain Water and Grey Water Systems.
 - Recycling Concepts and Examples.
 - Recycling Resources.
 - Waste Treatment and Disposal and Hazardous Materials.
 - Bad Recycling/Reusing – What Not to do.
 - Home Composting and General Concepts.
 - On-Farm and Municipal Composting.
 - Composting Resources.
 - Vermicomposting.
 - Black Soldier Fly and Other Alternative Treatments for Wastes.
 - Implementing Pollution Prevention Programs.
 - Community Action and Volunteer Opportunities.
- de Haro Martí, M.E. 2010. Decomposers. Presentation for third grade class at North Valley Academy School. Gooding, Idaho. May 17, 2010.
- de Haro Martí, M.E. 2010. Sustainable Environmental Education. Jerome Elementary School, after School Program. Jerome, Idaho. February 16, 2010.
- de Haro Martí, M.E. 2010. Environmental Considerations for Cow-calf and Other Beef Producers. Beef Winter School, Salmon, Idaho. February 2, 2010.
- de Haro Martí, M.E. 2009. Sustainable Environmental Education in Gooding County. Gooding High School. Gooding, Idaho. April 6, 2009.
- de Haro Martí, M.E. 2008. University of Idaho Extension and Environmental Science. Earth Day at the Gooding Public Library. Gooding, Idaho. April 23, 2008.
- de Haro Martí, M.E. 2006. Vaca Verde / Green Cow: A bilingual environmental education program for dairy workers. Jerome, Idaho. October 13 and November 17, 2006.
- General Environmental Issues, October 13, 2006.
 - Housekeeping, November 17, 2006.

Dairy Production:

International

- de Haro Martí, M.E. 2011. Dairy Calves Raising Protocols (Spanish). International Conference on Reproduction and Nutrition of Dairy Cows. Tepatitlán, Jalisco, México, September 29, 2011. Invited presentation.
- de Haro Martí, M.E. 2011. Three day Milker Certification Training. International Conference on Reproduction and Nutrition of Dairy Cows. Tepatitlán, Jalisco, México, September 28-30, 2011. Invited presentations.
- Antibiotic Residue Avoidance in Dairy Cows (Spanish), September 28, 2011.
 - Milking Machines and Parlors (Spanish), September 29, 2011.
 - Milking Procedures (Spanish), September 29, 2011.
 - Hands-on Milking Techniques and CMT Use Training (Spanish), September 30, 2011.

State

- de Haro Martí, M.E. 2018. Tractor operations and safety training.
Gooding, ID. February 20. Dietrich, ID. February 23, 2018.

Dairy Production, State (cont.)

- de Haro Martí, M.E. 2017. Extension programs and research. Idaho Dairy Herd Improvement Association Dairy Goat annual meeting. Twin Falls, ID. September 23, 2017.
- de Haro Martí, M.E. 2017. Spanish Milker School (Escuela de Ordeño). Jerome, Idaho. April 7.
Preston, Idaho. April 12.
- Milking systems
 - Milk quality and PMO
 - Milker responsibilities
 - Biosecurity and farm safety procedures
- de Haro Martí, M.E. 2016. Dairy operations in southern Idaho. International scholars' dairy tour. Magic Valley, Idaho. July 18, 2016.
- de Haro Martí, M.E. 2016. Worker's Safety in Agriculture. Hispanic worker's protection and safety program (Spanish). Jerome, Idaho. March 8, 2016.
- de Haro Martí, M.E. 2016. Spanish Milker School (Escuela de Ordeño). Jerome, Idaho. March 4.
Bruno, Idaho. January 13.
- Milking systems
 - Milk quality and PMO
 - Milker responsibilities
 - Biosecurity and farm safety procedures
- de Haro Martí, M.E. 2014. Spanish Milker School (Escuela de Ordeño). Preston, Idaho, May 28, 2014. Two repetitive sessions, morning and evening.
- Milking systems
 - Milk quality and PMO
 - Biosecurity and farm safety procedures
- de Haro Martí, M.E. 2014. Animal Welfare Training (Spanish). Preston, Idaho, November 11-12, 2014.
- Workers and animal safety considerations
 - Farm emergency plan and mortality disposal in emergency situations
 - Animal welfare legal considerations in Idaho
- de Haro Martí, M.E. 2013. Animal Care Certification. (Spanish and English). University of Idaho Extension and College of Southern Idaho.
Unit 7: Worker and animal safety, emergency plan, and legal considerations.
Unit 3: Matuk, C. and M.E. de Haro Martí. The Basic Clinical Exam: Key to early identification of sick animals.
- de Haro Martí, M.E. 2013. Dairy Middle Management Round Table.
- Manure management on Idaho dairies. (Spanish and English)
 - On-farm composting methods. (Spanish and English)
- de Haro Martí, M.E. 2012. Milker's Certification on Idaho Dairies. (Spanish and English). University of Idaho Extension and College of Southern Idaho. Jerome, Idaho, October 1-3, 2012.
- Unit 1: Introduction to Idaho's dairy industry.
 - Unit 2: Pasteurized Milk Ordinance.
 - Unit 3: Dairy design and components of a dairy.
 - Unit 4: Milking equipment.
 - Unit 8: Workplace safety and biosecurity.
 - Unit 9: Milker's responsibilities.
- Three on-farm hands-on sections. Jerome, Wendell, and Twin Falls.
- Chahine, M., **M.E. de Haro Martí**, and C. Matuk. 2011. Drug Residue Avoidance in Dairy Cows (English and Spanish). Dairy Management Crossover Meeting. Jerome, Idaho, August 24, 2011.
- de Haro Martí, M.E. 2011. Protecting the Milk Supply Workshop. Jerome, Idaho, March 16, 2011.
- Antibiotics Residue Avoidance (Spanish and English).
 - Biosecurity for Dairy Workers (Spanish and English).
- Dalton J. and **M.E. de Haro Martí**. 2010. Heat Detection: Spanish and English speaking AI school, Twin Falls, Idaho, November 15, 2010.

Dairy Production. State (cont.)

- de Haro Martí, M.E. 2010. Refugees Milker School (Translated live to four languages). Twin Falls, Idaho. February 8,9, 11, and 26, 2010.
- Milk around the world and Idaho production
 - Dairy facilities and milking parlors
 - Milking systems
 - Cow handling
 - Milking procedures
 - Milk quality
 - Dairy farm safety and biosecurity
 - Two dairy farm visits
- Dalton J. and **M.E. de Haro Martí**. 2009. Heat Detection: Spanish and English Speaking AI School, Twin Falls, Idaho, December 7 and 8, 2009.
- Chahine, M, and **M.E. de Haro Martí**. On-farm Spanish Milker School (Escuela de Ordeño). Jerome, Idaho, October 16, and October 20, 2009.
Buhl, Idaho, May 4, 2008.
Jerome, Idaho, November 16 and November 19, 2007.
- Dairy facilities and milking parlors
 - Milking systems
 - Cow handling
 - Milking procedures
 - Milk quality
- Chahine, M, and **M.E. de Haro Martí**. 2009. Spanish Milker School (Escuela de Ordeño). Twin Falls, Idaho, May 27, 2009. Two repetitive sessions, morning and evening.
- Dairy facilities and milking parlors
 - Milking systems
 - Cow handling
 - Milking procedures
 - Milk quality
 - Biosecurity and farm safety procedures
- Dalton J. and **M.E. de Haro Martí**. 2008. Heat Detection: Spanish Speaking AI School. Twin Falls, Idaho, December 1, 2008.
- de Haro Martí, M.E. and M. Chahine. 2008. From feed to milk, University of Idaho Extension.
- 1000 Springs Festival, Hagerman, Idaho, September 27 and 28, 2008.
 - Idaho State Park Centennial, Hagerman, Idaho, July 12, 2008.
 - Jerome Historical Society, Jerome, Idaho, June 14, 2008.
- de Haro Martí, M.E. 2008. TMR mixing – Feeder School (Spanish), Preston, Idaho, March 20, 2008.
- Farm Safety (Spanish).
 - Nutrients and the Environment (Spanish).
- de Haro Martí, M.E. 2008. TMR mixing – Feeder school (English), Preston, Idaho, March 20, 2008.
- Farm Safety.
 - Nutrients and the Environment.
- Dalton J. and **M.E. de Haro Martí**. 2007. Heat Detection: Spanish speaking AI school, Twin Falls, Idaho, December 10, 2007.
- de Haro Martí, M.E. 2007. A training workshop for dairy Hispanic workers: Spanish Language Milker School (escuela de ordeño), Jerome, Idaho. November 16, 2007.
- de Haro Martí, M.E. 2007. A journey through the rumen. Thousand Springs Festival. Hagerman, Idaho. September 29, 30, 2007.
- de Haro Martí, M.E. 2007. TMR Mixing/Feeding School (English). September 26. Gooding Idaho.
- Farm Safety .
 - Nutrients and the Environment.
- de Haro Martí, M.E. 2007. TMR Mixing/Feeding School (Spanish). September 25. Gooding Idaho.
- Farm Safety (Spanish).
 - Nutrients and the Environment (Spanish).

Other or Miscellaneous:

- de Haro Martí, M.E. 2018. Work safety considerations for interns. University of Idaho Extension Internships Best Management Practices Zoom training. April 27, 2018.
- de Haro Martí, M.E. 2018. Civil rights training. Gooding 4-H Leaders' Council. Gooding, ID. February 12, 2018.
- de Haro Martí, M.E. 2016. Meet a local scientist. Boy Scouts group meeting. Gooding, ID. February 23, 2016.
- de Haro Martí, M.E. 2016. Extension update. Rotary Club. Gooding, ID. January 29, 2016.
- Gill, G.K. and **M.E. de Haro Martí**. 2015. Research Leadership Ag Science Summer Internship. Twin Falls, ID. September 25, 2015.
- de Haro Martí, M.E. 2015. Extension work and experimental design. Agricultural Technology class, Gooding High School. September 15, 2015.
- de Haro Martí, M.E. 2014. How to identify a hobo spider. Advanced Master Gardener Training. Gooding, ID. August 15, 2014.
- de Haro Martí, M.E. 2013. It's a bug's world. Youth insects' presentation.
- Boys & Girls Club. Twin Falls. June 13, 2013
- Boys & Girls Club. Twin Falls. April 30, 2013.
- Chahine M., and **M.E. de Haro Martí**. 2012. Foreign-born workers and Idaho's food system. Idaho's Journey for Diversity and Human Rights. University of Idaho. Jerome, Idaho. October 5, 2012.
- de Haro Martí, M.E. 2008. University of Idaho Extension and Waste Management. Gooding County Fair. Gooding, Idaho. August 12-16, 2008.

Honors and Awards:

- Communication Award - Promotional Piece. National Finalist. 2009. National Association of County Agricultural Agents.
- Achievement Award. Western Region Extension Education Poster Winner. 2009. National Association of County Agricultural Agents.

SCHOLARSHIP ACCOMPLISHMENTS:**Publications, Exhibitions, Performances, Recitals:****Refereed:****Journals:**

- L. Chen, W. Gray, H. Neibling, S.K.R. Yadanaparthi, M. Chahine, and **M.E. de Haro Martí**. 2014. On-farm comparison of two dairy manure application methods in terms of ammonia and odor emissions and costs. *Applied Engineering in Agriculture*. Vol. 30(5): 805-813.
- Moore, A., S. Hines, B. Brown, C. Falen, **M.E. de Haro Martí**, 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., S. Hines, M. Chahine, T. Fife, **M.E. de Haro Martí**, S. Parkinson. 2013. Comparing Three Different Methods for Assessing Corn Silage Density, *Journal of Extension*. October 2013, volume 51-5 Article 5RIB9.
- Hines, S., A. Moore, B. Brown, M. Chahine, R. Norell, **M.E. de Haro Martí**, C. Falen, T. Fife, S. Parkinson, J. Ippolito. 2012. Using Extension Phosphorus Uptake Research to Improve Idaho's Nutrient Management Planning Program, *Journal of Extension*. October 2012, volume 50-5 Article 5RIB10.
- Chahine, M. and **M. E. de Haro Martí**. 2010. ¿Cómo reducir el recuento de células somáticas? (How to reduce Somatic Cell Counts?). *Albeitar*, Spain. July 2010 (136): 4-6.
- Leytem, A.B., Bjorneberg, D.L., Sheffield, R.E., and **M.E. de Haro Martí**. 2009. Case study: On-farm evaluation of liquid dairy manure application methods to reduce ammonia losses. *Professional Animal Scientist* 25:93-98.

