

CURRICULUM VITAE

University of Idaho

NAME: Mireille Chahine

DATE: April 6, 2015

RANK OR TITLE: Associate Professor/Extension Dairy Specialist

DEPARTMENT: Animal and Veterinary Science

OFFICE LOCATION AND CAMPUS ZIP: Twin Falls R&E Center
P.O. Box 1827
Twin Falls, ID 83303

OFFICE PHONE: 208-736-3600

FAX: 208-736-0843

EMAIL: mchahine@uidaho.edu

DATE OF FIRST EMPLOYMENT AT UI: October 20, 2003

DATE OF TENURE: July 1, 2009

EDUCATION BEYOND HIGH SCHOOL:

Degrees:

Ph.D., University of Minnesota, St Paul, Minnesota, 2004, Animal Sciences (Dairy Nutritional Physiology)

M.S., Universidad Autónoma de Barcelona, Bellaterra, Spain, 1998, Ruminant Nutrition

Diploma of Specialized Post-graduate Studies, Agronomic Institute of Zaragoza, Zaragoza, Spain, 1996, Animal Production

B.S., Lebanese University, Beirut, Lebanon, 1995, Agricultural Engineering

LANGUAGES:

Arabic: Native language

English: Fluently spoken written and read

Spanish: Fluently spoken written and read

French: Fluently spoken written and read

EXPERIENCE:

Teaching, Extension and Research Appointments:

Extension Dairy Specialist and Associate Professor (2009-) Department of Animal and Veterinary Science, University of Idaho, Moscow, Idaho. 77% Extension, 17% Research, 3% Service, 3% Teaching and Advising.

Extension Dairy Specialist and Assistant Professor (2003-2009) Department of Animal and Veterinary Science, University of Idaho, Moscow, Idaho. 70% Extension, 17% Research, 10% Service, 3% Teaching and Advising.

Graduate Research Assistant (1998-2002) Department of Animal Science, University of Minnesota, St. Paul, Minnesota.

Student Employee (Hispanic Workers Training) (2002-2003) Department of Animal Science, University of Minnesota, St. Paul, Minnesota.

Academic, Research, and Extension Affiliations:

Extension and Teaching Collaborator, ExpoLeche, Aguascalientes, Mexico, 2009-

Teaching collaborator, Universidad Pública del Alto, La Paz, Bolivia, 2012-2013

Extension and Teaching Collaborator, Tropileche, Villahermosa, Mexico, 2011
 Teaching collaborator, Hands On Milker School, Tepatitlan, Mexico, 2011
 DAIReXNET Management Team Member, 2006-
 DAIReXNET Spanish Materials Domain Leader, 2006-
 Research collaborator, Institute of Agricultural Research and Technology (IRTA), Barcelona, Spain, 2005-
 Member, Graduate Faculty, University of Idaho, 2003-

TEACHING ACCOMPLISHMENTS:

Areas of Specialization:

Dairy Cattle Management
 Hispanic Workers Training
 Dairy Labor Training

Courses Taught:

University of Idaho

Primary instructor: Summer Internship, Summer 2012, 2013, 2014
 Primary Instructor: Introduction to SAS, AVS 404, University of Idaho, 1 credit, Fall 2009.
 Co-Instructor: Summer Internship, PISc 398 (4 cr.) Summer 2009
 Primary Instructor: Factors Affecting Dairy Animal Health, AVS 504 (2 cr.), Summer 2008
 Guest Instructor: Dairy Internship, AVS 398 (1 cr.), Spring 2004, 2005, 2006, 2007, 2008
 Primary Instructor: Lactation Physiology, AVS 404 (3 cr.) Spring 2006 (taught yearly after that using the recorded video)
 Primary Instructor: Lactation Physiology, AVS 504 (3 cr.) Spring 2006
 Guest Lecturer: Agricultural Waste Management, BAE 504 (3 cr.) Spring 2005

College of Southern Idaho

Guest Lecturer: Veterinary Technician Program, Fall 2004
 Guest Lecturer: Veterinary Technician Program, Fall 2005

University of Minnesota:

Ruminant Nutrition (Lab Instructor), AnSc 4403 (4 cr.), Spring 1999, 2000

Students Advised:

Graduate Students:

Major Professor for:
 Celina Matuk (MS student)
 Bekir Ozer (MS student)

Committee Member for:

Hossein Md. Zakir (MS student, graduated Summer 2008)
 Sarah Peterson (MS student, graduated Spring 2009)

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

International:

Chahine, M. Update on appropriate protocols to prevent mastitis on dairies (Spanish). Expolactea 2014. Congreso Internacional de Mastitis y Calidad de Leche. Aguascalientes, Mexico. March 11-14, 2014. *Invited presentation.*
 Chahine, M. Controlling Environmental Mastitis on Dairies (Spanish). Expolactea 2011 Congreso Internacional de Mastitis y Calidad de Leche. Aguascalientes, Mexico. March 9-12, 2011. *Invited presentation.*
 Chahine, M. and M.E., de Haro Martí. 2011. Environmental Mastitis in Milking and Dual Purpose

- Cows (Spanish). Tropileche 2011 Congreso Internacional sobre Producción de Leche en Clima Tropical. Villahermosa, Tabasco, México, June 29-July 2, 2011. *Invited presentation.*
- Chahine, M. Nutrition of Dairy Cows during the Transition Period: New Strategies to Improve Health (Spanish). International Conference on Reproduction and Nutrition of Dairy Cows. Tepatitlán, Jalisco, México, September 28-30, 2011. *Invited presentation.*
- Chahine, M. Three days milker certification program (Spanish). International Conference on Reproduction and Nutrition of Dairy Cows. Tepatitlán, Jalisco, México, September 28-30, 2011. *Invited presentation.*
- Chahine, M. Black soldier fly larvae grown on cow manure. 2009 ADSA®-CSAS-ASAS Joint Annual Meeting, Montreal, Canada, July 15th 2009.
- Chahine, M. Hoof care workshop in English and Spanish. 2009 ADSA®-CSAS-ASAS Joint Annual Meeting, Montreal, Canada, July 15th 2009.
- Chahine, M. Behavior, feed consumption and weight gain of calves on a large calf ranch. Eurovacum Conference, Vic, Barcelona Spain, June 11th 2009. *Invited presentation.*
- Chahine, M. How to reduce milk somatic cell counts on a commercial dairy: a practical example. Eurovacum Conference, Vic, Barcelona Spain, June 10th 2009. *Invited presentation.*
- Chahine, M. Effect of pre-harvest feeding on market dairy cow carcass performance. Italian Scientific Association of Animal Production, Alghero, Italy, May 30th, 2007.
- Chahine, M. and R. Sheffield. Ammonia emissions from Idaho dairies. First ammonia conference, Ede, The Netherlands. March 20th 2007.

National:

- Chahine, M. G. Shewmaker, R. J. Norell, and C. W. Gray. Dairy industry economics and its effects on hay and forage producers. Colorado Farm Show, Greeley, Co. January 28th 2010. *Invited presentation.*
- Chahine, M. How dairies are dealing with the current economic crisis: Impact on forages, 2009 Western Alfalfa and Forage Symposium, Reno, Nevada, December 3rd 2009. *Invited presentation.*
- Chahine, M. Opportunities to increase non-milk revenues on dairy. Pacific Northwest Animal Nutrition Conference, Boise, Idaho, October 8th 2009. *Invited presentation.*
- 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. (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).
- Chahine, M. Comparing three different methods for assessing corn silage density. American Dairy Science Association Annual Meeting. Indianapolis, Indiana. July 9th, 2008.
- Chahine, M. Cultural issues concerning dairy workers. Amarillo Farm Show, Amarillo, Texas, November 27th, 2007. *Invited presentation.*
- Chahine, M. Managing a multicultural dairy team. World Dairy Expo, Madison, Wisconsin, October 4th, 2007. *Invited presentation.*
- Chahine, M. Cull cow and calf marketing methods employed by Idaho dairies. American Dairy Science Association Annual Meeting. San Antonio, Texas. July 11th, 2007.
- Chahine, M. and G. Shewmaker. Oregon King Hay Contest. Oregon State University and Oregon Hay Association. Christmas Valley, Oregon, December 15th, 2006. *Invited presentation.*
- Chahine, M. Dairy Market-What kind of hay are dairies looking for? Oregon State University Alfalfa Hay Meeting, Ontario, Oregon, November 28th, 2006. *Invited presentation.*
- Chahine, M. Spanish language educational opportunities for Idaho dairy employees-milker school. American Dairy Science Association Annual Meeting. Minneapolis, Minnesota, July 8th, 2006.
- Chahine, M. Spanish language educational opportunities for Idaho dairy employees-calf raising school. American Dairy Science Association Annual Meeting. Minneapolis, Minnesota, July 8th, 2006.
- Chahine, M. Recordkeeping on Idaho dairies. American Dairy Science Association Annual Meeting. Minneapolis, Minnesota, July 8th, 2006.
- Chahine, M. Why is Alfalfa important in a dairy cow's ration? 33rd Annual Fertilizer and Chemical Conference. Jackpot, Nevada. January 11th, 2006. *Invited presentation.*
- Chahine, M. Relationship of cow cleanliness during the close-up period and milk quality following

calving. Cincinnati, Ohio, July 27th, 2005.

Chahine, M. Parlor management when culture and languages collide. Pre-conference short course, NMC 2004 Regional Meeting, Bloomington, Minnesota. June 29th, 2004. *Invited presentation.*

Chahine, M. and G. Shewmaker. Oregon King Hay Contest. Oregon State University and Oregon Hay Association. Bend, Oregon, December 11th, 2004. *Invited presentation.*

State:

2014

- Norell, R. and M. Chahine. 2014. Idaho's Dairy Industry. Leadership Idaho Agriculture. Twin Falls, Idaho. December 10, 2014.
- Chahine, M. 2014. Dairy labor pool development. Idaho Dairymen's Association. Twin Falls, Idaho. November 25, 2014.
- Chahine, M. 2014. Principles of low stress animal handling. ABS Global RMS training program. Twin Falls, Idaho. November 19, 2014 (presented in Spanish).
- Chahine, M. 2014. Heat stress in dairy cattle. ABS Global RMS training program. Twin Falls, Idaho. November 19, 2014 (presented in Spanish).
- Chahine, M. 2014. Managing transition cows. ABS Global RMS training program. Twin Falls, Idaho. November 19, 2014 (presented in Spanish).
- Chahine, M. 2014. Effect of disease on reproduction and economics of dairies. ABS Global RMS training program. Twin Falls, Idaho. November 19, 2014 (presented in Spanish).
- Chahine, M. 2014. Body Condition Scoring: Relationship to reproduction. Twin Falls, Idaho. November 19, 2014 (presented in Spanish).
- Chahine, M. 2014. Managing transition cows. ABS Global RMS training program. Twin Falls, Idaho. November 11, 2014.
- Chahine, M. 2014. Effect of disease on reproduction and economics of dairies. ABS Global RMS training program. Twin Falls, Idaho. November 11, 2014.
- Chahine, M. 2014. University of Idaho Dairy Extension Program. United Dairymen of Idaho Annual Meeting. Boise, Idaho. November 12-13, 2014. (Poster)
- Chahine, M. 2014. Effect of disease on reproduction and economics of dairies. ABS Global RMS training program. Twin Falls, Idaho. November 05, 2014.
- Chahine, M. 2014. Managing transition cows. ABS Global RMS training program. Twin Falls, Idaho. November 05, 2014.
- Chahine, M. 2014. Effect of disease on reproduction and economics of dairies. ABS Global RMS training program. Twin Falls, Idaho. October 24, 2014.
- Chahine, M. 2014. Managing transition cows. ABS Global RMS training program. Twin Falls, Idaho. October 24, 2014.
- Chahine, M. 2014. University of Idaho Dairy Extension Program. Idaho Dairymen's Association Industry Relations Committee. Twin Falls, Idaho. October 21, 2014.
- Chahine, M. 2014. Managing close-up and fresh cows. Dairy Brazil Tour. Twin Falls, Idaho. October 14, 2014.
- Chahine, M. 2014. Effect of disease on reproduction and economics of dairies. ABS Global RMS training program. Twin Falls, Idaho. October 08, 2014.
- Chahine, M. 2014. Managing transition cows. ABS Global RMS training program. Twin Falls, Idaho. October 08, 2014.
- Chahine, M. 2014. Effect of disease on reproduction and economics of dairies. ABS Global RMS training program. Twin Falls, Idaho. September 24, 2014.
- Chahine, M. 2014. Managing transition cows. ABS Global RMS training program. Twin Falls, Idaho. September 24, 2014.
- Chahine, M. 2014. Principles of low stress animal handling. ABS Global RMS training program. Twin Falls, Idaho. June 23, 2014.
- Chahine, M. 2014. Heat stress in dairy cattle. ABS Global RMS training program. Twin Falls, Idaho. June 23, 2014.
- Chahine, M. 2014. Managing transition cows. ABS Global RMS training program. Twin Falls, Idaho. June 23, 2014.
- Chahine, M. 2014. Effect of disease on reproduction and economics of dairies. ABS Global RMS training program. Twin Falls, Idaho. June 23, 2014.

Chahine, M., Norell, R., C. Matuk, and M. E. de Haro Martí. 2014. Milker's Certification on Idaho Dairies. University of Idaho Extension and College of Southern Idaho. Preston, Idaho, May 28, 2014.

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 5: Cow behavior

Unit 6: Milking procedures

Unit 7: Mastitis and milk quality

Unit 8: Workplace safety and biosecurity.

Unit 9: Milker's responsibilities.

Chahine, M. 2014. Effect of disease on reproduction and economics of dairies. ABS Global RMS training program. Twin Falls, Idaho. May 14, 2014.

Chahine, M. 2014. Managing transition cows. ABS Global RMS training program. Twin Falls, Idaho. May 14, 2014.

Chahine, M. 2014. Milker's School. University of Idaho Extension. Twin Falls, Idaho, May 28, 2014.

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 5: Cow behavior

Unit 6: Milking procedures

Unit 7: Mastitis and milk quality

Unit 8: Workplace safety and biosecurity.

Unit 9: Milker's responsibilities.

Chahine, M. 2014. Proactive nitrogen management in Idaho. University of Idaho Nutrient Management Conference. Twin Falls, Idaho. March 6, 2014.

Chahine, M. 2014. Effect of disease on reproduction and economics of dairies. RMS training program. Twin Falls, Idaho. February 12, 2014.

Chahine, M. 2013. Principles of low stress animal handling. RMS training program. Twin Falls, Idaho. February 12, 2014.

Chahine, M. 2013. Heat stress in dairy cattle. RMS training program. Twin Falls, Idaho. February 12, 2014.

Chahine, M. 2014. Managing transition cows. RMS training program. Twin Falls, Idaho. February 12, 2014.

2013

Chahine, M. 2013. Idaho's Dairy Industry. Leadership Idaho Agriculture. December 10, 2013.

Chahine, M. 2013. Evaluating lameness on dairies. University of Idaho Extension and CSI Animal Care Certification. Preston, Idaho. November 12, 2013.

Chahine, M. 2013. Stockmanship: Low stress animal handling. University of Idaho Extension and CSI Animal Care Certification. Preston, Idaho. November 11, 2013.

Jensen, S. and M. Chahine. 2013. Euthanasia: Indication and techniques. University of Idaho Extension and CSI Animal Care Certification. Preston, Idaho. November 11, 2013.

Matuk, C. and M. Chahine. 2013. Calving management of dairy cattle. RMS training program. Twin Falls, Idaho. October 25, 2013.

Chahine, M. 2013. Effect of disease on reproduction and economics of dairies. RMS training program. Twin Falls, Idaho. October 25, 2013.

Chahine, M. 2013. Principles of low stress animal handling. RMS training program. Twin Falls, Idaho. October 21, 2013.