Peer Reviewed/Evaluated:**Extension Publications:**

- Moore A., **M.E. de Haro Martí**, and L. Chen. 2015. Sampling dairy Manure and Compost for Nutrient analysis. University of Idaho. Bulletin PNW 673.
- Gray C.W., L. Chen, **M.E. de Haro Martí**, M. Chahine, and H. Neibling. 2014. Cost of Liquid-Manure Application Systems. University of Idaho. Bulletin BUL 888.
- Ellis, L., S. Love, **M.E. de Haro-Martí**, and A. Moore. 2013. Composting and Using Backyard Poultry Waste in the Home Garden. University of Idaho. Bulletin CIS 1194.
- Chahine, Mireille; O. Pozo, and **M.E. de Haro Martí**. 2013. Appropriate Milking Routines (Spanish) (Rutinas apropiadas de ordeño). eXtension. March 2013.
<http://www.extension.org/pages/67521/rutinas-apropiadas-de-ordeo#.Uplq-uLrQdp>
- Chen L., A. Moore, **M.E. de Haro Martí**. 2012. Dairy Compost Production and Use in Idaho: On-Farm Composting Management. University of Idaho. Bulletin CIS 1190.
- Chen L., **M.E. de Haro Martí**, A. Moore, C. Falen. 2011. Dairy Compost Production and Use in Idaho: The Composting Process. University of Idaho. Bulletin CIS 1179.
- Sheffield, R.E., P. Ndegwa, M. Gamroth, and **M.E. de Haro Martí**. 2008. Odor Control Practices for Northwest Dairies. University of Idaho. Bulletin CIS 1148.
- Sheffield, R. E., B. Brown, M. Chahine, **M.E. de Haro Martí**, and C. Fallen. 2008. Mitigating High Phosphorus Soils. University of Idaho. Bulletin CIS 851.
- Smith, J., J. Harner, **M.E. de Haro Martí**, R. Sheffield, J. Zulovich, S. Pohl, C. Fulhage, R. Nicoli, B. Hetchler, L. Jacobson, K. Dhuyvetter and M. Brouk. 2007. Comprehensive Evaluation of a Low-Profile Cross-Ventilated Freestall Barn. eXtension Fact Sheet.
http://www.extension.org/pages/comprehensive_evaluation_of_a_low-profile_cross-ventilated_free_stall_barn

Refereed/Adjudicated (in press or submitted):

- de Haro Martí, M.E., W.H. Neibling, L. Chen, and M. Chahine. 2018. Use of clinoptilolite zeolite in composting of dairy manure and its impact on ammonia emissions, nitrogen speciation, and compost quality. Trans. of the ASABE. (submitted)
- Ozer, B., **M.E. de Haro Martí**, B. Glaze, C.M. Matuk, and M. Chahine. Addition of colostrum supplement to maternal colostrum and its effects on health and performance of pre-weaned calves. J. Dairy Sci. (submitted)
- Ozer, B., B. Glaze, **M.E. de Haro Martí**, C.M. Matuk, and M.Chahine. 2018. Effect of quantity and frequency of colostrum feeding on health and performance of pre-weaned and post-weaned dairy calves. J. Dairy Sci. (submitted)
- Ozer, B., A. Bach, B. Glaze, **M.E. de Haro Martí**, C.M. Matuk, and M. Chahine. 2018. Short communication: Serum total protein in calves is not correlated with future milk performance. J. Dairy Sci. (submitted)

Peer Reviewed/Evaluated (in press or submitted):**Other:****New Curricula Developed:**

- Chahine, M., R. Norell, J. Dalton, **M.E. de Haro Martí**, C. Matuk, K.S. Jensen, C. Schneider, J.B. Glaze, G. Brumbaugh, and J.B. Hall. 2013. Animal Care Certification for Dairy Workers (Spanish and English).
- Chahine, M., R. Norell, J. Dalton, **M.E. de Haro Martí**, C. Matuk, and K.S. Jensen. 2013. ABS Dairy reproduction training (Spanish and English).
- Chahine, M., **M.E. de Haro Martí**, and C, Matuk. 2012. Milker's Certification on Idaho Dairies. (Spanish and English). University of Idaho Extension and College of Southern Idaho.
- Chahine, M. and **M.E. de Haro Martí**. 2011. Three day Milker Certification Training (Spanish). de Haro Martí, M.E. and J.A. Robbins. 2010. Idaho Master Composter and Recycler Program.

New Curricula Developed (cont.)

- de Haro Martí, M.E. and J.A. Robbins. 2008. Composting School.
- de Haro Martí, M.E. 2007. Sustainable Environmental Education in Gooding County.
- Chahine M., **M.E. de Haro Martí**, and T. Fife. 2007. Hoof Trimming Workshop: Developed in English and Spanish.
- Chahine, M., R. Norell, and **M.E. de Haro Martí**. 2007. Feeding school/TMR mixing School: Developed in English and Spanish.
- Sheffield, R.E., M. Chahine, R. Norell, and **M.E. de Haro Martí**. 2006. Vaca Verde-Green Cow Environmental Curricula: Developed in English and Spanish.

Impact Statements:

- de Haro-Martí, M.E. 2017. Recycling at the Fair program educates the community and reduces costs.
- de Haro-Martí, M.E. 2017. Idaho Nutrient Management Conference updates audience on latest developments.
- de Haro-Martí, M.E. 2015. Recycling food waste reduces school environmental impact, teaching ag concepts.
- de Haro Martí, M.E., M. Chahine, and B. Ozer. 2011. Colostrum supplement trial demonstrates reduced immunity transfer in dairy calves.
- Hines, S., B. Brown, M. Chahine, C. Falen, T. Fife, J. Ippolito, **M.E. de Haro Martí**, A. Moore, S. Parkinson, R. Norell. 2011. Phosphorus uptake study provides valuable information for nutrient planners.
- de Haro-Martí, M.E. 2009. Western odor and air quality education program offered in Idaho.
- de Haro-Martí, M.E. and J.A. Robbins. 2009. Composting School – Materials and Methods.
- de Haro-Martí, M.E., M. Chahine and R. Norell. 2008. Feeder School in English and Spanish.
- Fife, T., **M.E. de Haro-Martí**, and M. Chahine. 2008. Hoof Care Workshop in English and Spanish.

Book Chapters:

- Sheffield, R.E., **M.E. de Haro-Martí**, J. Smith, and J. Harner. 2007. Air Emissions from a Low-Profile, Cross-Ventilated Dairy Barn. Ammonia emissions in agriculture, (pp. 117-118). Wageningen Academic Publishers, Wageningen, The Netherlands, 2007. ISBN 978-90-8686-029-6.

Abstracts and Proceedings:**International:**

- de Haro Martí, M.E., M. Chahine, H. Neibling, and L. Chen. 2018. Use of clinoptilolite in composting of dairy manure to reduce ammonia emissions and retain nitrogen. Zeolite 2018, 10th International Conference on the Occurrence, Properties and Utilization of Natural Zeolites. Kraków, Poland. June 24-29, 2018. (Abstract and Proceedings).
- Chahine, M., T. S. Hirsch, J. M. DeFrain, T. Fife, and **M. E. de Haro Martí**. Hoof care workshop in English and Spanish. 2009. ADSA–CSAS-ASAS Joint Annual Meeting. Montréal, Quebec, Canada. J. Anim. Sci. Vol. 87, E-Suppl. 2/J. Dairy Sci. Volume 92, E- Supplement 1. (Abstract).
- Chahine, M., **M. E. de Haro Martí**, S. St Hilaire, O. Pozo, R. E. Sheffield. 2009. Black soldier fly larvae grown on cow manure. ADSA–CSAS-ASAS Joint Annual Meeting. Montréal, Quebec, Canada. J. Anim. Sci. Vol. 87, E-Suppl. 2/J. Dairy Sci. Volume 92, E- Supplement 1. (Abstract).
- Norell, R., M. Chahine, and **M. E. de Haro Martí**. 2009. Feeder schools in English and Spanish. ADSA–CSAS-ASAS Joint Annual Meeting. Montréal, Quebec, Canada. J. Anim. Sci. Volume 87, E-Suppl. 2/J. Dairy Sci. Vol. 92, E- Supplement 1. (Abstract).
- Dalton, J.C., K.S. Jensen, M. Chahine, and **M.E. de Haro Martí**. 2009. A Spanish language artificial insemination school for Idaho dairy employees. ADSA–CSAS-ASAS Joint Annual Meeting. Montréal, Quebec, Canada. J. Anim. Sci. Volume 87, E- Supplement 2/J. Dairy Sci. Vol. 92, E-Suppl. 1. (Abstract).

Abstracts and Proceedings, International (cont.)

- Chahine, M. and **M.E. de Haro Martí**. 2009. How to Reduce Milk Somatic Cell Counts on a Commercial Dairy: a Practical Example. Eurovacum Conference, Vic, Barcelona Spain. June 10 – 11, 2009. (Abstract).
- Sheffield, R.E., **M.E. de Haro Martí**, J. Smith, and J. Harner. 2007. Air Emissions from a Low-Profile, Cross-Ventilated Dairy Barn. International Ammonia Conference in Agriculture. Wageningen UR. Conference Center De Reeherst. Ede, Netherlands. March 19 – 21, 2007.

National/Regional:

- de Haro-Martí, M.E., M. Chahine, H. Neibling, and L. Chen. 2017. The effect of adding zeolites to dairy manure compost on ammonia emissions and nitrogen speciation. American Dairy Science Association Annual Meeting. Pittsburgh, PA. June 25-28, 2017. *Journal of Dairy Science*. Vol. 100, Suppl. 2. (Abstract).
- Norell, R., J. Spencer, A. Ahmadzadeh, **M.E. de Haro-Martí**, and M. Chahine. 2017. Does a 500 ohm shunt resistor accurately characterize the electrical resistance of adult dairy cattle? American Dairy Science Association Annual Meeting. Pittsburgh, PA. June 25-28, 2017. *Journal of Dairy Science*. Vol. 100, Suppl. 2. (Abstract).
- Bach, A., J. Polo, J. M. Campbell, M. Chahine, and **M.E. de Haro-Martí**. Effects of spray-dried plasma product supplementation on transition and lactation on milk production and reproduction in dairy cows. American Dairy Science Association Annual Meeting. Pittsburgh, PA. June 25-28, 2017. *Journal of Dairy Science*. Vol. 100, Suppl. 2. (Abstract).
- de Haro-Martí, M.E., H. Neibling, M. Chahine, and L. Chen. 2017. Composting of dairy manure with the addition of zeolites to reduce ammonia emissions. Waste to Worth, Advancing Sustainability in Animal Agriculture conference. Raleigh, North Carolina. April 18-21, 2017. (Abstract and Proceedings).
- de Haro-Martí, M.E., M. Chahine, T. McCammon, and A. Agenbroad. 2015. Composting of dairy manure and grape vine prunings as a tool to reduce both industries' environmental impact ADSA-ASAS Joint Annual Meeting. Orlando, Florida. *J. Dairy Sci.* Vol. 98, Suppl. 2. (Abstract).
- de Haro Martí, M.E., M. Chahine, L. Chen, H. Neibling. 2015. On-farm field days as a tool to demonstrate and educate about dairy waste management practices. ADSA-ASAS Joint Annual Meeting. Orlando, Florida. *J. Dairy Sci.* Vol. 98, Suppl. 2. (Abstract).
- de Haro-Martí, M.E., M. Chahine, T. McCammon, and A. Agenbroad. 2015. Composting of dairy manure and grape vine prunings as a tool to better manage both industries waste and reduce their environmental impact. From Waste to Worth: Advancing Sustainability in Animal Agriculture conference. Seattle, Washington. March 30 – April 3, 2015. (Abstract and Proceeding).
- de Haro Martí, M.E., L. Chen, C.W. Gray, M. Chahine, H. Neibling, T. McCammon, A. Agenbroad, J. Eells, and S.K. Reddy Yadanaparathi. 2013. On-Farm Field Days as a Tool to Demonstrate Agricultural Waste Management Practices and Educate Producers. From Waste to Worth Waste Management Conference. Denver, Colorado. April 1-5, 2013. (Abstract and Proceeding).
- Matuk, C.M., M. Chahine, A. Bach, B. Ozer, **M.E. de Haro Martí**, J. B. Glaze, T. Fife, M. Nelson. 2012. Effect of grouping calves post-weaning according to pre-grouping feed intake on eating behavior. ADSA-AMPA-ASAS-CSAS-WSASAS Joint Annual Meeting. Phoenix, Arizona. July 15-19, 2012. *Journal of Dairy Science*, Volume 95, E-Supplement 1. (Abstract).
- Norell, R. J., C. M. Matuk, S. Hines, M. Chahine, **M.E. de Haro Martí**, and S. C. Parkinson. 2012. Measuring dry matter of corn silage, haylage and TMR samples with a food dehydrator. ADSA-AMPA-ASAS-CSAS-WSASAS Joint Annual Meeting. Phoenix, Arizona. July 15-19, 2012. *Journal of Dairy Science*, Volume 95, E-Supplement 1. (Abstract).
- Moore, A., S. Hines, B. Brown, **M.E. de Haro Martí**, C. Falen, M. Chahine, T. Fife, R. Norell, and J. Ippolito. 2011. Influence of dairy manure applications on corn nutrient uptake. Proceedings of the Western Nutrient Management Conference. Volume 9:49-54.

Abstracts and Proceedings, National/Regional (cont.)

- Ozer, B., M., Chahine, C.M. Matuk, and **M.E. de Haro Martí**. 2011. Effect of quantity and frequency of colostrum feeding on passive transfer, health, and performance of pre-weaned and post-weaned dairy calves. Joint Annual Meeting ADSA, ASAS. New Orleans, Louisiana. July 10-14, 2011. Journal of Dairy Science, Volume 94, E-Supplement 1. (Abstract).
- Matuk, C.M., M. Chahine, A. Bach, B. Ozer, **M.E. de Haro Martí**, J.B. Glaze Jr., T. Fife, and M. Nelson. 2011. Effect of birth weight, early intake, and average daily gain of calves before weaning on their performance after weaning and during first lactation. Joint Annual Meeting ADSA, ASAS. New Orleans, Louisiana. July 10-14, 2011. Journal of Dairy Science, Volume 94, E-Supplement 1. (Abstract).
- de Haro Martí, M.E. and J.A. Robbins. 2010. Composting School: An educational tool to bring together dairy producers and other community members. Joint Annual Meeting ADSA, PSA, AMPA, CSAS, ASAS. Denver, CO. July 11-15, 2010. Journal of Dairy Science, Volume 93, E-Supplement 1. (Abstract).
- de Haro Martí, M.E., R.E. Sheffield, and M. Chahine. 2010. Emissions from a dairy waste management system in south-central Idaho. Joint Annual Meeting ADSA, PSA, AMPA, CSAS, ASAS. Denver, CO. July 11-15, 2010. Journal of Dairy Science, Volume 93, E-Supplement 1. (Abstract).
- Matuk, C.M., M. Chahine, A. Bach, B. Ozer, **M. E. de Haro Martí**, J.B. Glaze Jr., T. Fife, and M. Nelson. 2010. Effect of grouping calves post-weaning according to pregrouping feed intake on animal performance. Joint Annual Meeting ADSA, PSA, AMPA, CSAS, ASAS. Denver, CO. July 11-15, 2010. Journal of Dairy Science, Volume 93, E-Supplement 1. (Abstract).
- Ozer, B., M., Chahine, C.M. Matuk, **M. E. de Haro Martí**, and M. Nelson. 2010. Effect of colostrum supplementation on health and performance of pre-weaned and post-weaned dairy calves. Joint Annual Meeting ADSA, PSA, AMPA, CSAS, ASAS. Denver, CO. July 11-15, 2010. Journal of Dairy Science, Volume 93, E-Supplement 1. (Abstract).
- de Haro Martí, M.E. and J.A. Robbins. 2009. Composting School – Materials and Methods. National Association of County Agricultural Agents Annual Conference. Portland, Oregon. (Abstract).
- de Haro Martí, M.E. and J.A. Robbins. 2009. Composting School – Materials and Methods. Program Promotional Piece, National Association of County Agricultural Agents Annual Conference. Portland, Oregon. (Abstract)
- Reese, M., R.S. Martin, C. Going, E. Fowels, R. Sheffield, and **M.E. de Haro Martí**. 2009. Comparison of Ambient Ammonia Measurement Techniques from Dairy Area Sources. Proceedings of the 2009 ASABE Annual International Meeting. Reno, Nevada. June 21-24, 2009. Paper 095724.
- Fife, T.E., M. Chahine, **M.E. de Haro Martí**, S.L. Hines, R.J. Norell, and S.C. Parkinson. 2009. Measuring corn silage density across southern Idaho using three different methods. National Association of County Agricultural Agents Annual Conference. Portland, Oregon. (Abstract).
- Sheffield, R.E., **M.E. de Haro Martí**, J.F. Smith, J.P. Harner, S. Pohl, R.S. Pohl, and D. Nicoli. 2008. Air Quality in a Low Profile Cross Ventilated Dairy Barn. Proceedings of the Dairy Housing of the Future. Sioux Falls, SD. September 10-11, 2008.
- de Haro Martí, M.E. and J.A. Robbins. 2008. Composting School – Materials and Methods. Proceedings of the Western Region Ag Agent Conference. Prineville, Oregon. October 15-16, 2008.
- Chahine, M., **M. E. de Haro Martí**, T. Fife, S. L. Hines, R. J. Norell and S. Parkinson. 2008. Evaluating corn silage density measurement tools. Proceedings of the Western Region Ag Agent Conference. Prineville, Oregon.
- Norell, R., M. Chahine, S. Hines, T. Fife, **M.E. de Haro Martí**, and S. Parkinson. 2008. Comparing three different methods for assessing corn silage density. Joint Annual Meeting ADSA, ASAS. Indianapolis, Indiana. July 7-11, 2008. Journal of Dairy Science 91(E-Suppl. 1):29. (Abstract)