- Chahine, M. 2013. Heat stress in dairy cattle. RMS training program. Twin Falls, Idaho. October 21, 2013.
- Chahine, M. 2013. Managing transition cows. RMS training program. Twin Falls, Idaho. October 21, 2013.
- Matuk, C. and M. Chahine. 2013. Calving management of dairy cattle. RMS training program. Twin Falls, Idaho. September 30, 2013.
- Chahine, M. 2013. Effect of disease on reproduction and economics of dairies. RMS training program. Twin Falls, Idaho. September 30, 2013.
- Matuk, C. and M. Chahine. 2013. The basic clinical exam: Key to early identification of sick animals. RMS training program. Twin Falls, Idaho. September 30, 2013.
- Chahine, M. 2013. Evaluating lameness on dairies. RMS training program. Twin Falls, Idaho. September 30, 2013.
- Chahine, M. 2013. Principles of low stress animal handling. RMS training program. Twin Falls, Idaho. September 27, 2013.
- Chahine, M. 2013. Heat stress in dairy cattle. RMS training program. Twin Falls, Idaho. September 27, 2013.
- Chahine, M. 2013. Managing transition cows. RMS training program. Twin Falls, Idaho. September 27, 2013.
- Matuk, C. and M. Chahine. 2013. The basic clinical exam: Key to early identification of sick animals. RMS training program. Twin Falls, Idaho. August 27, 2013.
- Chahine, M. 2013. Evaluating lameness on dairies. RMS training program. Twin Falls, Idaho. August 27, 2013.
- Chahine, M. 2013. Managing transition cows. RMS training program. Twin Falls, Idaho. August 27, 2013.
- Matuk, C. and M. Chahine. 2013. Calving management of dairy cattle. RMS training program. Twin Falls, Idaho. August 27, 2013.
- Chahine, M. 2013. Effect of disease on reproduction and economics of dairies. RMS training program. Twin Falls, Idaho. August 27, 2013.
- Chahine, M. 2013. Scoring body condition of dairy cows step by step. RMS training program. Twin Falls, Idaho. August 23, 2013.
- Chahine, M. 2013. Principles of low stress animal handling. RMS training program. Twin Falls, Idaho. August 23, 2013.
- Chahine, M. 2013. Heat stress and its effect on production and reproduction. Dairy Middle Management Round Table. Twin Falls, Idaho. June 27, 2013.
- Chahine, M. 2013. Appropriate Euthanasia techniques for dairy cattle. Burley, Idaho. June 25, 2013.
- Chahine, M. 2013. Managing non-ambulatory dairy cows. Burley, Idaho. June 25, 2013.
- Chahine, M. 2013. Low stress handling of dairy cattle. Burley, Idaho. June 25, 2013.
- Chahine, M. 2013. Dairy Beef Quality Assurance. Burley, Idaho. June 25, 2013.
- Chahine, M. 2013. Body condition and lameness scoring of dairy cattle. Burley, Idaho. June 25, 2013.
- Chahine, M. 2013. Low stress handling of dairy cattle. Wendell, Idaho. June 24, 2013.
- Chahine, M. 2013. Dairy Beef Quality Assurance. Wendell, Idaho. June 24, 2013.
- Chahine, M. 2013. Body condition and lameness scoring of dairy cattle. Wendell, Idaho. June 24, 2013.
- Chahine, M. 2013. Appropriate euthanasia techniques for dairy cattle. Wendell, Idaho, June 24, 2013.
- Chahine, M. 2013. Managing non-ambulatory dairy cows. Wendell, Idaho, June 24, 2013.
- Chahine, M. 2013. Appropriate euthanasia techniques for dairy cattle. Buhl, Idaho. June 20, 2013.
- Chahine, M. 2013. Managing non-ambulatory dairy cows. Buhl, Idaho. June 20, 2013.
- Chahine, M. 2013. Low stress handling of dairy cattle. Buhl, Idaho. June 20, 2013.
- Chahine, M. 2013. Dairy Beef Quality Assurance. Buhl, Idaho. June 20, 2013.
- Chahine, M. 2013. Body condition and lameness scoring of dairy cattle. Buhl, Idaho. June 20, 2013.
- Chahine, M. 2013. Understanding Bovine Viral Diarrhea (BVD), the effects on your operation and proper sampling procedures. Jerome, Idaho. April 24th, 2013 (delivered twice: Morning and afternoon).
- Chahine, M. 2013. Calf school for Spanish speaking employees. Buhl, Idaho. March 28, 2013.
- Chahine, M. 2013. Evaluating dairy cows' rations. Dairy Middle Management Round Table, Twin Falls, Idaho. March 14, 2013.
- Chahine, M. 2013. Calving management for Spanish speaking employees. Buhl, Idaho. February 13,

2013.

Chahine, M. 2013. Idaho's Dairy Industry. Leadership Idaho Agriculture. Twin Falls, Idaho. January 9, 2013.

2012

Chahine, M. 2012. University of Idaho and CSI joint milker certification program. IDA District meetings. Nampa, Idaho, December 21, 2012.

Chahine, M. 2012. University of Idaho and CSI joint milker certification program. IDA District meetings. Idaho Falls, Idaho, December 19, 2012.

Chahine, M. 2012. University of Idaho and CSI joint milker certification program. IDA District meetings. Twin Falls, Idaho, December 18, 2012.

Chahine, M. 2012. Controlling environmental mastitis on dairies. Dairy Middle Management Round Table, Twin Falls, Idaho, December 13, 2012.

Chahine, M. 2012. University of Idaho Dairy Extension Activities. Milk Producers of Idaho. Nampa, Idaho, October 21, 2012.

Chahine, M. 2012. University of Idaho Dairy Extension Activities. Idaho Dairymen's Association. October 10, 2012.

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.

Chahine, M., C. Matuk, and M. E. de Haro Martí. 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 5: Cow behavior

Unit 6: Milking procedures

Unit 7: Mastitis and milk quality

Unit 8: Workplace safety and biosecurity

Unit 9: Milker's responsibilities

Three on-farm hands-on sections. Jerome, Wendell, and Twin Falls.

Chahine, M. 2012. Calf school for Spanish speaking employees. Buhl, Idaho. August 1, 2012.

Chahine, M. 2012. Calving management for Spanish speaking employees. Buhl, Idaho. August 20, 2012.

Chahine, M. and C. M. Matuk. 2012. Benchmarking on Idaho dairies. Dairy Middle Management Round Table, Twin Falls, Idaho, March 22, 2012.

Chahine, M. 2012. Idaho's Dairy Industry. Spanish Veterinarians and Farmers tour, Twin Falls, Idaho, March 14, 2012.

Chahine, M. and C. M. Matuk. 2012. Cow and calf management at parturition, Twin Falls, Idaho, February 23, 2012.

Chahine, M. 2012. Idaho's Dairy Industry. Leadership Idaho Agriculture. February 8, 2012.

Chahine, M. 2012. What kind of hay are dairies looking for? Idaho Farm Bureau Annual Presentation. Boise, Idaho, February 6, 2012.

Chahine, M. 2012. Managing transition dairy cows. Dairy Middle Management Round Table, Twin Falls, Idaho, January 17, 2012.

2011

Chahine, M. 2011. Dairy cow synchronization protocols. Dairy Middle Management Round Table Twin Falls, Idaho, October 27, 2011. (team taught with Joe Dalton).

Chahine, M. 2011. Calf school for Spanish speaking employees. Buhl, Idaho. October 20, 2011.

Chahine, M. 2011. A journey through the rumen. Thousand Springs Festival. Wendell, Idaho, September 24 and 25, 2011.

Chahine, M. 2011. Vaccines use and Management. Dairy Middle Management Round Table, Twin

- Falls, Idaho, September 22, 2011.
- Chahine, M. 2011. From feed to milk. Jerome Historic Day, Jerome, Idaho, September 17, 2011.
- Chahine, M. 2011. Particle size separator and its use in dairy rations. University of Idaho Forage Days, Kimberly, Idaho, August 25, 2011.
- Chahine, M. 2011. Drug Residue Avoidance in Dairy Cows (English and Spanish). Dairy Management Crossover Meeting. Jerome, Idaho, August 24, 2011.
- Chahine, M. Calf school for Spanish speaking employees. Buhl, Idaho, July 8, 2011.
- Chahine, M. Appropriate protocols for managing transition cows on dairies. Buhl, Idaho, July 8, 2011
- Chahine, M. Metabolic diseases of dairy cattle: TMR mixing – Feeder school (Spanish), June 6, 2011.
- Chahine, M. Measuring dry matter concentration on the farm. TMR mixing - Feeder school (Spanish), June 6, 2011.
- Chahine, M. TMR Mixer operation. TMR mixing – Feeder school (Spanish), June 6, 2011.
- Chahine, M. Appropriate treatment records on dairy herds. Middle Management Round Table. Gooding, Idaho, May 28, 2011.
- Chahine, M. Metabolic diseases of dairy cattle: TMR mixing – Feeder school (Spanish) Buhl, Idaho, May 17, 2011.
- Chahine, M. Measuring dry matter concentration on the farm. TMR mixing - Feeder school (Spanish), Buhl, Idaho, May 17, 2011.
- Chahine, M. TMR Mixer operation. TMR mixing – Feeder school (Spanish), Buhl, Idaho, May 17, 2011.
- Chahine, M. Calf school for Spanish speaking employees. Parma, Idaho, April 28, 2011.
- Chahine, M. Metabolic diseases of dairy cattle: TMR mixing – Feeder school (Spanish), Parma, Idaho, April 26, 2011.
- Chahine, M. Measuring dry matter concentration on the farm. TMR mixing - Feeder school (Spanish), Parma, Idaho, April 26, 2011.
- Chahine, M. TMR Mixer operation. TMR mixing – Feeder school (Spanish), Parma, Idaho, April 26, 2011.
- Chahine, M. Identifying sick cows and calves. Jerome, Idaho, April 18, 2011.
- Chahine, M. AI refresher course for professional inseminators. Twin Falls, Idaho, March 28, 2011.
- Chahine, M. Identifying sick cows and calves. Protecting the Milk Supply Workshop. Jerome, Idaho, March 16, 2011.
- Chahine, M. How to conduct a basic clinical exam? Protecting the Milk Supply Workshop. Jerome, Idaho, March 16, 2011.
- Chahine, M. Controlling environmental mastitis on Idaho dairies. Protecting the Milk Supply Workshop. Jerome, Idaho, March 16, 2011.
- Chahine, M. Nutrition and feed management in dairy herds. ISDA Nutrient Management Workshop. Twin Falls, Idaho, March 3, 2011.
- Chahine, M. AI refresher course for professional inseminators. February 24, 2011.
- Chahine, M. A training workshop for workers: A milker school for Spanish Speaking employees. Jerome, Idaho, February 16, 2011.
- Chahine, M. 2010. Spanish and English speaking AI school, Twin Falls, Idaho, November 15, 2010 (team taught with Joe Dalton, Scott Jensen and Mario E. de Haro Marti).

2010

- Chahine, M. Dairy Extension Program in Idaho. NC1042 Annual Meeting. Twin Falls, Idaho. Twin Falls, Idaho, October 15th 2010.
- Chahine, M. Dairy Science Teaching Program in Idaho. NC1042 Annual Meeting. Twin Falls, Idaho, October 15th 2010.
- Chahine, M. A training workshop for workers: A milker school for Spanish Speaking employees, Jerome, Idaho, August 11th 2010.
- Chahine, M. A journey through the rumen. University of Idaho Twilight Tour. July 21st 2010.
- Chahine, M. G. Shewmaker, R. J. Norell, and C. W. Gray. How dairies are dealing with the current economic crisis: Impact on forages, 2010 Southeastern Idaho Forage Seminar, Rexburg, Idaho, March 10th 2010.
- Chahine, M. M. E. de Haro Marti, S. St Hilaire, O. Pozo, R. E. Sheffield. Black soldier fly larvae grown on cow manure. 2010 Idaho Nutrient Management Conference, March 9th 2010.

- Chahine, M. A training workshop for workers: A milker school for refugees, Twin Falls, Idaho, February 12th 2010.
- Chahine, M. A training workshop for workers: A milker school for refugees, Twin Falls, Idaho, February 11th 2010.
- Chahine, M. A training workshop for workers: A milker school for refugees, Twin Falls, Idaho, February 9th 2010.

2009

- Chahine, M. Spanish speaking AI school, Twin Falls, Idaho, December 1st, 2008 (Organized by Dr. Joe Dalton).
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Jerome, Idaho, October 20th 2009.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Jerome, Idaho, September 16th 2009.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Jerome, Idaho, September 15th 2009.
- Chahine, M. Management of neonatal calves. El Lechero Crossover Meeting, Jerome, Idaho. July 30th 2009 (invited presentation).
- Chahine, M. How to deal with trouble employees? El Lechero Crossover Meeting, Jerome, Idaho. July 29th 2009 (invited presentation).
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Twin Falls, Idaho, May 27th, 2009 (2 sessions: am and pm)
- Chahine, M. Spanish dairy management training in Idaho, 2009 Dairy Forum, Preston, Idaho, April 16th 2009.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Buhl, Idaho, April 9th, 2009
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Buhl, Idaho, February 11th, 2009
- Chahine, M. Raising healthy calves, Kuna, Idaho, January 29th, 2009
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Kuna, Idaho, January 28th, 2009

2008

- Chahine, M. From feed to milk, University of Idaho Extension. 1000 Springs Festival, Hagerman, Idaho, September 27th and 28th, 2008.
- Chahine, M. From feed to milk, University of Idaho Extension. Kimberly R&E Center/Twin Falls R&E Center Twilight Tour. Kimberly, Idaho, July 24th, 2008.
- Chahine, M. From feed to milk, Idaho State Park Centennial, Hagerman, Idaho, July 12th, 2008.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Wendell, Idaho, June 26th, 2008.
- Chahine, M. Feeding dairy calves, Shoshone, Idaho, June 16th, 2008.
- Chahine, M. From feed to milk, Jerome Historical Society, Jerome, Idaho, June 14th, 2008.
- Chahine, M. Raising Healthy Calves. 4-H Dairy Camp, Rupert, Idaho. June 13th, 2008.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Buhl, Idaho, May 4th, 2008.
- Chahine, M. Basic and applied nutrition of dairy cattle: TMR mixing – Feeder school (Spanish), Preston, Idaho, March 20th, 2008.
- Chahine, M. Metabolic diseases of dairy cattle: TMR mixing – Feeder school (Spanish), Preston, Idaho, March 20th, 2008.
- Chahine, M. and R. Norell. Measuring dry matter concentration on the farm. TMR mixing - Feeder school (Spanish), Preston, Idaho, March 20th, 2008.
- Chahine, M. and R. Norell. TMR Mixer operation. TMR mixing – Feeder school (Spanish), Preston, Idaho, March 20th, 2008.
- Chahine, M. and R. Norell. Feedbunk management. TMR mixing – Feeder school (Spanish), Preston, Idaho, March 20th, 2008.
- Chahine, M. Basic and applied nutrition of dairy cattle. TMR mixing – Feeder school (English), Preston, Idaho, March 20th, 2008.

- Chahine, M. Metabolic diseases of dairy cattle: TMR mixing – Feeder school (English), Preston, Idaho, March 20th, 2008.
- Norell, R. and M. Chahine. Measuring dry matter concentration on the farm. TMR mixing - Feeder school (English), Preston, Idaho, March 20th, 2008.
- de Haro Marti, M and M. Chahine. Ammonia and Sulfur Emissions from a Storage Pond, Composting Yard, and Processing Area using UVDOAS. 2008 Idaho Nutrient Management Conference, Jerome, Idaho, March 4th, 2008.
- Chahine, M. and R.J. Norell. Feeding management to decrease phosphorus excretion in manure. 2008 Idaho Nutrient Management Conference, Jerome, Idaho. March 4th, 2008.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Buhl, Idaho. February 27th, 2008.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Buhl, Idaho, February 13th, 2008.

2007

- Chahine, M. Reproductive tract of dairy cattle. Spanish speaking AI school, Twin Falls, Idaho, December 10th, 2007.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Jerome, Idaho, December 4th, 2007.
- Chahine, M. Efecto de la nutrición sobre la salud de las pezuñas. Escuela de pezuñas, Jerome, Idaho, November 29th, 2007.
- Chahine, M. Effect of nutrition on hoof health. Hoof care workshop, Jerome, Idaho, November 28th, 2007.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Jerome, Idaho, November 16th, 2007.
- Chahine, M. A journey through the rumen, 1000 springs festival, Hagerman, Idaho, September 30th, 2007.
- Chahine, M. A journey through the rumen, 1000 springs festival, Hagerman, Idaho, September 29th, 2007.
- Chahine, M. Basic and applied nutrition of dairy cattle. TMR mixing – Feeder school (English), Gooding, Idaho, September 26th, 2007.
- Chahine, M. Metabolic diseases of dairy cattle: TMR mixing – Feeder school (English), Gooding, Idaho, September 26th, 2007.
- Norell, R. and M. Chahine. Measuring dry matter concentration on the farm. TMR mixing - Feeder school (English), Gooding, Idaho, September 26th, 2007.
- Chahine, M. A training workshop for dairy Hispanic workers: TMR mixing – Feeder school. Gooding, Idaho. September 26th, 2007.
- Chahine, M. Basic and applied nutrition of dairy cattle: TMR mixing – Feeder school (Spanish), Gooding, Idaho, September 25th, 2007.
- Chahine, M. Metabolic diseases of dairy cattle: TMR mixing – Feeder school (Spanish), Gooding, Idaho, September 25th, 2007.
- Chahine, M. and R. Norell. Measuring dry matter concentration on the farm. TMR mixing - Feeder school (Spanish), Gooding, Idaho, September 25th, 2007.
- Chahine, M. and R. Norell. TMR Mixer operation. TMR mixing – Feeder school (Spanish), Gooding, Idaho, September 25th, 2007.
- Chahine, M. and R. Norell. Feedbunk management. TMR mixing – Feeder school (Spanish), Gooding, Idaho, September 25th, 2007.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Darlington, Idaho, September 24th, 2007.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Jerome, Idaho, August 30th, 2007.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Jerome, Idaho, August 23rd, 2007.
- Chahine, M. Nutrition and lactation of dairy cows. Idaho Tax Assessors Training, Boise, Idaho. August 1st, 2007. *Invited Presentation.*
- Chahine, M. Replacement heifers management. Idaho Tax Assessors Training, Boise, Idaho. August 1st, 2007. *Invited Presentation.*

- Chahine, M. A journey through the rumen, Jerome, Idaho, June 9th, 2007.
- Chahine, M. Overview of available biological risk management materials and resources. Moscow, Idaho. Biological Risk Management in-training service, April 9th, 2007.
- Chahine, M. Calf school for Spanish speaking and English speaking employees. Neonatal management and colostrum feeding (presented both in English and Spanish), Preston, Idaho, April 4th, 2007.
- Chahine, M. Forages and dairy cows rations. Southeastern Idaho Forage Seminar, Rexburg, Idaho, March 14th, 2007. *Invited Presentation.*
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Kuna, Idaho, March 13th, 2007.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), New Plymouth, Idaho, March 12th, 2007.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Raft River, Idaho, March 2nd, 2007.
- Chahine, M. and R. Norell. Alternatives during high grain prices. Winter forum, Preston, Idaho, March 1st, 2007.
- Chahine, M. Dairy cattle husbandry on improved forages and irrigated pastures. SWCS seminar, Twin Falls, Idaho, February 23rd, 2007. *Invited Presentation.*
- Chahine, M. A journey through the rumen. Mad Scientist Night. Twin Falls, Idaho, February 18th, 2007.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Jerome, Idaho, February 15th, 2007.