Abstracts and Proceedings, National/Regional (cont.)

- de Haro Martí, M.E., R. Sheffield, and M. Chahine. 2007. UV Open Path Spectroscopy Monitoring of a Manure Storage Basin, Composting Yard, and Processing Area. ASABE International Symposium on Air Quality and Waste Management for Agriculture. Broomfield, Colorado. September 15-17, 2007. (Abstract).
- Sheffield, R.E., **M.E. de Haro Martí**, J. Smith, and J. Harner. 2007. Air Emissions from a Low-Profile, Cross-Ventilated Dairy Barn. ASABE International Symposium on Air Quality and Waste Management for Agriculture. Broomfield, Colorado. September 15-19, 2007. (Abstract).
- Sheffield, R. and **M.E. de Haro Martí**. 2007. UV Spectrometry: Barns, Manure Processing, Lagoons, and Land Application. Western Dairy Air Quality Symposium. Las Vegas, Nevada. April 26-27, 2007. (Abstract).
- de Haro Martí, M.E., J.F. Smith, J.P. Harner, R.E. Sheffield, J. Zulovich, S. Pohl., C. Fulhage, D. Nicoli, B. Hetchler, L. Jacobson, K. Dhuyvetter, and M. Brouk. 2007. Comprehensive Evaluation of a low profile cross ventilated freestall barn. Western Dairy Management Conference. Reno, Nevada. March 6-8, 2007. (Proceeding).

State:

- M. E. de Haro Martí, M. Chahine, H. Neibling, and L. Chen. 2016. Use of zeolites to retain nitrogen during composting treatment of dairy manure. Idaho Nutrient Management Conference (Abstract and Proceedings). Jerome, Idaho. March 10, 2016.
- de Haro Martí, M.E., A. Agenbroad, and T. McCammon. 2014. Composting of dairy manure and grape vine prunings using three different composting techniques. Idaho Nutrient Management Conference (Abstract and Proceedings). Twin Falls, Idaho. March 6, 2014.
- Norell, R., M. Chahine, and **M.E. de Haro Martí**. 2012. Designer manures: managing manure production and nutrient quality. Idaho Nutrient Management Conference (Abstract and Proceedings). Jerome, Idaho. March 6, 2012.
- Hines, S., B. Brown, M. Chahine, C. Falen, T. Fife, J. Ippolito, **M.E. de Haro Martí**, A. Moore, S. Parkinson, and R. Norell. 2011. Silage corn phosphorus uptake in southern Idaho, Study Results. Idaho Hay and Forage Conference, Burley, Idaho. February 22, 2011. (Proceeding).
- de Haro Martí, M. E., M. Chahine, S. St Hilaire, O. Pozo, and R. E. Sheffield. 2010. Black soldier fly larvae grown on cow manure. Proceedings of the Idaho Nutrient Management Conference. Shoshone, Idaho. March 9, 2010. (Abstract).
- de Haro Martí, M.E. Alternative Biological Manure Treatment. Idaho Nutrient Management Conference. Shoshone, Idaho. March 9, 2010. (Abstract).
- Moore, A., B. Brown, **M.E. de Haro Martí**, C. Falen, M. Chahine, T. Fife, R. Norell, and J. Ippolito. 2010. Phosphorus uptake by silage corn in Southern Idaho. Proceedings of the Idaho Nutrient Management Conference. Vol. 5:26-31.
- de Haro Martí, M.E. and J.A. Robbins. 2009. Composting School – Getting the Most from Small Grants. University of Idaho Extension-CALS Annual Conference. Moscow, Idaho. (Abstract).
- Hines, S.L., B. Brown, **M.E. de Haro Martí**, C. Falen, T.E. Fife, and A. Moore. 2009. Uptake of Phosphorus in Corn Silage Across Southern Idaho. Idaho Alfalfa and Forage Conference, Burley, Idaho. February 4, 2009. (Abstract).
- Norell, R., M. Chahine, S. Hines, T. Fife, **M.E. de Haro Martí**, and S. Parkinson. 2008. Evaluating corn silage density tools. University of Idaho Extension Annual Conference. (Abstract).
- de Haro Martí, M.E. and M. Chahine. 2008. Ammonia and Sulfur Emissions from a Storage Pond, Composting Yard, and Processing Area using UVDOAS. Proceedings of the 2008 Idaho Nutrient Management Conference, Jerome, Idaho.

Research Reports:

- de Haro Martí, M.E. 2017. On-farm use of zeolites with composting and air filtration technologies to control ammonia emissions, odor, and nitrogen retention from dairy manure. Research advance report. University of Idaho Extension Twin Falls R&E Center. November 22, 2016.

Research Reports (cont.)

- de Haro Martí, M.E. and M. Chahine. 2015. Update on University of Idaho Extension dairy environmental research. NC2042 Research group. Barcelona, Spain. October 21, 2015.
- de Haro Martí, M.E. 2014. Update on University of Idaho Extension waste and nutrient management research and Extension programs.
 - Cassia County Ground Water Quality Advisory Committee. May 20.
 - Middle Snake Regional Water Resource Commission. January 15.
- de Haro Martí, M.E. 2012. Flow through vermicompost reactor research report. Gooding, Idaho. February 28, 2012.
- de Haro Martí, M.E. 2009. University of Idaho Manure Management, Air & Water Quality Research and Extension Programs. Presentation for the Jerome County Commissioners by request. Jerome, Idaho. March 23, 2009.
- de Haro Martí, M.E. 2008. Update on University of Idaho Research Related to CAFO and Water Quality in Idaho. Presentation for the Middle Snake Regional Water Resource Commission by request. Twin Falls, Idaho. November 19, 2008.
- de Haro Martí, M.E. 2008. Update on Manure Management & Air Quality Research in Idaho. Presentation for the University of Idaho Extension Advisory Board. Twin Falls, Idaho. April 14, 2008.
- de Haro Martí, M.E. and Sheffield, R. 2007. Manure Management & Air Quality Programs in Idaho. Presentation for the University of Idaho Extension Advisory Board. Twin Falls, Idaho. October 17, 2007.

Thesis and Dissertations:

- de Haro Martí, M.E. 2018. Ph.D. Dissertation. On-Farm use of Clinoptilolite Zeolite with Composting and Air Filtration Technologies to Control Ammonia Emissions, Odor, and Nitrogen Retention from Dairy Manure. Twin Falls, ID. May 2018. 185 pages.
- de Haro Martí, M.E. 2007. M.S. Thesis. Air Quality Monitoring on Dairies using Ultraviolet Open Path Spectroscopy. University of Idaho. May 2007. 190 pages.

Scholarly Presentations and Other Creative Activities:**Presentations, Workshops, Seminars, Invited Lectures, etc.:****International**

- de Haro Martí, M.E. 2007. Air Emissions from a Low-Profile, Cross-Ventilated Dairy Barn. International Ammonia Conference in Agriculture. Wageningen UR. Conference Center De Reehorst. Ede, Netherlands. March 19-21, 2007.

National/Regional

- de Haro Martí, M.E. 2008. Composting School – Materials and Methods. Western Region Ag Agent Conference. Prineville, Oregon. October 16, 2008.
- de Haro Martí, M.E. 2007. UV Open Path Spectroscopy Monitoring of a Manure Storage Basin, Composting Yard, and Processing Area. ASABE International Symposium on Air Quality and Waste Management for Agriculture. Broomfield, Colorado. September 15-17, 2007.

State

- de Haro Martí, M.E. 2009. Composting School – Getting the Most from Small Grants. University of Idaho Extension-CALS Annual Conference. Moscow, Idaho. March 13, 2009.

Web pages:

de Haro Martí, M.E. 2011-present. Animal Waste Management section for the University of Idaho Nutrient Management Webpage. <http://www.extension.uidaho.edu/nutrient>

Video Productions:

de Haro Martí, M.E., L. Chen, H. Neibling, M. Chahine, C.W. Gray, and J. Tilly. 2013. Manure Application Using a Drag Hose and Injection System. University of Idaho Extension. DVD and You Tube Video.

Displays and Posters:**International:**

- de Haro Martí, M.E., M. Chahine, H. Neibling, and L. Chen. 2018. Use of clinoptilolite in composting of dairy manure to reduce ammonia emissions and retain nitrogen. Zeolite 2018, 10th International Conference on the Occurrence, Properties and Utilization of Natural Zeolites. Kraków, Poland. June 24-29, 2018. (Poster).
- Chahine, M., **M.E. de Haro Martí**, S. St Hilaire, O. Pozo, and R. E. Sheffield. 2009. Black soldier fly larvae grown on cow manure. ADSA–CSAS-ASAS Joint Annual Meeting. Montréal, Quebec, Canada. (Poster).
- Chahine, M., T.S. Hirsch, J.M. DeFrain, T. Fife, and **M.E. de Haro Martí**. 2009. Hoof care workshop in English and Spanish. ADSA–CSAS-ASAS Joint Annual Meeting. Montréal, Quebec, Canada. (Poster).
- Norell, R., M. Chahine, and **M.E. de Haro Martí**. 2009. Feeder schools in English and Spanish. ADSA–CSAS-ASAS Joint Annual Meeting. Montréal, Quebec, Canada. (Poster).
- Dalton, J.C., K.S. Jensen, M. Chahine, and **M.E. de Haro Martí**. 2009. A Spanish language artificial insemination school for Idaho dairy employees. ADSA–CSAS-ASAS Joint Annual Meeting. Montréal, Quebec, Canada. (Poster).
- Sheffield, R.E., **M.E. de Haro Martí**, J. Smith, and J. Harner. 2007. Air Emissions from a Low-Profile, Cross-Ventilated Dairy Barn. International Ammonia Conference in Agriculture. Wageningen UR. Conference Center De Reeherst. Ede, Netherlands. March 19-21, 2007. (Poster).

National/Regional:

- de Haro-Martí, M.E., M. Chahine, H. Neibling, and L. Chen. 2017. The effect of adding zeolites to dairy manure compost on ammonia emissions and nitrogen speciation. American Dairy Science Association Annual Meeting. Pittsburgh, PA. June 25-28, 2017. (Poster).
- Norell, R., J. Spencer, A. Ahmadzadeh, **M.E. de Haro Martí**, and M. Chahine. 2017. Does a 500 ohm shunt resistor accurately characterize the electrical resistance of adult dairy cattle? American Dairy Science Association Annual Meeting. Pittsburgh, PA. June 25-28, 2017. (Poster).
- Bach, A., J. Polo, J. M. Campbell, M. Chahine, and **M.E. de Haro-Martí**. Effects of spray-dried plasma product supplementation on transition and lactation on milk production and reproduction in dairy cows. American Dairy Science Association Annual Meeting. Pittsburgh, PA. June 25-28, 2017. (Poster).
- de Haro-Martí, M.E., H. Neibling, M. Chahine, and L. Chen. 2017. Composting of dairy manure with the addition of zeolites to reduce ammonia emissions. Waste to Worth, Advancing Sustainability in Animal Agriculture conference. Raleigh, North Carolina. April 18-21, 2017. (Poster).
- de Haro-Martí, M.E., M. Chahine, T. McCammon, and A. Agenbroad. 2015. Composting of dairy manure and grape vine prunings as a tool to reduce both industries' environmental impact ADSA–ASAS Joint Annual Meeting. Orlando, Florida. (Poster).
- de Haro Martí, M.E., M. Chahine, L. Chen, H. Neibling. 2015. On-farm field days as a tool to demonstrate and educate about dairy waste management practices. ADSA–ASAS Joint Annual Meeting. Orlando, Florida. (Poster).

Displays and Posters. National/Regional (cont.)