2006

- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Jerome Co, Idaho, October 26th, 2006.
- Chahine, M. A journey through the rumen. Gooding Co, Idaho, September 24th, 2006.
- Chahine, M. A journey through the rumen. Gooding Co, Idaho, September 23rd, 2006.
- Chahine, M. A journey through the rumen. Twin Falls Co, Idaho, July 6th, 2006.
- Dalton, J., Jensen, S., Chahine, M. Spanish speaking AI school. Twin Falls Co, Idaho, June 20th, 2006.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Jerome Co, Idaho, June 14th, 2006.
- Chahine, M. Personnel management on dairies . Winter school, Franklin Co, Idaho, March 29th, 2006.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Payette Co, Idaho, March 17th, 2006.
- Dalton, J., S. Jensen, and M. Chahine, Spanish speaking AI school, Canyon Co, Idaho, March 16th, 2006.
- Chahine, M. Achieving dairy quality hay. Southeastern Idaho Forage Seminar, Rexburg, Idaho, March 15th, 2006. *Invited Presentation.*
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Jefferson Co, Idaho, March 15th, 2006.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Cassia Co, Idaho, March 8th, 2006.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Lincoln Co, Idaho, February 26th, 2006.

2005

- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Twin Falls Co, Idaho, September 23rd, 2005.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Cassia Co, Idaho, July 7th, 2005.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Twin Falls Co, Idaho, June 28th, 2005.
- Chahine, M. Calf health (salud de los becerros). Bingham Co, Idaho, June 9th, 2005.
- Norell, R. J. and M. Chahine. Managing dairy calf housing (manejo del alojamiento de los becerros). Bingham Co, Idaho, June 9th, 2005.
- Norell, R. J. and M. Chahine. Feeding dairy calves (alimentar a los becerros de leche). Bingham Co,

- Idaho. June 9th, 2005.
- Chahine, M. Colostrum feeding (alimentación con calostro). Bingham Co, Idaho. June 9th, 2005.
- Etter, S. and M. Chahine. Basic neonatal management (manejo neonatal básico). Bingham Co, Idaho. June 9th, 2005.
- Chahine, M. Calving area cleanliness (limpieza del area del parto). Bingham Co, Idaho. June 9th, 2005.
- Chahine, M. Calf health (salud de los becerros). Twin Falls Co, Idaho. June 8th, 2005.
- Norell, R. J. and M. Chahine. Managing dairy calf housing (manejo del alojamiento de los becerros). Twin Falls Co, Idaho. June 8th, 2005.
- Norell, R. J. and M. Chahine. Feeding dairy calves (alimentar a los becerros de leche). Twin Falls Co, Idaho. June 8th, 2005.
- Chahine, M. Colostrum feeding (alimentación con calostro). Twin Falls Co, Idaho. June 8th, 2005.
- Etter, S. and M. Chahine. Basic neonatal management (manejo neonatal básico). Twin Falls Co, Idaho. June 8th, 2005.
- Norell, R. J. and M. Chahine. Managing dairy calf housing (manejo del alojamiento de los becerros). Canyon Co, Idaho. June 7th, 2005.
- Norell, R. J. and M. Chahine. Feeding dairy calves (alimentar a los becerros de leche). Canyon Co, Idaho. June 7th, 2005.
- Chahine, M. Colostrum feeding (alimentación con calostro). Canyon Co, Idaho. June 7th, 2005.
- Etter, S. and M. Chahine. Basic neonatal management (manejo neonatal básico). Canyon Co, Idaho. June 7th, 2005.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Cassia Co, Idaho. May 19th, 2005.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Franklin Co, Idaho. May 11th, 2005.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Payette Co, Idaho. April 21th, 2005.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Payette Co, Idaho. April 20th, 2005.
- Chahine, M. Reaching underserved audiences. University of Idaho Extension Annual Conference, Moscow, Idaho. April 5th 2005. *Invited Presentation.*
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Twin Falls Co, Idaho. March 1st, 2005.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Twin Falls Co, Idaho. February 10th, 2005.
- Cisneros, L. and M. Chahine. Spanish for Dairywomen IV. Twin Falls Co, Idaho. February 8th, 2005.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language calf raising school (crier becerros sanos). Bingham Co, Idaho. February 4th, 2005.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Bingham Co, Idaho. February 4th, 2005.
- Cisneros, L. and M. Chahine. Spanish for Dairywomen III. Twin Falls Co, Idaho. February 1st, 2005.
- Cisneros, L. and M. Chahine. Spanish for Dairywomen II. Twin Falls Co, Idaho. January 25th, 2005.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Twin Falls Co, Idaho. January 19th, 2005.
- Cisneros, L. and M. Chahine. Spanish for Dairywomen I. Twin Falls Co, Idaho. January 18th, 2005.

2004

- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Twin Falls Co, Idaho. November 25th, 2004.
- Chahine, M. Effective management of Hispanic employees. Jerome Co, Idaho. November 18th, 2004.
- Chahine, M. Ultrasound: A management tool for dairy cattle. Cassia Co, Idaho. November 4th, 2004.
- Chahine, M. Efficient management of dairy personnel. Jerome Co, Idaho. September 17th, 2004.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Twin Falls Co, Idaho. July 16th, 2004.
- Chahine, M. Rumen functions in dairy cattle. University of Idaho Extension. Kimberly R&E Center/Twin Falls R&E Center Twilight Tour. Kimberly Idaho. July 15th, 2004.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Twin Falls Co, Idaho. May 28th, 2004

- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Twin Falls Co, Idaho. May 27th, 2004
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Cassia Co, Idaho. May 20th, 2004
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Cassia Co, Idaho. May 19th, 2004
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Bingham Co, Idaho. May 10th, 2004
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Jefferson Co, Idaho. May 9th, 2004
- Chahine, M. Dry cow management (manejo de las vacas secas). Jerome Co, Idaho. April 27th, 2004.
- Chahine, M. Dry cow management (manejo de las vacas secas). Ada Co, Idaho. April 17th, 2004.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Twin Falls Co, Idaho. April 16th, 2004
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Twin Falls Co, Idaho. April 9th, 2004
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Twin Falls Co, Idaho. April 8th, 2004
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Butte Co, Idaho. March 8th, 2004
- Chahine, M. Forages in total mixed rations. Proc. 2004 Idaho Alfalfa and Forage Conference. Twin Falls Co, Idaho. February 25th, 2004.

2003

- Chahine, M. Personnel management on dairies, Twin Falls, Idaho. December 5th, 2003.

Publications:

Book Chapters:

- Fife, T. and M. Chahine. 2008. Parameters for good quality corn silage. Cow-Calf Management. CL320-1 to CL320-6. Published by the Western Beef Resource Committee.
- Chahine, M., and R. E. Sheffield. 2007. Ammonia concentrations downwind of dairies and heifer facilities. Pages 365-367 in Ammonia emissions in Agriculture. Gert-Jan Monteny and Eberhard Hartung, eds. Wageningen Academic Publishers. ISBN: 978-90-8686-029-6, the Netherlands.

Journals and Extension Publications (Refereed and peer-reviewed):

- Adams, A., J. Ahola, M. Chahine, A. Ohlheiser, and I. Roman-Muniz. Effect of on-farm dairy Beef Quality Assurance training on welfare-related traits in lactating dairy cows. J. Dairy Sci. (in review).
- Adams, A., J. Ahola, I. Roman-Muniz and M. Chahine. Effect of on-farm dairy Beef Quality Assurance (BQA) training on dairy worker knowledge of BQA and welfare related practices. Journal of Extension (in review).
- Chen, L.; C. W. Gray, W. Neibling; S. K. R. Yadanaparthi, M. Chahine, and M. E. de Haro Marti. 2014. On farm comparison of two dairy manure application methods in term of ammonia, odor emissions and cost. Applied Engineering in Agriculture. Vol. 30(5): 805-813.
- Norell, R. J., B. G. Glaze., M. Chahine, and N. L. Olsen. Methods for Measuring Dry Matter Content of Potatoes On-Farm. University of Idaho. Extension Bulletin (in review).
- 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. Extension Bulletin 888.

- Norell, R. and Chahine, M. 2014. Appropriate techniques for TMR mixing on dairies. (Técnicas Apropriadas de Mezclado de la Ración para Vacas Lecheras). eXtension fact sheet. Accepted.
- 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 Nutrient 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.
- Chahine, M., Pozo, O. and M. E. de Haro Marti. 2013. Appropriate Milking Routine (Rutinas apropiadas de ordeño). eXtension fact sheet. http://www.extension.org/pages/Materiales_en_español
- 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 workbook. (Spanish and English). Developed by University of Idaho Extension for University of Idaho Extension and College of Southern Idaho joint training.
- Chahine, M., M. E. de Haro Martí, and C. M. Matuk. 2012. Milker's Certification on Idaho Dairies workbook. (Spanish and English). Developed by University of Idaho Extension for University of Idaho Extension and College of Southern Idaho joint training.
- Peterson, S. E., P. Rezamand, J. E. Williams, W. Price, M. Chahine, and M. A. McGuire. 2012. Effects of dietary betaine on milk yield and milk composition of mid-lactating Holstein dairy cows. *J. Dairy Sci.* 95: 6557-6562.
- Hines, S., A. Moore, B. Brown, M. Chahine, R. J. Norell, M. E. de Haro Martí, C. Falen, T. Fife, S. Parkinson, and J. Ippolito. 2012. Using Extension Phosphorus Uptake Research to Improve Idaho's Nutrient Management Planning Program, *Journal of Extension*. 50-5: Article RIB10.
- Chahine, M. 2012. La higiene del ordeño (Effective hygienic measures in dairy farms). Albéitar, Spain. 156: 10-11 also in Portuguese in Albéitar, Portugal. 5: 14-16.
- Chahine, M. and M. E. de Haro Marti. ¿Cómo reducir el recuento de células somáticas? (How to reduce Somatic Cell Counts?). *Albeitar, Spain*. July 2010 (136): 4-6.
- Glaze, J. B. and M. Chahine. 2009. Assessment of Beef Quality Assurance (BQA) practices on Idaho dairies. *J. Dairy Sci.* 92:1265-1271.
- Allen, J. D., J. K. Ahola, M. Chahine, J. I. Szasz, C.W. Hunt, C. S. Schneider, G. K. Murdoch, and R. A. Hill. 2009. Effect of feeding period and ractopamine hydrochloride on feedlot performance, carcass characteristics, and end product quality in market dairy cows. *J. Anim. Sci.* 87: 2400-2408.
- Chahine.M. 2010. TMR mixing: The basics. 2010. eXtension fact sheet. http://www.extension.org/pages/Espanol_materials
- Chahine, M. 2010. Managing the feedbunk on dairies. eXtension fact sheet. http://www.extension.org/pages/Espanol_materials
- Fife, T.E. and M. Chahine. 2009. Principles of Successful Silage Management. Cow-Calf Management Guide and Cattle Producer's Library. Second Edition: Nutrition Section (320) 1-6.
- Chahine, M., J. B. Glaze, and V. Castillo. 2009. Dairy survey sheds light on preferred educational delivery methods. *Journal of Extension* (submitted).
- Chahine, M., G. Shewmaker, and T. Fife. 2009. Interpreting Corn Silage Analysis. CIS Bulletin (in review, English and Spanish).

- Shewmaker, G., Chahine, M. and R. Wilson. 2009. Parameters for good quality alfalfa hay. CIS Bulletin (in review, English and Spanish).
- Allen, J. D., J. K. Ahola, M. Chahine, J. I. Szasz, C.W. Hunt, C. S. Schneider, G. K. Murdoch, and R. A. Hill. 2009. Effect of feeding period and ractopamine hydrochloride on feedlot performance, carcass characteristics, and end product quality in market dairy cows. *J. Anim. Sci.* 2008-1630v1-20081630.
- Glaze, J. B. and M. Chahine. 2009. Assessment of Beef Quality Assurance (BQA) practices on Idaho dairies. *J. Dairy Sci.* 92:1265-1271.
- Shewmaker, G., O. Neher, M. Chahine, and B. Glaze. 2009. What to do with moldy hay? University of Idaho Fact Sheet.
- Sheffield, R. E., B. Brown, M. Chahine, M. de Haro Marti, and C. Fallen. 2008. Mitigating high phosphorus soils. CIS Bulletin 851.
- Chahine, M. J. Ahola, J. B. Glaze, J. C. Dalton and R. Norell. 2008. Garantía de Calidad de Carne del Bovino Lechero. University of Idaho. 16 pages.
- Ahola, J., M. Chahine, J. B. Glaze, J. C. Dalton and R. Norell. 2008. Idaho Dairy Beef Quality Assurance. University of Idaho. 16 pages.
- Olsen, N., S. Hines, D. Baker, L. Woodell, and M. Chahine. 2008. Good Agricultural Practices (GAP): Potato GAP audit organizational manual. Idaho Center for Potato Research and Education. 59 pages.
- Norell, R. J. and M. Chahine. 2008. Developing a feeding SOP (Desarrollar una alimentación con procedimientos operativos estándar). eXtension fact sheet. http://www.extension.org/pages/Materiales_en_español
- Norell, R. and M. Chahine. 2008. Measuring dry matter concentration on the farm (Midiendo la concentración de la material seca en la granja). eXtension fact sheet. http://www.extension.org/pages/Materiales_en_español
- Sheffield, R. E., M. Chahine, B. Dye, and M. Thompson. 2007. Odor emissions from Idaho dairies and heifer facilities. *Transactions of the ASABE* 50(1): 255-263.
- Norell, R., M. Chahine, and P. Beard. 2007. Ensiling Pressed Beet Pulp. CIS Bulletin 868.
- Chahine, M. 2007. Feeding Colostrum (Alimentación con Calostro). eXtension fact sheet. http://www.extension.org/pages/Materiales_en_español

Abstracts and Proceedings:

- Adams, A. E., J. K. Ahola, **M. Chahine**, A. L. Ohlheiser, and I. N. Roman-Muniz. Effect of on-farm dairy Beef Quality Assurance (BQA) training on worker knowledge of BQA and welfare-related practices. ADSA-ASAS-CSAS Joint Annual Meeting. Kansas City, Missouri. July 20-24, 2014. *Journal of Dairy Science*, Volume 97, E-Supplement 1. (Abstract).
- Norell, R. J., B. G. Glaze., **M. Chahine**, and N. L. Olsen. 2014. Evaluating on-farm methods for measuring dry matter content of potatoes. ADSA-ASAS-CSAS Joint Annual Meeting. Kansas City, Missouri. July 20-24, 2014. *Journal of Dairy Science*, Volume 97, E-Supplement 1. (Abstract).
- Norell, R. J., B. G. Glaze., **M. Chahine**, and N. L. Olsen. 2014. Optimizing drying time of potatoes by food dehydrator and Koster Moisture Tester. ADSA-ASAS-CSAS Joint Annual Meeting. Kansas City, Missouri. July 20-24, 2014. *Journal of Dairy Science*, Volume 97, E-Supplement 1. (Abstract).

- Adams, A. E.; J. K. Ahola; M. Chahine; A. L. Ohlheiser, and I. N. Roman-Muniz. Effect of on-farm dairy Beef Quality Assurance (BQA) training on the welfare and health of dairy cows. 2014. ADSA Discover Conference on Food Animal Agriculture: Strategies for Improving US Dairy Cattle Welfare. Itasca, Illinois. May 27-30, 2014. (Abstract).
- 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. 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.
- Chen, L., W. Gray, H. Neibling, S. Yadanaparathi, M. Chahine, and M. E. de Haro-Marti. 2014. On-farm comparison of manure application methods in terms of ammonia and odor emissions and costs. Idaho Nutrient Management Conference. Twin Falls, Idaho. March 6, 2014.
- Norell, R. and M. Chahine. 2014. Impact of macromineral nutrition (Na, K, Mg, Ca) of dairy cows on nutrient excretion. Idaho Nutrient Management Conference. Twin Falls, Idaho. March 6, 2014.
- L. Chen, S.K.R. Yadanapathi, M.E. de Haro Martí, W. Gray, H. Neibling, and 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.
- Adams, A. E.; J. K. Ahola; M. Chahine; A. L. Ohlheiser, and I. N. Roman-Muniz. Effect of on-farm dairy Beef Quality Assurance (BQA) training on the welfare and health of dairy cows. 2014 ADSA Discover Conference on Food Animal Agriculture: Strategies for Improving US Dairy Cattle Welfare.
- 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: Spreading Science and Solutions. Denver, Colorado. April 1-5, 2013.
- Chen, L., M. E. de Haro Martí, W. Gray, H. Neibling, M. Chahine and S. K. R. Yadanaparathi. 2013. On-farm comparison of two liquid dairy manure application methods in terms of ammonia emission, odor emission, and costs. From Waste to Worth Waste Management Conference: Spreading Science and Solutions. Denver, Colorado. April 1-5, 2013.
- Norell, R., M. Chahine, and M. E. de Haro Martí. 2012. Designer manures: managing manure production and nutrient quality. Proceedings of the Idaho Nutrient Management Conference. Jerome, Idaho. March 6, 2012. pp 54-60.
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- Master Cattle Transporter Video-Funded by Minnesota Beef Council
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http://www.extension.org/pages/Materiales_en_español
- Electrolytes for dairy calves. Electrolitos para terneras lecheras
http://www.extension.org/pages/Materiales_en_español
- A practical look at contagious mastitis. Una mirada práctica a la mastitis contagiosa.
<http://www.nmconline.org/translations.html> and
http://www.extension.org/pages/Materiales_en_español
- Teat disinfection facts. Hechos sobre la desinfección de los pezones