- de Haro-Martí, M.E., M. Chahine, T. McCammon, and A. Agenbroad. 2015. Composting of dairy manure and grape vine prunings as a tool to better manage both industries waste and reduce their environmental impact. From Waste to Worth: Advancing Sustainability in Animal Agriculture conference. Seattle, Washington. March 30 – April 3, 2015. (Poster).
- L. Chen, S.K.R. Yadanapathi, **M.E. de Haro Martí**, W. Gray, H. Neibling, M. Chahine. 2014. On-Farm Evaluation of Two Liquid Dairy Manure Application Methods to Reduce Odor and Ammonia Emission. ASABE Agricultural equipment Technology Conference. Louisville, Kentucky. February 10-12, 2014. (Poster).
- de Haro Martí, M.E., L. Chen, C.W. Gray, M. Chahine, H. Neibling, T. McCammon, A. Agenbroad, J. Eells, and S.K. Reddy Yadanaparthi. 2013. On-Farm Field Days as a Tool to Demonstrate Agricultural Waste Management Practices and Educate Producers. From Waste to Worth Waste Management Conference. Denver, Colorado. April 1-5, 2013. (Poster).
- Matuk, C.M., M. Chahine, A. Bach, B. Ozer, **M.E. de Haro Martí**, J. B. Glaze, T. Fife, M. Nelson. 2012. Effect of grouping calves post-weaning according to pre-grouping feed intake on eating behavior. ADSA-AMPA-ASAS-CSAS-WSASAS Joint Annual Meeting. Phoenix, Arizona. July 15-19, 2012. (Poster).
- Norell, R. J., C. M. Matuk, S. Hines, M. Chahine, **M.E. de Haro Martí**, and S. C. Parkinson. 2012. Measuring dry matter of corn silage, haylage and TMR samples with a food dehydrator. ADSA-AMPA-ASAS-CSAS-WSASAS Joint Annual Meeting. Phoenix, Arizona. July 15-19, 2012. (Poster).
- Ozer, B., M., Chahine, C.M. Matuk, and **M.E. de Haro Martí**. 2011. Effect of quantity and frequency of colostrum feeding on passive transfer, health, and performance of pre-weaned and post-weaned dairy calves. Joint Annual Meeting ADSA, ASAS. New Orleans, Louisiana. July 10-14, 2011. (Poster).
- Matuk, C.M., M. Chahine, A. Bach, B. Ozer, **M.E. de Haro Martí**, J.B. Glaze Jr., T. Fife, and M. Nelson. 2011. Effect of birth weight, early intake, and average daily gain of calves before weaning, on their performance after weaning and during first lactation. Joint Annual Meeting ADSA, ASAS. New Orleans, Louisiana. July 10-14, 2011. (Poster).
- Moore, A., B. Brown, S. Hines, **M.E. de Haro Martí**, M. Chahine, C. Falen, J. Ippolito, and T. Fife. 2010. Interactions Between Heavy Manure Applications and Nutrient Uptake in Silage Corn. ASA-CSSA-SSSA International Annual Meeting Long Beach, California. October 31-November 4, 2010. (Poster).
- de Haro Martí, M.E. and J.A. Robbins. 2010. Composting School: An educational tool to bring together dairy producers and other community members. Joint Annual Meeting ADSA, PSA, AMPA, CSAS, ASAS. Denver, Colorado. July 11-15, 2010. (Poster).
- de Haro Martí, M.E., R.E. Sheffield, and M. Chahine. 2010. Emissions from a dairy waste management system in south-central Idaho. Joint Annual Meeting ADSA, PSA, AMPA, CSAS, ASAS. Denver, Colorado. July 11-15, 2010. (Poster).
- de Haro Martí, M.E. and J.A. Robbins. 2009. Composting School – Materials and Methods. National Association of County Agricultural Agents Annual Conference. Portland, Oregon. (Poster).
- Fife, T.E., M. Chahine, **M.E. de Haro Martí**, S.L. Hines, R.J. Norell, and S.C. Parkinson. 2009. Measuring Corn Silage Density Across Southern Idaho Using Three Different Methods. National Association of County Agricultural Agents Annual Conference. Portland, Oregon. (Poster).

State:

- de Haro Martí, M.E. University of Idaho Extension Display. Gooding County Fair. 2018, 2017, 2016, 2015, 2014, 2013, 2012, 2011, 2010, 2009, 2008.
- de Haro Martí, M.E. 2016. Dairy production and environmental management display. University of Idaho Extension Twilight Tour. Kimberly, Idaho. July 20, 2016.
- de Haro Martí, M.E., R. Norell, and M. Chahine. University of Idaho Extension Dairy Display. Ag Days, BYU. Rexburg, Idaho. June 18, 2015. May 22, 2014.
- de Haro Martí, M.E. College of Southern Idaho earth day sustainability expo display. Twin Falls, Idaho. April 22, 2015. April 22, 2013.

Displays and Posters. State (cont.)

- de Haro Martí, M.E. 2013. Vermicomposting for youth display. Gooding Library Story Telling at the Park. Gooding, Idaho. June 6, 2014.
- de Haro Martí, M.E., L. Chen, C.W. Gray, M. Chahine, H. Neibling, T. McCammon, A. Agenbroad, J. Eells, and S.K. Reddy Yadanaparthi. 2014. On-Farm Field Days as a Tool to Demonstrate Agricultural Waste Management Practices and Educate Producers. Idaho Nutrient Management Conference. Twin Falls, Idaho. March 6, 2014.. (Poster).
- de Haro Martí, M.E. and E. Wenninger. 2011. Idaho Insects of Interest Display.
 - University of Idaho Extension Twilight Tour. Kimberly, July 18, 2018.
 - Thousand Springs Festival. Wendell, Idaho. September 24-25, 2011.
 - Jerome Historical Society Days. Jerome, Idaho. September 17, 2011.
 - Gooding County Fair, 2017, 2016, 2015, 2014, 2013, 2012, 2011.
- de Haro Martí, M.E. UI Waste Management Research, University of Idaho Extension and Research Display. Kimberly R&E Center/Twin Falls R&E Center Twilight Tour. Kimberly, Idaho. July, 2012, 2010, 2009, 2008.
- de Haro Martí, M.E. University of Idaho Extension Display. Thousand Springs Festival. Wendell, Idaho. September 24-25, 2011. Also in 2009, 2008, 2007.
- de Haro Martí, M.E. and M. Chahine. University of Idaho Extension Display. Jerome Historical Society Days. Jerome, Idaho. September 17, 2011. Also in 2010, 2009.
- de Haro Martí, M.E. and L. Hunter. Composting and Environmental Education. University of Idaho Extension Display. Hailey Farmers Market. Hailey, Idaho. July 1, 2010.
- Chahine, M., **M. E. de Haro Martí**, S. St Hilaire, O. Pozo, and R. E. Sheffield. 2010. Black soldier fly larvae grown on cow manure. 2010 Nutrient Management Conference. Shoshone, Idaho, March 9, 2010. (Poster).
- de Haro Martí M.E., M., R.E. Sheffield, and M. Chahine. 2008. Air Emissions from a Dairy Wastewater Storage Pond, Manure Processing Area, and Composting Yard in Idaho. Poster, Nutrient Management Conference. Jerome, Idaho. March 4, 2008. (Poster).
- de Haro Martí, M.E., and R. Sheffield. 2005. Monitoring Dairy Emissions Using Open-path Ultraviolet Spectroscopy. Poster, Intermountain Conference on the Environment. Pocatello, Idaho. 2005. (Poster).

Professional Meeting Papers, Workshops:

- Sheffield, R. E. and **M.E. de Haro Martí**. 2007. PNWIS 2007 Conference. Powering the Future. October 17-19, 2007. Boise, Idaho. Served as Session Chair.
- Sheffield, R. E. and **M.E. de Haro Martí**. 2007. County-based odor management. Jerome County Planning and Zoning Board. Jerome, ID. June 26, 2007.
- Sheffield, R., M. Chahine, **M.E. de Haro Martí**, R. Norell, and K. Anderson. 2006. Vaca Verde / Green Cow: A bilingual environmental education program for dairy workers. Jerome ID. October 13 and November 17, 2006.
- de Haro Martí, M.E., and M. Muñoz. 1996. Solid Domestic Wastes, Centenario City Project. Solid Domestic Wastes- Problematic and Treatment Workshop. Neuquén, Argentina.
- de Haro Martí, M.E., and M. Muñoz. 1995. Environmental Impact of Activities of Hydrocarbon Exploitation. Neuquén, Argentina.

Grants and Contracts Awarded:**Funded:**

- Chahine, M., G. Ferreira, G. Shewmaker, S. Hines, and **M. E. de Haro-Martí**. 2018. Transferring knowledge to trainers on water conservation practices and their effects on forage quality to ensure environmental and economic sustainability of livestock production systems. Western SARE mini-grant. \$5,820
- Alessa, L., R. Lammers, A. Kliskey, E.J. Trammel, D. Griffith, S. Zuidema, A. Prousevitch, F. Liao, S. Dengler, **M.E. de Haro-Martí**, P. Williams, G. Villamor, S. Gilmore, and A. Davis. 2016-19. INFEWS/T3: Social-ecological-technological solutions to waste reuse in food, energy, and water systems (ReFEWS). National Science Foundation. \$2,698,207 (Spending authority \$71,000).

Grants and Contracts Awarded, Funded (cont.)

- Norell, R., J. Spencer, A. Ahmadzadeh, **M.E. de Haro-Martí**, and M. Chahine. 2017. Measuring electrical resistance of dairy cattle. Idaho Dairymen's Association. \$17,786.
- Tejeda, H., G. Ferreira, M. Chahine, R. Norell, **M.E. de Haro-Martí**, J. Hogge, R. Findlay, S. Harrison, J. Packham, S. Jensen, and S. Graf. 2017. Risk Assessment and Management Education for Dairy Farmers in the Western Region. USDA-NIFA. \$39,573.
- de Haro-Martí, M.E., R. Norell, H. Neibling, and L. Chen. 2017. Manure School: Land application of manure and other organic amendments. University of Idaho Extension Topic Team grant. \$5,000.
- de Haro-Martí, M.E., B. Messick, and T. Woodland. 2017. Cover crops field days at Gooding Community Garden. University of Idaho Extension Critical Issues grant. \$3,300.
- Chen, L., H. Neibling, **M.E. de Haro-Martí**, and S. Kulesza. 2017. Dairy Manure Solid/Nutrient Separation. University of Idaho Extension Critical Issues grant. \$4,999.
- Norell, R., M. Chahine, J. Dalton, M. E. de Haro-Martí, S. Jensen, and C. Matuk Sarinara. 2015. Developing short videos for training dairy workers. University of Idaho Extension Dairy Topic Team. \$3,750.
- de Haro-Martí, M.E., et al. 2014. Short videos as a tool to educate on Best Management Practices directed at reducing nitrates impact in Idaho surface and sub-surface waters. SWWAM Topic Team (15 collaborators). University of Idaho Extension Topic Team Grant. \$3,750.
- de Haro-Martí, M.E., M. Chahine L. Chen, and C. Matuk. 2013. Dairy on-farm composting school in Spanish and English. University of Idaho Extension Critical Issues grant. \$2,133.
- Chahine, M., R. Norell, J. Dalton, **M.E. de Haro Martí**, K.S. Jensen, C. Schneider, J.B. Glaze, G. Brumbaugh, and J.B. Hall. 2013. Dairy workers Top Ten guidelines to improve animal welfare. United Dairyman of Idaho. \$4,750.
- Chahine, M., R. Norell, J. Dalton, **M.E. de Haro Martí**, K.S. Jensen, C. Schneider, J.B. Glaze, G. Brumbaugh, and J.B. Hall. 2013. Dairy workers Top Ten guidelines to improve animal welfare. Idaho Beef Council. \$6,839.
- Chahine, M., R. Norell, J. Dalton, **M.E. de Haro Martí**, K.S. Jensen, C. Schneider, J.B. Glaze, G. Brumbaugh, and J.B. Hall. 2013. Developing a Dairy Animal Welfare Training for Dairy Workers in English and Spanish. University of Idaho Extension Topic Team grant. \$10,000.
- Agenbroad, A., Etter S, and **M.E. de Haro Martí**. 2013. Creating an Idaho Master Composter Program for Small Acreage Landowners, Producers, Agricultural Professionals and Extension Volunteers. University of Idaho-SARE Mini Grants. \$1,500.
- de Haro Martí, M.E. 2012. Gooding County Extension Summer Internship. University of Idaho Extension. \$5,000.
- Chahine, M., **M.E. de Haro Martí**, J. Dalton, R. Norell, S. Jensen, S. Etter, J. Packham. 2012. Training for Hispanic Dairy Middle Managers. University of Idaho Extension Topic Team grants. \$2,790.
- de Haro Martí, M.E., L. Chen, H. Neibling, M. Chahine. 2011, 2012. Using zeolites to control odor, air emissions, and nutrient retention on Idaho dairy operations. USDA- NRCS Idaho Conservation and Innovation Grants. \$66,202. (Full spending authority).
- de Haro Martí, M.E., T. McCammon, A. Agenbroad, L. Clayton. 2011. Composting of grape vines pruning: a solution for organic and conventional producers. USDA- NRCS Idaho Conservation and Innovation Grants. \$21,934. (Full spending authority).
- Chen, L., **M.E. de Haro Martí**, H. Neibling, M. Chahine, C.W. Gray. 2011. Demonstration and Evaluation of Alternative Manure Management Techniques in Southern Idaho. USDA- NRCS Conservation and Innovation Grants. \$31,249. (Spending authority \$32,249).
- Chen, L., S. Hoff, H. Neibling, **M.E. de Haro Martí**, B.B. He. W. Gray. 2011, 2012. Implementation of Biofiltration Technology. USDA-NRCS Conservation and Innovation Grants. \$328,328. (Spending authority \$202,758).
- Chahine, M. and **M.E. de Haro Martí**. 2011. Delivering Hispanic Educational Curriculum and Workshops to Dairy Workers that are Providing Animal Health Care on a Routine Basis. Sub-contract grant from Texas A&M and U.S. Department of Homeland Security. \$5,000. (Full spending authority).
- de Haro Martí, M.E. 2011. Forced aerated composting of dairy calf mortalities and slaughter wastes demonstration units. University of Idaho-SARE Mini Grants. \$1,000.

Grants and Contracts Awarded, Funded (cont.)