- <http://www.nmconline.org/translations.html> and
http://www.extension.org/pages/Materiales_en_espa%C3%B1ol
- Ten common reasons antibiotic contamination occurs in bulk tank milk. Diez razones comunes por las cuales ocurre la contaminación con antibióticos en los tanques de leche a granel.
<http://www.nmconline.org/translations.html>
- Interpreting corn silage analysis. Interpretación del análisis del ensilaje de maíz.
http://www.extension.org/pages/Materiales_en_espa%C3%B1ol
- How to safely manage dairy cattle. Manejo seguro del ganado lechero.
http://www.extension.org/pages/Materiales_en_espa%C3%B1ol
- Contagious vs. environmental mastitis. Mastitis contagiosa vs. ambiental.
http://www.extension.org/pages/Materiales_en_espa%C3%B1ol
- Methods for feeding a liquid diet to calves. Métodos para alimentar con líquidos a los terneros.
http://www.extension.org/pages/Materiales_en_espa%C3%B1ol
- Particle size and effective fiber in the ration of dairy cattle. Tamaño de partícula y fibra efectiva en la dieta de las vacas lecheras. http://www.extension.org/pages/Materiales_en_espa%C3%B1ol
- Dry cow therapy. Terapia de la vaca seca. <http://www.nmconline.org/translations.html> and
http://www.extension.org/pages/Materiales_en_espa%C3%B1ol
- Antibiotic use in dairy cattle. Uso de antibióticos en la ganadería lechera.
http://www.extension.org/pages/Materiales_en_espa%C3%B1ol
- Use of byproducts in growing dairy heifer diets. Uso de subproductos en la dieta de crecimiento de becerras lecheras. http://www.extension.org/pages/Materiales_en_espa%C3%B1ol
- Antibiotic use in dairy cattle. Pautas para el uso responsable de antibióticos. Poster. Minnesota Beef Council
- Feeding a scouring newborn calf. Alimentando terneros con diarrea neonatal.
http://www.extension.org/pages/Materiales_en_espa%C3%B1ol
- Translated and/or reviewed eXtension Frequently Asked Questions (FAQ 27121, FAQ 28212, FAQ 27954, FAQ 27953, FAQ 27908, FAQ 27909, FAQ 27937, FAQ 27119, FAQ 28211, FAQ 27713, FAQ 27534, FAQ 28247, FAQ 25661, FAQ 27792, FAQ 27592, FAQ 27974, FAQ 27730, FAQ 25302, FAQ 28246, FAQ 27588, FAQ 28245, FAQ 27590, FAQ 28244, FAQ 25477, FAQ 28213, FAQ 27127, FAQ 27955, FAQ 28210, FAQ 27125, FAQ 27717, FAQ 27599, FAQ 27736, FAQ 25633, FAQ 27790, FAQ 25604, FAQ 27973, FAQ 25710, FAQ 27734, FAQ 27735, FAQ 27806, FAQ 25486, FAQ 27934, FAQ 27952, FAQ 27731, FAQ 25427, FAQ 27805, FAQ 25585, FAQ 27788, FAQ 23705, FAQ 27716, FAQ 27715, FAQ 27714)
- Artificial insemination in Idaho-law governing the license to practice
 Artificial insemination exam
 Farm Management Software-Livestock
 Farm Management Software-Crop
 Farm Management Software-Machinery

Non Dairy Science Materials Translated/Reviewed for translation accuracy (not an all inclusive list)

- University of Idaho Diabetes website
 4-H recruiting flyer (bienvenidos a 4-H)
 4-H activity day flyer (el día de las actividades de 4H)
 Equal Opportunity Statement for the University of Idaho Extension (long and short version)
 Seafood brochure-University of Idaho Extension Nutrition Program
 Action in Idaho-University of Idaho Extension Nutrition Program
 Food Stamps flyer-University of Idaho Extension Nutrition Program
 Diabetes plate brochure-University of Idaho Extension Nutrition Program
 Food pyramids brochure-University of Idaho Extension Nutrition Program
 Artificial sweeteners brochure-University of Idaho Extension Nutrition Program
 Serving sizes brochure-University of Idaho Extension Nutrition Program
 Playing and learning with blocks handbook (jugar y aprender con bloques). University of Idaho Parents as Teachers program.

Thesis and Dissertation:

Chahine, M. 2004. Induction of lactation in non-pregnant reproductive cull Holstein cows. Ph.D. Dissertation. University of Minnesota, St. Paul.

Chahine, M. 1998. Estimation of in situ ruminal degradation of dry matter and carbohydrates in byproducts and cereal grains. M.S. Thesis. Facultad de Veterinaria, Universidad Autónoma de Barcelona (Spain, 1998).

Grants and Contracts Awarded:

Funded:

Chahine, M., P. Rezamand, and M. A. McGuire. 2014. Effect of feeding betaine on total tract digestibility of dairy cows. The Amalgamated Sugar Company. \$29,874.

Chahine, M. 2014. Idaho Dairy Extension Programs. United Dairymen of Idaho pre-harvest grants. \$5000.

Chahine, M. 2013. Idaho Dairy Extension Programs. United Dairymen of Idaho pre-harvest grants. \$5000.

Chahine, M., R. Norell, J. Dalton, M. E. de Haro-Marti, S. Jensen, B. Glaze, J. Hall, C. W. Gray, K. Kraich, C. M. Matuk. 2013. Spanish and English Dairy Cattle Welfare Curriculum and Educational Materials. University of Idaho Extension Topic Team Grants. \$10,000.

Chahine, M., R. Norell, J. Dalton, M. E. de Haro Martí, K. S. Jensen, J. B. Glaze, and J. B. Hall. 2013. Dairy workers Top Ten guidelines to improve animal welfare. United Dairyman of Idaho. \$4,750.

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., 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).

Chahine, M., J. B. Hall, B. Glaze, R. Norell, J. Dalton, M. E. de Haro-Marti, and S. Jensen. 2012. Dairy workers' top guidelines to improve animal welfare. Idaho Beef Council. \$6,839.

Ahola, J., M. Chahine, J. B. Hall., T. Grandin, and N. Roman-Muniz. 2012. Can Implementation of On-farm Dairy Beef Quality Assurance (BQA) Training Programs Improve the Productivity, Welfare, and Health of Dairy Cows, as well as Dairy Profitability? NCBA and Idaho Beef Council. \$32,500.

Spencer, T., P. Hansen, J. Dalton, H. Neibergs, J. Cole, A. DeVries, D. Moore, S. Dindot, T. Bilby, and M. Chahine. 2012. "Improving fertility of dairy cattle using translational genomics." Sponsor: United States Department of Agriculture, National Institute of Food and Agriculture, Agriculture and Food Research Initiative. Amount: \$3,000,000. (\$232,072 Idaho portion). Will be responsible of the Extension effort in Spanish.

Chahine, M., J. C. Dalton. M. E. de Haro Marti, S. Etter, S. Jensen, J. Packham, and R. J. Norell. 2012. Training for Hispanic Dairy Middle Managers. Topic Team Grant. \$2,790.

Chahine, M. 2012. Idaho Dairy Extension Programs. United Dairymen of Idaho pre-harvest grants. \$3,300 (for 2013).