- de Haro Martí, M.E. 2010. Applying Video Technology as Extension Education Tool. University of Idaho Extension Critical Issues grant. \$1,350.
- de Haro Martí, M.E., E. Wenninger, and J.A. Robbins. 2010. Southern Idaho Insects of Interest Display. University of Idaho Extension Critical Issues grant. \$1,800.
- Moore, A., B. Brown, M. Chahine, R. Norell, **M.E. de Haro Martí**, C. Falen, T. Fife, and S. Hines. 2010. University of Idaho Extension Critical Issues grant. Nutrient accumulation of manured soils in Southern Idaho. \$3,000.
- de Haro Martí, M.E., and J. A. Robbins. 2008. Idaho Master Composter/Recycler Program. University of Idaho Extension Critical Issues grant. \$ 1,500.
- de Haro Martí, M.E. 2008. Sustainable Environmental Education in Wendell and Gooding. University of Idaho Extension Critical Issues grant. \$ 1,500.
- Chahine M., J. Dalton, **M.E. de Haro Martí**, S. Etter, T. Fife, S. Jensen, R. Norell, R. Wilson. 2008. Spanish and English Dairy Cattle/Calves Health Management Schools. University of Idaho Topic Team Grant. \$ 3,000.
- de Haro Martí, M.E., H. Neibling, and G. Wilson. 2008. Copper Removal Systems for Idaho Dairies. United Dairymen of Idaho. \$73,130. (Full spending authority). Cancelled by funding institution in 2009.
- de Haro Martí, M.E. 2007. Sustainable Environmental Education in Gooding County. University of Idaho Extension Critical Issues grant. \$ 3,000.
- de Haro Martí, M.E., and J. A. Robbins. 2007. Composting School. University of Idaho Extension Critical Issues grant. \$ 3,000.
- Hines, S., B. Brown, M. Chahine, **M.E. de Haro Martí**, C. Fallen, and A. Moore. 2007. Corn phosphorus uptake. University of Idaho Topic Team Grants. \$ 5,000.
- Chahine, M., and **M.E. de Haro Martí**. 2007. Survey of Hispanic employees working on Idaho dairies. University of Idaho Extension Critical Issues grant. \$ 3,000.
- de Haro Martí, M.E. Assumed as PI (2008) in the place of Sheffield, R.E. 2006. Drag Hose Injection and Incorporation Manure Management System. Dave Roper: Subcontract from USDA Natural Resources Conservation Service. Originally \$30,000. (Spending authority \$10,000).
- de Haro Martí, M.E. Assumed as PI (2008) in the place of Sheffield, R.E. 2005. Effect of the Installation of an Anaerobic Digester on Farmstead Odor and Air Emissions. United Dairymen of Idaho/Independent Dairy Environmental Action League. Originally \$80,050. (Spending authority \$40,000).
- St. Claire, S., J. Tomberlin, C. Sheppard, R. Sheffield, R. Hardy, W. Sealey, M. Chahine, **M.E. de Haro Martí**, and T. Peterson. 2007. Black Soldier Fly Larvae as a Tool for Managing Animal Waste and Providing a Food Source for Aquaculture Industries. Western Sustainable Agriculture Research and Extension (WSARE). \$133,169. (Spending authority \$60,000).
- Chahine, M., A. Hristov, S. Etter, R. Norell, and **M.E. de Haro Martí**. 2007. Effect of silage management on corn silage quality and nutritive value. University of Idaho Extension Critical Issues grant Critical Issue Grant. \$ 2,100.
- Norell, R., M. Chahine, S. Parkinson, J. Packham, S. Etter, and **M.E. de Haro Martí**. 2007. Measuring density of corn silage and haylage. University of Idaho Topic Team Grant. \$ 2,100.
- Hristov, A., R. Norell, J. Dalton, M. Chahine, R. Sheffield, and **M.E. de Haro Martí**. 2007. Reducing Ammonia Emissions from Dairy Manure Through Dietary Manipulation. United Dairymen of Idaho Pre-harvest grants. \$74,766. (Spending authority \$30,000).

Grants and Contracts, Pending

- McGuire, M.A., and 29 collaborators including **M.E. de Haro Martí**. 2018. Creating a new industry for dairies in the arid American West to replace commercial fertilizer, enhance productivity of crops and cow, and create new job opportunities. USDA-NIFA Sustainable Agricultural Systems program. \$9,998,480. (Spending authority \$420,000).
- Tejeda, H., G. Ferreira, M. Chahine, R. Norell, **M.E. de Haro Martí**, A. Westerhold, S. Jensen, M.K. Kim, R. Larsen, J. Dallin, and K. Chapman. 2018. Hands-on Educational Workshops to Improve Risk Management and Financial Decision-Making for Dairy Farmers in the Western Region. NIFA-USDA Western Extension Risk Management Education Center. \$49,998

Non-Funded:

- de Haro Martí, M.E. 2017. Recycling at the Fair and community recycling education. Quadratec – “Energize the Environment” grant. \$3,500.
- Coats E.R., **M.E. de Haro Martí**, and N.M. Guho. 2016. Toward Commercial Production of Bioplastics on Agricultural Byproducts Streams. Western Sustainable Agriculture Research and Extension (WSARE), Research & Education Grant Pre-proposal.
- Anne L., Rezamand, P., M. Chahine, R. Norell, **M. E. de Haro-Martí**, Ahmadzadeh, A, and Chibisa, G. 2016. Reducing Ammonia Emissions And Sodium Excretion Through Incorporating Zeolite Into Dairy Cattle Diets. Western Sustainable Agriculture Research and Extension (WSARE), Research & Education Grant Pre-proposal.
- Freiberg, B. and **M. E. de Haro-Martí**. 2016. Battling noxious weeds on agricultural land using bio-control methods by encouraging WAMS youth with hands-on STEM skills to go to college. USDA-National Institute of Food and agriculture NIFA. \$99,488.
- Rezamand, P., R. Norell, M. Chahine, **M. E. de Haro-Martí**, and L. Chen. 2015. Effect of feeding zeolite on odor control and gas emissions of dairy manure. ifeeder. \$98,560.
- Emberston, N., E. Cortus, A. Schmidt, **M.E. de Haro Martí**, and T. Vander Dussen. 2013. Mapping the Pathways for Effective Information Dissemination and Education between Manure Nutrient Management Agriculture Professionals. Western Sustainable Agriculture Research and Extension (WSARE), Professional Development Grant. \$61,614. (Spending authority \$10,000).
- de Haro Martí, M.E. 2011. Community gleaning project. University of Idaho Extension Critical Issues grant. \$2,887.
- de Haro Martí, M.E. 2011. County Fairs and other events recycling collection trailer. University of Idaho Extension Critical Issues grant. \$2,600.
- de Haro Martí, M.E. and J.A. Robbins. 2010. Developing the production and use of vermicompost and vermicompost teas as a sustainable practice in Idaho. USDA-WSARE Professional-Producer grants. \$46,990.
- Chahine, M., P. Rezamand, **M.E. de Haro Martí**, L. Chen, R. Norell, W. Gray. 2010. Using zeolite to control gas emissions and odor from dairies in Idaho. USDA- NRCS Conservation and Innovation Grants. \$137,737.
- Chahine, M., E. Wenninger, **M.E. de Haro Martí**, W. Gray, G. Fornshell, L. Chen. 2010. Black Soldier Fly: Adapting a Manure Management Tool to Cold Climates. USDA-WSARE grants. \$ 162,580.
- Chahine, M., P. Rezamand, N. Norell, **M.E. de Haro Martí**, L. Chen. 2010. Effect of Feeding Zeolite on Odor Control and Gas Emissions on Dairy Manure. United Dairymen of Idaho Environmental Grants. \$77,500.
- Chen, L., S. Chen, M. Chahine, and **M.E. de Haro Martí**. 2010. Treatment of Dairy Manure With Anaerobic Digestion. United Dairymen of Idaho Environmental Grants. \$213,008.
- Chahine, M., **M.E. de Haro Martí**, and T. Fife. 2010. Dairy Video Clips: An Educational Tool for Dairy Producers and Employees. United Dairymen of Idaho Education/Extension Grants. \$24,000.
- de Haro Martí, M.E. 2010. Composting School for Dairy/Livestock Producers. United Dairymen of Idaho Education/Extension Grants. \$22,000.
- de Haro Martí, M. E., W. Gray, and A. Moore. 2010. Idaho Manure and Compost Trade Directory. United Dairymen of Idaho Education-Environmental Research Grants. \$9,000.
- Chahine, M., E. Wenninger, and **M.E. de Haro Martí**. 2009. Black Soldier Fly: Adapting a manure management tool to cold climates. USDA-WSARE grants. \$ 154,520.
- Chahine, M. and **M.E. de Haro Martí**. 2008. Effect of Zeolite on odor control and gas emissions on Idaho dairies. United Dairymen of Idaho Environmental Grants. \$85,780.
- de Haro Martí, M.E., C. Falen, M. Chahine, and T. Hess. 2008. Comparison of composting techniques and best management practices education for Idaho Dairies. United Dairymen of Idaho Environmental Grants. \$59,700.
- Chahine, M., **M.E. de Haro Martí**, S. St-Hilaire, and R. Norell. 2008. Black soldier fly larvae as a tool for managing dairy manure. United Dairymen of Idaho Environmental Grants. \$125,750.

Grants and Contracts Awarded, Non-Funded (cont.)

- Moore, A., M. Chahine, and **M. E. de Haro Martí**. 2008. Comprehensive analysis of Idaho dairy manure. United Dairymen of Idaho Environmental Grants. \$45,510.
- Chahine, M., **M. de Haro Martí**, S. Etter, T. Fife, and R. Norell. 2007. Health management of dairy cattle - a training curriculum. University of Idaho Topic Team Grants. \$ 5,000.
- Sheffield, R., **M.E. de Haro Martí**, and D. Parker. 2007. Ammonia Control BMPs for Open Lots Dairies. United Dairymen of Idaho. \$86,600.
- Sheffield, R., and **M.E. de Haro Martí**. 2007. Enhanced Manure Separation and Phosphorous Removal for Idaho Flush Dairies. United Dairymen of Idaho. \$86,600.
- Chahine, M., R. Sheffield, and **M.E. de Haro Martí**. 2007. From feed to milk: A dairy trailer educational exhibit. United Dairymen of Idaho Pre-harvest grants. \$30,000.
- Hristov, A., R. Norell, J. Dalton, M. Chahine, R. Sheffield, and **M.E. de Haro Martí**. 2007. Reducing ammonia emissions from dairy manure through dietary manipulation. USDA-WSARE grants \$76,000.
- de Haro Martí, M.E. 2007. Sustainable Education in Gooding County. University of Idaho Sustainability Center. \$7,400.
- Chahine, M., A. Leytem, R. Sheffield, D. Tarkalson, and **M.E. de Haro Martí**. 2007. Survey of hormone/steroid concentrations throughout the production facility of large scale dairies in Southern Idaho. United Dairymen of Idaho. \$108,900.

Non-Competitive grants and stipends funded:

- de Haro Martí, M.E. University of Idaho Extension UI Student Paid Summer Internship, 400 hours. 2018, 2017, 2016, 2015, 2013, 2012. \$5,000 each year.
- de Haro Martí, M.E. 2015. University of Idaho Extension travel stipend. \$500.
- Chahine, M., A. Bach, and M.E. de Haro Martí. 2013. Effect of blood plasma supplementation on production and reproduction of multiparous dairy cows. IRTA (Institute of Agriculture Research and Technology). Barcelona, Spain. \$48,000 (gift), (Spending authority 12,000).
- de Haro Martí, M.E. 2009. Contribution to the Idaho Western Odor and Air Quality Education Program. United Dairymen of Idaho. \$ 1,000.
- de Haro Martí, M.E. 2009. Contribution to the Idaho Western Odor and Air Quality Education Program. Jerome County Commissioners. \$ 200.
- de Haro Martí, M.E. 2009. University of Idaho Extension stipend scholarship. 2009 National Association of County Agriculture Agents Annual Meeting and Professional Improvement Conference, \$300.

Honors and Awards:

- Gamma Sigma Delta. The Honor Society of Agriculture. 2009. By invitation only.
- Golden Key International Honour Society. Top 15% of 2007 College graduates. By invitation only.

SERVICE:**Major Committee Assignments:****National/Regional:**

- Livestock and Poultry Environmental Learning Center (LPELC) working group. 2013-Present.
Topic Teams.
- Air Quality.
- Manure Storage and Treatment.
- Pathways Project. 2013-2016.
- e-Xtension Ask the Expert – Waste Management . 2008-Present. <https://faq.extension.org>
- Idaho and National Veterinary Stockpile Full Scale Exercise. Jerome, Idaho. Participant (by invitation only). August 24, 2016.
- Western Initiative for the Dairy Environment (WIDE). 2014 - Present
- Animal Agriculture and Climate Change Western Region Advisory working group. 2012-2016.
- Western Region Dairy Odor and Air Quality Education, SARE working group. 2008 – 2012.

Major Committee Assignments (cont.)

Pacific Northwest Climate Decision Support Consortium (CDSC) Stakeholder Meetings. 2011.
National Research Initiative. Air Quality Project Committee. 2007 - 2009.

State:

Twin Falls Ground Water Quality Advisory Committee. Advisor. 2017-present.
Gooding County P&Z Comprehensive County Plan Committee. Advisor. 2016 - 2017.
Gooding County Soil Conservation District. Extension Advisor. 2015 – Present.
Gooding County 4-H Leader's Council. UI Extension County Chair duties. 2015 – Present.
Gooding County Department Chairs Committee. UI Extension County Chair duties. 2015 – Present.
City of Twin Falls Latino/Hispanic community focus group. 2015 – Present.
Idaho Association of County Agricultural Agents Climate and Agriculture Sessions Chair. 2015 – Present.
Middle Snake Regional Water Resource Commission. Technical advisor. 2008 – Present.
Idaho Agricultural Pollution Abatement Plan review committee. University of Idaho technical representative. 2014 - 2015.

College:

College of Agricultural and Life Sciences CALS Plan Planning and Reporting Committee. 2018.
College of Agricultural and Life Sciences Internship Guidelines Committee. 2017.
College of Agricultural and Life Sciences Dairy Topic Team. 2007 - Present.
College of Agricultural and Life Sciences Soil, Water, Waste, Air Management (SWWAM) Topic team. Team co-leader 2011-2017. 2007 - Present.
Idaho Nutrient Management Conference Planning Committee. 2018. 2013-16 (Committee Chair). 2007, 2012 (Committee co-leader).
Dr. Paul Lewin third year review committee. University of Idaho, College of Agricultural and Life Sciences, Department of Agricultural Economics and Rural Sociology. 2014.
Dr. Lide Chen third year review committee. University of Idaho, College of Agricultural and Life Sciences, Department of Biological and Agricultural Engineering. 2012.

Professional and Scholarly Organizations:

Xi Sigma Pi. The International Natural Resources Honor Society. 2018.
Gamma Sigma Delta. The Honor Society of Agriculture. 2009 – Present.
National Association of County Agricultural Agents. 2007 – Present.
Idaho Association of County Agricultural Agents. 2007 – Present.
American Society of Agricultural and Biological Engineers (ASABE). 2006 – Present.
American Dairy Science Association (ADSA). 2006 – 2017.
Golden Key International Honour Society. 2007 – 2014.
National Mastitis Council (NMC). 2007-2013. Education Committee. 2011-2013.
Neuquén and Río Negro Professional Association. Argentina. 1995 – 2001.
Concejo Profesional de Agrimensura e Ingeniería del Neuquén. Argentina 1995 – 2001. (Neuquén Geology and Engineering Professional Council).

Outreach Service:**Classes, Workshops, Seminars, Share Fairs and Tours Organized:**

Chahine, M., G. Ferreira, G. Shewmaker, S. Hines, and **M. E. de Haro-Martí**. 2018. Water stressed corn silage demonstration field day. Kimberly, ID. September 13, 2018.
Messick, B., D. Romer, K. Dennis, and **M.E. de Haro-Martí**. 2018. No till drill demo day. Bliss, ID. July 24, 2018.
de Haro Martí, M.E. 2018. Ph.D. Dissertation. Twin Falls, ID. April 19, 2018.

Classes, Workshops, Seminars, Share Fairs and Tours Organized (cont.)

- A. Kliskey, E.J. Trammel, D. Griffith, S. Dengler, **M.E. de Haro-Martí**, P. Williams, G. Villamor, and A. Davis. 2016-19. Stakeholder meeting and working group for INFEWS/T3: Social-ecological-technological solutions to waste reuse in food, energy, and water systems (ReFEWS). Twin Falls, ID.
 - May 23.
 - March 14.
 - November 9, 2017.
- de Haro Martí, M.E. 2018. INFEWS Magic Valley dairy and irrigation Tour. Magic Valley, ID. March 12, 2018.
- de Haro Martí, M.E. 2018. Dairy Middle Management Training and Round Table in Spanish. Twin Falls, ID.
 - Financial and enterprise management on dairies and agricultural operations to ensure the company sustainability. G. Ferreira. March 8.
- Tejeda, H., G. Ferreira, M. Chahine, **M.E. de Haro-Martí**, J. Packham. 2017-18. Risk Assessment and Management Education for Dairy Farmers in the Western Region. Twin Falls, ID. Session I, November 16, 2017. Session II, January 24, 2018. Session III, March 7, 2018.
- de Haro Martí, M.E. 2017. Mexico's dairy education and service company dairy tour. Magic Valley, Idaho. February 6, 2018.
- de Haro Martí, M.E. 2017. Cover crops field day. Gooding, ID. October 23, 2017.
- de Haro Martí, M.E. 2017. Dairy and irrigation tour for INFEWS researchers. Magic Valley. October 4, 2017.
- de Haro Martí, M.E. 2017. Dairy goat and sheep workshop. Gooding, ID. July 25, 2017.
- de Haro Martí, M.E. 2017. Manure and compost application workshop. Buhl, ID. July 12, 2017.
- de Haro Martí, M.E. 2017. UI-CALS Dean's office dairy tour. Jerome, Idaho. June 6, 2017.
- Wilmore, C., **M.E. de Haro Martí**, J. Packham, and B. Eborn. 2017. Goat Dairies Tour. Kimberly and Twin Falls, ID. May 17, 2017.
- de Haro Martí, M.E. 2017. Argentinean ag students' dairy tour. Magic Valley, Idaho. March 15, 2017.
- de Haro Martí, M.E. 2017. Dairy Middle Management Training and Round Table in Spanish. Twin Falls, ID.
 - "MOO Signs". Understanding what your cows are telling you! M. Rovai and M. Chahine. July 27.
 - Use of genetic principles in livestock production and Use of Beef Quality Assurance protocols on dairies. B. Glaze. June 15.
 - Genomics and Fertility. J. Dalton. May 18.
 - How To Evaluate Dairy Facilities. R. Norell. March 30.
 - The Link Between Mammary Gland Physiology and Mastitis (with udder dissection). M. Rovai. February 16.
- Chahine, M. and **M.E. de Haro Martí**. 2017. Spanish Milker School (Escuela de Ordeño).
 - Jerome, Idaho. April 7.
 - Preston, Idaho. April 12.
- McCammon, T. and **M.E. de Haro Martí**. 2017. Master Gardener Diagnostic Training. University of Idaho Extension. Gooding, Idaho. May 10, 2017.
- Boatwright L., C. Kinder and **M.E. de Haro Martí**. 2017. Gooding 4-H pig weigh in. Gooding, ID. May 5, 2017.
- de Haro Martí, M.E. and Patten, M. 2016. Idaho dairy processor-producers' capacity evaluation and networking day. Gooding, Idaho. September 29, 2016.
- de Haro Martí, M.E. 2016. International scholars' dairy tour. Magic Valley, Idaho. July 18, 2016.
- de Haro Martí, M.E. 2016. Dairy goat and sheep workshop. Gooding, Idaho. July 15, 2016.
- de Haro Martí, M.E. 2016. U.S. entrepreneur dairy tour. Buhl, Idaho. June 30, 2016.
- McCammon, T. and **M.E. de Haro Martí**. 2016. Master Gardener Diagnostic Training. University of Idaho Extension. Gooding, Idaho. April 21, 2016.
- de Haro Martí, M.E. 2016. Idaho Nutrient Management Conference. Jerome, Idaho. March 10, 2016.

Classes, Workshops, Seminars, Share Fairs and Tours Organized (cont.)

- de Haro Martí, M.E., S. Hines, T. McCammon, M. Chahine, C. Moreno, and L. Arias. 2016. Hispanic worker's protection and safety program (Spanish). Jerome, Idaho. March 8, 2016.
- de Haro Martí, M.E. and C. Kinder. 2016. Enroll Idaho, how to pay for college night. January 19, 2016.
- de Haro Martí, M.E. 2015. Ammonia and odor filtration from flushed dairy manure + solid separation by centrifuge + manure injection using a drag hose system field day. Buhl, Idaho. November 10, 2015.
- de Haro Martí, M.E. 2015. Cover Crops Field Day. Gooding, Idaho. One Idaho Pesticide Recertification credit. October 20, 2015.
- Chahine, M. and **M.E. de Haro Martí**. 2015 Dairy tour for Spanish dairy producers. Twin Falls, Idaho September 21, 2015.
- de Haro Martí, M.E., A. Moore-Kriwox, and G.K. Gill. 2015. University of Idaho Extension Summer Internship at Gooding County presentation. September 25, 2015.
- de Haro Martí, M.E. 2015. Extension at the Library Series. Gooding, Idaho.
- Composting at home. de Haro Martí, M.E. May 16.
 - Rain and gray water collection and use. de Haro Martí, M.E. April 11.
 - Water wise landscaping. McCammon T. March 7.
- de Haro Martí, M.E. and A. Moore. 2014. Idaho Nutrient Management Conference. Twin Falls, Idaho. March 6, 2014.
- Chen, L., **M.E. de Haro Martí**, G.K. Kafle, and S.K. Reddy Yadanaparathi. 2013. Implementation of Biofiltration Technology field day. Kimberly, Idaho. November 5, 2013.
- de Haro Martí, M.E. and T. Woodland. Gooding Schools Kitchen Waste Recycling Program. Gooding, Idaho. 2010 – present.
- de Haro Martí, M.E., A. Agenbroad, T. McCammon. 2013. Composting of grape vine prunings and dairy manure field day and research demonstration. Emmett, Idaho. September 10, 2013.
- de Haro Martí, M.E. and C. Pantone. 2013. Gooding Community Garden Summer Presentation Series. Gooding, Idaho.
- Canning and Preserving. August 1.
 - Using Gardening for Intergenerational Communication. July 25.
 - Xeriscaping. July 11.
 - Rotation Crops: What to Plant at the Community Garden. June 27.
- de Haro Martí, M.E., P. Lewin, and W. Braak. 2013. Community Development Workshop. Gooding, Idaho. March 21, 2013.
- de Haro Martí, M.E. and L. Chen. 2012. Dairy manure land application field day. Buhl, Idaho. October 30, 2012.
- Miller, J., and M.E., de Haro Martí. 2012. Northwest Center for Alternatives to Pesticides (NCAP) – University of Idaho Extension Organic Field Day, Rocky Fence Vineyard. Emmett, Idaho. September 27, 2012.
- de Haro Martí, M.E. and L. Chen. 2012. Manure collection and composting field day. Jerome, Idaho. July 24, 2012.
- de Haro Martí, M.E., M. Orr, and J. Eells. 2012. Gooding Community Garden talks. Gooding, Idaho.
- Native plants and wildflowers. August 2.
 - Composting. July 19.
 - Ten essential herbs for your garden. July 3.
 - Soils. June 12.
- de Haro Martí, M.E. and W. Gray. 2012. Idaho dairy tour for Russian and Ukrainian dairy producers and allied industry. June 6-7, 2012.
- Chahine, M., C. Matuk, B. Ozer, B. Glaze, and **M.E. de Haro Martí**. Hands-on workshop on checking the dairy cow health. Jerome, Idaho. May 31, 2012.
- de Haro Martí, M.E. 2012. Energy, Water & Soil on your Farm Operation Workshop. Gooding, Idaho. March 29, 2012.
- Chahine, M., **M.E. de Haro Martí**, and C. Matuk. 2013, 2012, 2011. Dairy Middle Management Round Table (Spanish and English).
- Manure management on Idaho dairies, and On-farm composting methods. Twin Falls, Idaho. January 24, 2013.

- Environmental Mastitis. Twin Falls, Idaho. December 13, 2012.

Classes, Workshops, Seminars, Share Fairs and Tours Organized (cont.)

- Feed bunk management and TMR mixer operation on dairies. Twin Falls, Idaho. October 11, 2012.
 - Reproductive programs for dairy heifers. Twin Falls, Idaho. June 21, 2012.
 - The impact of cow health in quality defects in dairy cows. Twin Falls, Idaho. May 31, 2012.
 - Dairy facilities and cow comfort II. Twin Falls, Idaho. April 26, 2012.
 - Benchmarking in dairy herds. Twin falls, Idaho. March, 22, 2012.
 - Cow and calf management at parturition. Twin Falls, Idaho. February 23, 2012.
 - Dairy facilities and cow comfort. Twin Falls, Idaho. January 19, 2012.
 - Managing transition dairy cows. Twin Falls, Idaho. December 8, 2011.
 - Dairy cow synchronization protocols. Twin Falls, Idaho. October 27, 2011.
 - Vaccines use and management. Twin Falls, Idaho. September 22, 2011.
- Chahine, M., **M.E. de Haro Martí**, and C. Matuk. 2012. Idaho dairy tour for Spanish dairy producers and allied industry. March 14-15, 2012.
- Moore A. and **M.E. de Haro Martí**. 2012. Idaho Nutrient Management Conference. Jerome, Idaho. March 6, 2012.
- Chahine, M. and **M.E. de Haro Martí**. 2011. Three day Milker Certification Training (Spanish). International Conference on Reproduction and Nutrition of Dairy Cows. Tepatitlán, Jalisco, México, September 28-30, 2011.
- Chahine, M., **M.E. de Haro Martí**, and C. Matuk. 2011. Crossover Meetings. Drug Residue Avoidance in Dairy Cows. Jerome, Idaho, August 24, 2011.
- de Haro Martí, M.E. 2011. Recycling at the Fair.
- Gooding County Fair, Idaho. August 14-19, 2017. August 15-20, 2016. August 17-22, 2015. August 11-16, 2014. August 12-17, 2013. August 13-18, 2012. August 15-20, 2011.
 - Blaine County Fair, Idaho. August 9-13, 2011.
 - Camas County Fair, Idaho. August 3-7, 2011.
 - Lincoln County Fair, Idaho. July 25-31, 2011.
- Matuk, C., B. Ozer, B. Glaze, and **de Haro Martí, M.E.** 2012. Health assessment in dairy cows – a hands-on seminar. Jerome, Idaho. May 31, 2012.
- de Haro Martí, M.E. 2011. Vermicomposting for 4-H Junior Master Gardeners. Gooding, July 18, 2011. Hands-on Class.
- de Haro Martí, M.E. and J. Eells. 2011. Vermicomposting for everyone! and UI Display. Arbor Day Celebration. Gooding, Idaho, May 6, 2011.
- de Haro Martí, M.E. 2011. Milner-Butte Landfill tour. Burley, Idaho, March 24, 2011. Field day.
- Chahine, M., **M.E. de Haro Martí**, and C. Matuk. 2011. Protecting the Milk Supply Workshop (Spanish and English). Jerome, Idaho, March 16, 2011.
- Hunting, D. and **M.E. de Haro Martí**. 2011. Dairy Compost Field Day. Jerome, Idaho, March 1, 2011. Field day.
- de Haro Martí, M.E. and J.A. Robbins. 2011. Idaho Master Composter and Recycler. Jerome, Idaho. Weekly Meetings from February 2 to March 16, 2011.
- de Haro Martí, M.E. and M. Chahine. 2010. NC1042 Management Systems to Improve the Economic and Environmental Sustainability of Dairy Enterprises Group. Southern Idaho Dairy and Calf Facilities Tour. October 16, 2010. Tour.
- de Haro Martí, M.E. 2010. Introductory Professional Dairy Facilities Tour. August 26, 2010. Tour.
- de Haro Martí, M.E. 2010. Recycling at the Fair. Gooding County Fair, Idaho. August 16 to 21, 2010.
- de Haro Martí, M.E. 2010. Milner-Butte Landfill visit. Burley, Idaho, April 9, 2010. Field day.
- de Haro Martí, M.E. and J.A. Robbins. 2010. Idaho Master Composter and Recycler. Wendell, Idaho. Weekly Meetings from February 10 to March 17, 2010.
- de Haro Martí, M.E. 2009. Recycling at the Gooding County Fair. Pilot program. Gooding, Idaho. August 17-22, 2009.
- de Haro Martí, M.E. 2009. Western Odor and Air Quality Education Program for the State of Idaho. Twin Falls, Idaho. June 15-16, 2009.

de Haro Martí, M.E. and J.A. Robbins. 2008. Composting School-Materials and Methods. Gooding, Idaho. August 26 and September 24, 2008.

Classes, Workshops, Seminars, Share Fairs and Tours Organized (cont.)

Chahine M., R. Norell, and **M.E. de Haro Martí**. 2008. TMR mixing – Feeder school (Spanish). Preston, Idaho. March 20, 2008.

Chahine M., R. Norell, and **M.E. de Haro Martí**. 2008. TMR mixing – Feeder school (English). Preston, Idaho. March 20th, 2008.

Dalton, J, K. S. Jensen, M. Chahine, **M. de Haro Martí**. 2007. Artificial Insemination Course. University of Idaho Twin Falls R&E Center/ Si-Ellen Farms. December 10, 11, 13, 2007.

Chahine, M., **M. E. de Haro Martí**, T. Fife. 2007. Hoof Trimming Workshop (Spanish). Si-Ellen Farms, Jerome. November 29, 2007.

Chahine, M., **M. E. de Haro Martí**, T. Fife. 2007. Hoof Trimming Workshop (English). Si-Ellen Farms, Jerome. November 28, 2007.

Chahine M., R. Norell, and **M.E. de Haro Martí**. 2008. TMR Mixing/Feeding School (English). Gooding Idaho. September 26.

Chahine M., R. Norell, and **M.E. de Haro Martí**. 2008. TMR Mixing/Feeding School (Spanish). Gooding Idaho. September 25.

Other outreach service:

de Haro Martí, M.E. and N. Pratt. 2018. University of Idaho Extension Gooding County Civil Rights Review.

de Haro Martí, M.E. 2017. Individual dairy farm evaluation and technical assistance. Jerome, ID. April 7, 2017.

de Haro Martí, M.E. 2014-Present. Gooding County. Master Gardener Clinics and individuals MG leader.

de Haro Martí, M.E. 2013-Present. Gooding County. Master Food Preserver Clinics and individuals MFP leader.

Miscellaneous Extension Publications:

de Haro Martí M.E. and C. Pantone. 2013. Gooding Community Garden Newsletter. Volume II, Issues 1-4. May to August, 2013.

de Haro Martí M.E. and M. Orr. 2012. Gooding Community Garden Newsletter Volume I, Issue 1. May 2012.

Chahine, M., Norell, R. J. and **M.E. de Haro Martí**. 2007. TMR-Mixing/dairy cows feeding handbook. University of Idaho Extension.

Chahine, M., Norell, R. J. and **M.E. de Haro Martí**. 2007. Escuela de preparación de raciones y alimentación. University of Idaho Extension.

Popular Press:

de Haro Martí, M. E. 2014. The Extension Corner. How the University of Idaho Extension serves the community in the Magic Valley? (Spanish). Idaho Noticias. Periodic in Spanish. Burley, Idaho. December 2014.

de Haro Martí, M. E. 2014. The Extension Corner. What is Extension? (Spanish). Idaho Noticias. Periodic in Spanish. Burley, Idaho. November 2014.

Chahine, M. and **M. E. de Haro Martí**. 2011. Ten Management Don'ts for Your Dairy. Dairy Today eUpdate August 29, 2011.

de Haro Martí, M. E. 2011. Little Gestures go a Long way With Your Workers. Dairy Today eUpdate May 22, 2011.

de Haro Martí, M. E. and M. Chahine. 2011. ¿Cómo reducir el recuento de células somáticas? (How to reduce somatic cell counts?). PYMES Lácteas, Argentina. February 2011.

<http://www.pymeslacteas.com.ar/articulos.php?id=381#>

Chahine, M. and **M. E. de Haro Martí**. 2011. Creating a positive work environment for your Hispanic employees. Dairy Today eUpdate February 7, 2011.

de Haro Martí, M. E. and M. Chahine. 2011; ¿Cómo reducir el recuento de células somáticas? (How to reduce somatic cell counts?). Ganadería.com, México. January 2011.

http://www.ganaderia.com.mx/ganaderia/home/articulos_int.asp?cve_art=651

Popular Press (cont.)

Moore, A., B. Brown, **M.E. de Haro Martí**, C. Falen, M. Chahine, T. Fife, R. Norell, and J. Ippolito. 2010. Phosphorus Removal by Silage Corn in Idaho. Nutrient Digest Newsletter. Volume 2(3). Spring 2010.

Chahine, M., **M. E. de Haro Martí**, S. St. Hilaire, and W. Sealy. 2009. Black soldier larvae: A strange but effective tool for managing dairy manure. University of Idaho Nutrient Digest. Volume 1, issue 3.

de Haro Martí, M.E. and M. Chahine. 2008. Garbage disposal on dairies. Extension Focus. July/August. p 4.

Chahine, M., and **M.E. de Haro Martí**. 2006. Disposición de Basuras en Lecherías/ Garbage Disposal on Dairies. El Lechero/ The Dairyman. Volume 1. No 4. (Written in both Spanish and English).

Interview Articles:

Kryzanowski, T. 2016. Fighting odors with Zeolite. Scrubbers containing the same material used in cat litter give hope to farms under pressure to control odor. Manure Manager. September 2016.

Dumas, C.R. 2016. Zeolites filter showing results in capturing ammonia, odors. Capital Press. November 15, 2015.

McKevitt, K. 2015. Sustainability Fair an example of sustainable life. Valley Press. May 2015.

Munniksma, L. 2013. Poop Happens. Hobby Farms. November/December 2013.

McGovern C. 2013. U of I researchers studying dairy odor control. Idaho Business Review. August 5, 2013.

O'Connell, J. 2012. Researches study benefits of composting vine prunings. Capital Press. August 3, 2012. <http://www.capitalpress.com/print/JO-VineyardMulch-080212>.

Loftus, W. 2012. Nutrient management a conference topic. AgKnowledge. February 2012, #274.

Snyder C. 2009. Larvae may offer manure help. Ag Weekly. January 31, 2009. Hard copy, Vol. 19, 3, pg. 30. Online

<http://www.agweekly.com/articles/2009/03/18/commodities/dairy/dairy21.txt>

Research center welcomes visitors. Capital Press, August 1, 2008.

Fritz, M. 2008. New Hires – Mario. Programs & People. University of Idaho, College of Agricultural & Life Sciences. Winter 2008.

Helping dairies, Hispanics, youth. Programs & People. University of Idaho, College of Agricultural & Life Sciences. Winter 2008.

Fritz, M. 2007. Mario de Haro Martí Joins Extension in Gooding County. Extension Focus Volume 22, Number 5. September/October 2007.

Hanson, M. 2007. New Extension agent flies in with interesting background. Gooding County Leader. Volume 99, Number 38. September 20, 2007.

Media Presentations:

Vermeer National Dairy Compost Press Event. Boise, Idaho, October 30-31, 2011.

Web Pages and Social Media:

de Haro Martí, M.E. 2016-present. Gooding County, Extension Office section web page leader.

<http://goodingcounty.org/196/Extension-4-H-Office>

de Haro Martí, M.E. 2014-present. University of Idaho Extension Dairy and Waste/Nutrient Management Facebook page domain leader.

<https://www.facebook.com/UIExtensionDairyEnvironmentalEd/?ref=hl>

de Haro Martí, M.E. 2017-present. University of Idaho Extension Nutrient Management webpage domain leader. <http://www.extension.uidaho.edu/nutrient/index.html>

de Haro Martí, M.E. 2014-2016. University of Idaho Extension Nutrient Management webpage collaborator in charge of Manure Management section.
<http://www.extension.uidaho.edu/nutrient/index.html>

Web Pages and Social Media (cont.)

de Haro Martí, M.E. 2014-present. University of Idaho Extension Gooding Extension Office Facebook page collaborator. <https://www.facebook.com/UIExtensionGooding?ref=hl>
 de Haro Martí, M.E. 2008-present. University of Idaho Extension Gooding County web page domain leader. <http://extension.ag.uidaho.edu/gooding>

Applied Research/Demonstration Trials:

Chahine, M., G. Ferreira, G. Shewmaker, S. Hines, and **M. E. de Haro-Martí**. 2018. Transferring knowledge to trainers on water conservation practices and their effects on forage quality to ensure environmental and economic sustainability of livestock production systems. Applied research and demonstration trial.

Alessa, L., R. Lammers, A. Kliskey, E.J. Trammel, D. Griffith, S. Zuidema, A. Proussevitch, F. Liao, S. Dengler, **M.E. de Haro-Martí**, P. Williams, G. Villamor, S. Gilmore, and A. Davis. 2016-19. INFEWS/T3: Social-ecological-technological solutions to waste reuse in food, energy, and water systems (ReFEWS). Multistate applied research.

Norell, R., J. Spencer, A. Ahmadzadeh, **M.E. de Haro-Martí**, M. Chahine. 2017-18. Characterization of the electrical resistance of adult dairy cattle in southern Idaho using a 500 ohm shunt resistor. Applied research trial.

de Haro-Martí, M.E., B. Messick, T. Woodland. 2015-19. Summer and winter cover crops demonstration plots. Gooding Community Garden, Idaho. Demonstration trial.

Chen, L., H. Neibling, **M.E. de Haro-Martí**, and S. Kulesza. 2017. Dairy Manure Solid/Nutrient Separation. Applied research trial.

de Haro-Martí, M.E. 2016-17. Corn greenhouse trial using zeolite enhanced compost. Gooding, Idaho. Applied research trial.

de Haro-Martí, M.E., L. Chen, H. Neibling, and M. Chahine. 2012-15. Using zeolites to control odor, air emissions, and nutrient retention on Idaho dairy operations. Applied research trial. Gooding and Buhl, Idaho.

Chahine, M., A. Bach, **M.E. de Haro-Martí**, and C. Matuk. 2013. Effect of blood plasma supplementation on production and reproduction of multiparous dairy cows. Applied research trial. Buhl, Idaho.

Chen, L., S. Hoff, H. Neibling, **M.E. de Haro-Martí**, B.B. He. W. Gray. 2012-13. Implementation of Biofiltration Technology. Applied research and demonstration. Idaho and Iowa.

de Haro-Martí, M.E., A. Agenbroad, T. McCammon. 2012-13. Composting of grape vine prunings and dairy manure. Applied research and demonstration. Emmett, Idaho.

de Haro-Martí, M.E. 2011. Gooding Community Garden University of Idaho Research and Demonstration Plot. Gooding, Idaho, 2011, 2012, 2013.

de Haro-Martí, M.E. and T. Woodland. 2010. Gooding High School, Gooding, Idaho.
 - Permanent Industrial Vermicomposting Reactor Demonstration. 2010-Present.
 - Environmentally Sound Processing of Kitchen Waste. 2010-Present.

Chen L., **M.E. de Haro-Martí**, M. Chahine, H. Neibling, and W. Gray. 2012. Dairy manure land application using a drag hose and injection system. Applied research and demonstration. Buhl, Idaho.

de Haro-Martí, M.E. 2011. University of Idaho R&E and 4-H Gooding Community Garden Plots Tour. Gooding, Idaho, August 4, 2011.

de Haro-Martí, M.E., R. Sheffield, A. Leytem, D. Bjorneberg, and D. Roper. 2007. Hose Drag Land Application and Air Monitoring Field Day Demonstration. Murtagh, ID. October 10, 2007.

Judging:

LARC 554 Studio Class. UI-CNR. Students mid-term project presentation judging. Moscow, ID. October 12, 2018.

Gooding County Fair. 4-H Judging

- Oral presentations on animal science, goat and lama. 2018
- Oral presentations on Leadership, livestock, animal science. Poster, and flyer. 2016, 2015.

Judging (cont.)

- Oral speech presentations. 2014.
 - Oral presentations on dairy. 2010, 2008,2007.
- Ron Sheffield Memorial. Student's Poster Competition. Judge. Waste to Worth, Advancing Sustainability in Animal Agriculture conference. Raleigh, North Carolina. April 18-21, 2017.
- Idaho Association of Soil Conservation Districts Speech Contest. Gooding SCD. October 12, 2016.
- Gooding 4-H FCS/Leadership Scholarship. 2016.

Translation Activities:

- RMS Reproduction Training. Twin Falls, ID. September 27, 2017. Live Translation (English-Spanish).
- Dairy Middle Management Training and Round Table in Spanish. Twin Falls, ID. Live Translation (English-Spanish).
- Use of genetic principles in livestock production and Use of Beef Quality Assurance protocols on dairies. B. Glaze. June 15.
 - Genomics and Fertility. J. Dalton. May 18.
 - How To Evaluate Dairy Facilities. R. Norell. March 30.
- Improving Artificial Insemination Techniques. Translation (English-Spanish). extension.org. June 2016.
- Safe Handling of Dairy Cows. Translation (Spanish-English). extension.org. April 2016.
- Managing Labor Responsible for Feeding the Lactating Dairy Herd. Translation (English-Spanish). extension.org. February 2016.
- What Are Your Dairy Cows Telling You about Their Nutrition Program? Translation (English-Spanish). extension.org. February 2016.
- Handle Sexed Semen with Care to Maximize Heifer Fertility. Translation (English-Spanish). extension.org. February 2016.
- Checklist for the Top 5 Priorities for Fall/Winter Dairy Feeding Programs. Translation (English-Spanish). extension.org. January 2016.
- Checklist for Nutritional Aspects for Improving Reproductive Efficiency. Translation (English-Spanish). extension.org. January 2016.
- Dairy Feeding and Management Considerations during Heat Stress. Translation (English-Spanish). extension.org. March 2015
- Checklist for Nutritional Aspects for Improving Reproductive Efficiency. Translation (English-Spanish). extension.org. April 2015.
- Food & Fun Challenge flyer. Translation (English-Spanish). University of Idaho Extension. June 2014.
- Two letters of support for presentation to University of Idaho Extension awards. Translation (English-Spanish). April 2014.
- Idaho Dairyman Association. Translation (English-Spanish). January 2013.
- Employment Application
 - Agreement for protection of company operations
- Swing into Spring with 4-H, brochure. Translation (English-Spanish). University of Idaho Extension, Gooding County. March, 2013, March 2012.
- Farm and dairy workers workshop in Spanish, brochure. Translation (English-Spanish). University of Idaho Extension, Lincoln and Gooding Counties. February 2012.
- 4-H Youth Program, brochure. Translation (English-Spanish). University of Idaho Extension, Gooding County. January 2012.
- Test Your Water Well Brochure. Idaho Department of Environmental Quality. English-Spanish. April, 2011.
- What to do if Someone Ingests a Pesticide Brochure. FFA and National Pesticide Information Center. English-Spanish. March 2011.

2010 Christmas Assistance-Christmas for Kids. Registration Form. Toys for Tots Program. English-Spanish. December 2010.

Review Activities:

Agricultural Air quality Conservation Measures. Reference Guide for Poultry and Livestock Production Systems. USDA-NRCS and EPA. 2017. Reviewed February 2017.

Odor control practices for northwest dairies. Review for publication actualization. University of Idaho. Bulletin CIS 1148. August 2016.

Odor assessments of Idaho livestock farms and manure application practices. Review for publication actualization. University of Idaho. Bulletin RES 164. August 2016.

Land Application of Manure Nutrients video, video script, and related web fact sheet. Review. Extension.org. June 2016.

Early sick dairy heifer identification is important for their survival and future milk production. Translation review (English-Spanish). Dairy Xnet- eXtension publication. October 2014.

Displaced Abomasum – Avoiding the need for a tummy tuck in dairy cows. Translation review (English-Spanish). Dairy Xnet- eXtension publication. October 2014.

Cow management during calving. Translation review (English-Spanish). Dairy Xnet- eXtension publication. February 2014.

Artificial Insemination Idaho State Board Examination. Translation review (English-Spanish). Idaho State Department of Agriculture. March 2013.

Home Affordable Refinance Program (HARP) brochure. Translation review (English-Spanish). University of Idaho Extension, Jerome County. October 2012.

Wanted: Caring adults who make a difference, brochure. Translation review (English-Spanish). University of Idaho Extension, Gooding County. February, 2012.

Nevada Beef Quality Assurance Certificate. Translation review (English-Spanish). Nevada Beef Council. September 2011.

Dehorning calves with paste. Translation review (English-Spanish). Oregon State University Fact Sheet PNW 626. February 2011.

Updated Spanish Version of CEBWS Crop Budget Program. Translation Review (English-Spanish). Computer Program. University of Idaho. October 2010.

Transactions of ASABE Journal. Reviewed paper SE-08562-2010 "Mask Scentometer for Assessing Ambient Odors." June 2010.

Served as reviewer. e-eXtension FAQ. 2007. <https://faq.extension.org>. May 2007.

Community Service:

Gooding Community Garden co-manager. 2011 - present.

Honors and Awards:

2010 Outstanding Young Farmer. U.S. Junior Chamber. My nominee, Mr. Greg Hirai, was selected as one of ten national finalists who obtained an award and trip stipends.

PROFESSIONAL DEVELOPMENT:

Scholarship:

National Association of Extension Program & Staff Development Program. Virtual summer school webinars. 2017.

- What Can Be Published – Turning the non-publishable into publishable. August 7.
- Digital Storytelling for Scholarly Engagement. August 8.
- Getting Published – How and Where to Get Published. August 9.

SAS Workshop. University of Idaho CALS. Twin Falls, ID. June 7, 2017.

Agricultural Producers Grants Workshop. Natural Resources Conservation Service. Gooding, Idaho. March 24, 2010.

Outreach:

New Idaho Nutrient Management Plan training. ISDA. Kimberly, ID. July 26, 2018.

PROFESSIONAL DEVELOPMENT, Outreach (cont.)

Zeolite 2018, 10th International Conference on the Occurrence, Properties and Utilization of Natural Zeolites. Kraków, Poland. June 24-29, 2018.

Idaho Dairymen Association district meeting and training. Twin Falls, ID. January 9, 2018.

Pesticide applicator recertification seminar. Burley, ID. December 13. Twin Falls, ID. December 14, 2017.

Risk Assessment and Management Education for Dairy Farmers in the Western Region. Twin Falls, ID. Session I, November 16, 2017. Session II, January 24, 2018. Session III, March 7, 2018.

Idaho Dairy Herd Improvement Association Dairy Goat annual meeting. Twin Falls, ID. September 23, 2017.

Mass animal mortality workshop. Raleigh, North Carolina. April 18, 2017.

Waste to Worth, Advancing Sustainability in Animal Agriculture conference. Raleigh, North Carolina. April 18-21, 2017.

University of Idaho Extension Annual Conference. Burley, ID. April 3-6, 2017.

Introduction to Animal Care and Use. Collaborative Institutional Training Initiative Program (CITI). WEB. March 31, 2017.

Nutrient Management Training. Idaho Dairymen Association. Twin Falls, ID. February 15, 2017.

Organic Farming Conference. NCAP. Twin Falls, ID. February 8, 2017.

Pesticide recertification program. CSI Agri-action. Three credits. Twin Falls. February 3, 2018.

UI Pesticide recertification program. Six credits. Sawtooth Inn Jerome. December 8, 2016.

Idaho and National Veterinary Stockpile Full Scale Exercise. Jerome, Idaho. August 24, 2016.

Master Gardener Diagnostic Training. University of Idaho Extension. Gooding, Idaho. April 21, 2016.

University of Idaho Extension-CALS Annual Conference. Moscow, Idaho. April 4-7, 2016.

Idaho Dairymen's Association Nutrient Management Training. Twin Falls, Idaho. March 15, 2016.

Idaho Dairymen's Association District meeting and training. Twin Falls, Idaho. January 15, 2016.

Organic Workshop 101. NCAP. Twin Falls, Idaho. December 3, 2015.

UI Pesticide Training for Extension Educators. Twin Falls, Idaho. November 17, 2015.

Idaho Association for Plant Protection meeting. Jerome, Idaho. November 4-5, 2015.

Farm Management Training for Extension Educators. Jerome, Idaho. October 8, 2015.

V International symposium in Animal Mortality Management. Lancaster, Pennsylvania. September 28 – October 1, 2015.

American Dairy Science Association, ASAS, Joint Annual Meeting. Orlando, Florida. July 12-16, 2015.

From Waste to Worth, Advancing Sustainability in Animal Agriculture conference. Seattle, Washington. March 30 – April 2, 2015.

Organic Farming Conference. Northwest Center for Alternatives to Pesticides. Twin Falls, Idaho. January 30, 2015.

Idaho Nitrate Symposium. Idaho Department of Environmental Quality. Twin Falls, Idaho. December 4, 2014.

Dairy Margin Protection Program . United Dairymen of Idaho- University of Idaho. Twin Falls, Idaho. October 23, 2014.

Sustainable Dairy Symposium. Twin Falls, Idaho September 16-17, 2014.

Expoláctea. International Dairy Exposition. Aguas Calientes, Aqs, México, March 12-14, 2014.

Idaho Nutrient Management Conference. Twin Falls, Idaho. March 6, 2014.

Media Training. University of Idaho Extension. Twin Falls, Idaho. February 25, 2014.

Sustainable Ag Conference. Boise, Idaho. November 14, 2013.

Wildlife Management and Control Course. Boleman, Montana. June 25-26, 2013.

Master Gardener Diagnostic Training. University of Idaho Extension. Gooding, Idaho. May 8, 2013.

Western Dairy Air Quality Symposium. Boise, Idaho. April 16-17, 2013.

University of Idaho Extension-CALS Annual Conference. Moscow, Idaho. April 8-11, 2013.

From Waste to Worth Waste Management Conference. Denver, Colorado. April 1-5, 2013.

Farmer Networks Training. Oregon State University. Videoconference, Twin Falls, Idaho. March 7, 2013.

National Mastitis Council Annual Meeting. San Diego, California. January 27-30, 2013.

4th International Conference on Climate Change. Seattle, Washington. July 12-13, 2012.

University of Idaho Extension-CALS Annual Conference. Boise, Idaho. April 2-5, 2012.

PROFESSIONAL DEVELOPMENT, Outreach (cont.)

Idaho Nutrient Management Conference. University of Idaho. Jerome, Idaho. March 6, 2012.

Grower's Own Conference. Northwest Center for Alternatives to Pesticides. Twin Falls, Idaho. February 3, 2012.

National Mastitis Council Annual Meeting. St. Pete Beach, Florida. January 22-24, 2012.

Idaho Beef Summit. University of Idaho Extension. Twin Falls, Idaho. January 5-7, 2012.

Virtual Renewable Energy Education Field Day. Farm Foundation – USDA. Internet. October 26, 2011.

Advanced Master Gardener Training. Insect Identification. Twin Falls, Idaho. June 9, 2011.

NCSU 11th Annual Vermiculture Conference. Las Vegas, Nevada. May 26-27, 2011.

USEPA Sixth AgSTAR National Conference. Boise, Idaho. May 10-12, 2011.

University of Idaho Extension-CALS Annual Conference. Moscow, Idaho. April 4-7, 2011.

ISDA Nutrient Management Seminar. Twin Falls, Idaho. March 8-9, 2011.

National Mastitis Council Annual Meeting. Arlington, Virginia. January 23-26, 2011.

Sustainable Energy Conference. College of Southern Idaho. Twin Falls, Idaho. November 16-17, 2010.

Profitable and Sustainable Agricultural Systems Workshop. University of Wyoming. Laramie, Wyoming. November 2-3, 2010.

UI Pesticide Training for Extension Educators. Twin Falls, Idaho. October 27, 2010.

Your School and IPM. ISDA Pesticide Training. Twin Falls, Idaho. October 26, 2010.

ADSA-PSA-AMPA-CSAS-WSASAS-ASAS Joint Annual Meeting. Denver, Colorado. July 11-15, 2010.

NCSU 10th Annual Vermiculture Conference. Durham, North Carolina. May 26-28, 2010.

Advanced Master Gardener Workshop. Pruning the Neglected Tree. Jerome, Idaho. May 13, 2010.

University of Idaho Extension-CALS Annual Conference. Burley, Idaho. April 12-15, 2010.

Idaho Nutrient Management Conference. Shoshone, Idaho. March 9, 2010.

National Association of County Agricultural Agents Annual Conference. Portland, Oregon. September 20-24, 2009.

Western Odor and Air Quality Education Program. Leavenworth, Washington. June 15-16, 2009.

Fruit Tree Pruning Workshop. University of Idaho. Gooding, Idaho. March 18, 2009.

University of Idaho Extension-CALS Annual Conference. Moscow, Idaho. March 9-13, 2009.

Foreign Animal Disease Response Training Officer - Train the Trainer Course. USDA-APHIS, DHS, FAZD. Twin Falls, Idaho. February 10, 2009.

Principles of Industrial Cheesemaking Workshop. University of Idaho & TechHelp. Twin Falls, Idaho. February 3-4, 2009.

Master Gardener Training. University of Idaho. Jerome, Idaho. January 8 to March 19, 2009.

Compost Facility Operator Training. Washington Organic Recycling Council. Puyallup, Washington. October 20-24, 2008.

Western Region Ag Agent Conference. Prineville, Oregon. October 15-16, 2008.

Soil Sampling Certification Workshop-ISDA. Twin Falls, Idaho. September 16, 2008.

Grasshopper Management Workshop. University of Idaho. Twin Falls, Idaho. May 22, 2008.

Air Emissions Mitigation from CAFO Conference. Des Moines, Iowa. May 19-23, 2008.

First Idaho Green Expo. Boise, Idaho. May 17, 2008.

Pesticides Training. Parma Extension Office. Parma, Idaho. April 4, 2008.

University of Idaho Extension-CALS Annual Conference. Boise, Idaho. April 1-3, 2008.

SARE-New American Farm Conference. Kansas City, Missouri. March 25-27, 2008.

Nutrient Management Conference. Jerome, Idaho. March 4, 2008.

Weed School. Shoshone, Idaho. February 20, 2008.

Pasture and Animal Management for Small Acreage Landowners. Gooding, Idaho. January 29, 2008.

National Mastitis Council Annual Meeting. New Orleans, Louisiana. January 20-23, 2008.

Alfalfa Intensive Training Seminar. National Alfalfa & Forage Alliance. Boise, Idaho. November 13-15, 2007.

Climate Change and Beyond. Idaho Council on the Environment – IDEQ. Boise, Idaho. October 30-31, 2007.

Are Tree Fruits in Your Future? Small Acreage Farming Workshop. University of Idaho Extension. Hagerman, Idaho. October 23, 2007.

PROFESSIONAL DEVELOPMENT, Outreach (cont.)

International Symposium on Air Quality and Waste Management for Agriculture. ASABE. Broomfield, Colorado, USA. September 15–19, 2007.

International Ammonia Conference in Agriculture. Wageningen UR. Conference Center De Reehorst. Ede, Netherlands. March 19–21, 2007.

Idaho Nutrient Management Conference for Professionals. University of Idaho. Twin Falls, Idaho. March 7, 2006.

Intermountain Conference on the Environment. Idaho State University. Pocatello, Idaho. 2005.

Administration/Management:

QuickBooks training. University of Idaho Extension. Gooding, ID. May 30, 2018.

County Chair Training. University of Idaho Extension. Caldwell, ID. May 14-15, 2018.

Supervisor Training. ICRMP. Gooding, ID. October 23, 2017.

American Heart Association. Heartsaver CPR AED Certification. Kimberly, Idaho. March 23, 2016.

Colors personality training. University of Idaho Extension. Gooding, Idaho. November 16, 2015.

Idaho's Journey for Diversity and Human Rights. University of Idaho. Twin Falls, Idaho. October 5, 2012.

American Heart Association. Heartsaver CPR AED Certification. Twin Falls, Idaho. April 10, 2012.

University of Idaho Conflict Resolution Training. Twin Falls, Idaho. June 2, 2011.

Navigating the Difference. University of Idaho Diversity Training. Twin Falls, Idaho. January 5-7, 2011.

County Chair Training. University of Idaho Extension. Boise, Idaho, 2008.