- de Haro Martí, M. E., L. Chen, H. Neibling, and M. Chahine. 2011. Using zeolites to control odor, air emissions, and nutrient retention on Idaho dairy operations. USDA- NRCS Idaho Conservation and Innovation Grants. \$66,202.
- Chen, L., M .E. de Haro Martí, H. Neibling, M. Chahine, and C. W. Gray. 2011. Demonstration and Evaluation of Alternative Manure Management Techniques in Southern Idaho. USDA- NRCS Conservation and Innovation Grants. \$31,249.
- Dalton, J. C., R. J. Norell, and M. Chahine. 2011. Idaho Dairy Extension Programs. United Dairymen of Idaho pre-harvest grants. \$10,000 (for 2012).
- Chahine, M., J. Dalton. M. E. de Haro Marti, S. Etter, S. Jensen, J. Packham, and R. Norell. 2011. Training for Hispanic Dairy Middle Managers. Topic Team Grant. \$2,790.
- Falen, C., G. Shewmaker, S. Hines, L. Hunter, J. Packham, J. Hall, and M. Chahine. 2011. Harvest Timing Effects on Sorghum Sudangrass Forage Quality, Prussic Acid, Nitrate Content, and Yield. Topic Team Grant. \$3,000.
- Dalton, J. C., R. J. Norell, and M. Chahine. 2011. Idaho Dairy Extension Programs. United Dairymen of Idaho pre-harvest grants. \$10,000.
- 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.
- de Haro Martí, M.E., L. Chen, H. Neibling, and M. Chahine. 2011. Using zeolites to control odor, air emissions, and nutrient retention on Idaho dairy operations. USDA- NRCS Idaho Conservation and Innovation Grants. \$66,202.
- Chen, L., M.E. de Haro Martí, H. Neibling, M. Chahine, and C.W. Gray. 2011. Demonstration and Evaluation of Alternative Manure Management Techniques in Southern Idaho. USDA- NRCS Conservation and Innovation Grants. \$31,249.
- Raidl, M., M. Chahine, and D. Rumford. 2011. Translating the Healthy Diabetes Plate (HDP) website into Spanish. Topic Team Grant. \$1,150.
- Dalton, J. C., R. J. Norell, and M. Chahine. 2008. Idaho Dairy Extension Programs. United Dairymen of Idaho pre-harvest grants. \$10,000 (awarded for 2009 activities).
- Chahine, M., A. Leytem, M., Mcguire, and J. Ahola. 2008. Effect of Betaine on milk production and milk fat profile of mid-lactation dairy cows. Amalgamated Sugar Company. \$ 19,394.
- Chahine, M., R. Sheffield, and M. de Haro Marti. 2008. From feed to milk: A dairy trailer educational exhibit. United Dairymen of Idaho Pre-harvest grants. \$30,000.
- Dalton, J. C., R. J. Norell, and M. Chahine. 2008. Idaho Dairy Extension Programs. United Dairymen of Idaho pre-harvest grants. \$10,000.
- Ahola, J., M. Chahine, C. W. Hunt, R. A. Hill, and G. K. Murdoch. 2007. Evaluating the effects of pre-harvest feeding duration on market dairy cow carcass characteristics, value, and end-product eating quality. FY2008 Product Enhancement Research Proposal. NCBA Research and Knowledge Management Center. \$54,801.
- Chahine, M., and M. de Haro Marti. 2007. Survey of Hispanic employees working on Idaho dairies. Critical Issues Grants. \$ 3,000.
- Hines, S., B. Brown, M. Chahine, M. de Haro Marti, C. Fallen, and A. Moore. 2007. Corn phosphorus

uptake. Topic Team Grants. \$ 5,000.

Chahine, M., A. Hristov, S. Etter, and R. Norell. 2007. Effect of silage management on corn silage quality and nutritive value. Critical Issue Grant. \$ 2,100.

Norell, R., M. Chahine, S. Parkinson, J. Packham, and S. Etter. 2007. Measuring density of corn silage and haylage. Topic Team Grant. \$ 2,100.

Hristov, A., R. Norell, J. Dalton, M. Chahine, and A. Leytem. 2007. Educating Idaho dairy producers on the environmental and economic advantages of reducing whole-farm phosphorus surplus. United Dairymen of Idaho Pre-harvest grants . \$8,600.

Ahola, J. K., Benton Glaze, Jr., J. C. Dalton, M. Chahine, and R. Norell. 2007. Idaho Beef Quality Assurance (BQA) Program. \$16,060.

Amaral-Phillips, D., Benson, G., Chahine, M., Dahl, G., Gilson, W., Heinrichs, J., McAllister, A. J., Varner, M. 2006. National Dair-eX-NET: A national dairy information and communication resource. CSREES grant. \$15,000.

McGuire, M., S. McGuire, A. Ahmadzadeh, J. Dalton, and M. Chahine. 2006. Documentation of steroids in human and bovine milk. United Dairymen of Idaho Post-harvest grants. \$93,980.

Chahine, M. 2006. From Feed to Milk: A Dairy Educational Exhibit. United Dairymen of Idaho Pre-harvest grants. \$5,650.

St. Claire, S., J. Tomberlin, C. Sheppard, R. Sheffield, R. Hardy, W. Sealey, M. Chahine, and T. Peterson. 2006. 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.

Chahine, M., Norell, R., Jensen, S. and S. Etter. 2006. Spanish speaking TMR mixing/Feeding school-Dairy Topic Team Grant. \$3,000.

Dalton, J. C., R. J. Norell, and M. Chahine. 2006. Idaho Dairy Extension Programs. United Dairymen of Idaho pre-harvest grants. \$7,500.

Ahola, J. K., Chahine, M., Hill, R. A., Szasz, J. I., Richard, R. P., Hunt, C. W. 2006. Improving the quality and value of market dairy cow carcasses. Idaho Beef Council. \$24,566.

Ahola, J. K., Glaze, J., Dalton, J. C., Chahine, M., Norell, R. J. 2006. Development of Idaho's beef quality assurance (BQA) program. Idaho Beef Council. \$19,485.

Amaral-Phillips, D., Benson, G., Chahine, M., Dahl, G., Gilson, W., Heinrichs, J., McAllister, A. J., Varner, M. 2006. National DAIReXNET: A national dairy information and communication resource. CSREES grant. \$67,500.

Dalton, J. C., R. J. Norell, and M. Chahine. 2006. Idaho Dairy Extension Programs. United Dairymen of Idaho pre-harvest grants. \$7,500.

Chahine, M. 2005. Management and environmental factors affecting mastitis control on Idaho dairies., Hatch, Federal Grant, \$3,000.

Chahine, M.; Dalton, J.; Jensen, S. and Norell, R. 2005. Hispanic Calf Raising Schools-Dairy Topic Team Grant. \$3,000.

Sheffield, R. and M. Chahine. 2005. Effect of zeolite on odor control and milk quality. University of Idaho Critical Issue Grant. \$2,700.

- Dalton, J. C.; Jensen, S. and M. Chahine. 2005. A Spanish language educational opportunity for Idaho dairy employees: Artificial insemination of dairy cattle, University of Idaho. \$2,200.
- Chahine, M. 2005. Calf raising school in Spanish. Pfizer Animal Health. \$1,250.
- Dalton, J. C., R. J. Norell, and M. Chahine. 2005. Idaho Dairy Extension Programs. United Dairymen of Idaho pre-harvest grants. \$10,000.
- Chahine, M., R. Norell, J. C. Dalton, S. Jensen, B. Ohlensehlen. and J. Packham. 2004. Developing a Web Page for Creating Standard Operating Procedures (SOP) in English and Spanish University of Idaho Cooperative Extension Topic Team. University of Idaho Extension, Topic Team Grant. \$4,000.
- Chahine, M., J. C. Dalton, S. Jensen, and R. Norell. 2004. Hispanic milker's school. University of Idaho Cooperative Extension Topic Team. University of Idaho Extension, State Grant, 01/01/2004. \$3,000.
- Brown, B., J. Dalton, M. Chahine, S. Jensen, W. Hazen, S. Salisbury. 2004. Southern Idaho Winter Triticale Forage P Removal from Manured Fields. , Critical Issues, State Grant, 02/01/2004. \$2,100.

Pending:**Non-Funded:**

- Chahine, M. and M. de Haro Marti. 2012. Effect of Zeolite on odor control and gas emissions on Idaho dairies. United Dairymen of Idaho Environmental Grants. \$85,780.
- Chahine, M., P. Rezamand, M.E. de Haro Martí, L. Chen, R. Norell, and W. Gray. 2011. 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, and L. Chen. 2011. Black Soldier Fly: Adapting a Manure Management Tool to Cold Climates. USDA-WSARE grants. \$ 162,580.
- Karsky, T. J., R. J. Tallent, M. Chahine, and W. J. Loftus. 2011. Communications systems for Idaho Dairy Farmers Following a Disaster. National Science Foundation Grants. \$307,008.
- Chahine, M., de Haro Marti, 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.
- de Haro Marti, M., 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.
- Moore, A., M. Chahine, and M. de Haro Marti. 2008. Comprehensive analysis of Idaho dairy manure. United Dairymen of Idaho Environmental Grants. \$45,510.
- Gray, W. and M. Chahine. 2008. Livestock revenue insurance protection for Idaho producers. Western Center for Risk Management Education \$10,000.
- Hristov, A., R. Norell, J. Dalton, M. Chahine, R. Sheffield, and M. de Haro Marti. 2007. Reducing ammonia emissions from dairy manure through dietary manipulation. United Dairymen of Idaho

Pre-harvest grants. United Dairymen of Idaho Pre-harvest grants \$74,766.

Chahine, M., A. Leytem, R. Sheffield, D. Tarkalson, and M. de Haro Marti. 2007. Survey of hormone/steroid concentrations throughout the production facility of large scale dairies in Southern Idaho. \$108,900.

Chahine, M., R. Sheffield, and A. Leytem. 2006. Steroid sampling survey of waste from Idaho dairies. United Dairymen of Idaho Pre-harvest grants. \$45,650.

Ahola, J., M. Chahine, C. W. Hunt, R. A. Hill, and G. K. Murdock. 2006. Evaluating the effects of pre-harvest feeding duration and(or) inclusion of a feed additive on market dairy cow carcass characteristics, value, and end-product eating quality. NCBA Product Enhancement Research Proposal. \$99,742.

Tindall, K., M. Chahine, and R. Norell. 2006. Surveying dairies in southern Idaho as potential mosquito breeding sites. United Dairymen of Idaho Pre-harvest grants. \$8,233.

Hristov, A., R. Norell, J. Dalton, M. Chahine, and J. Araji. Practicality of reducing phosphorus in lactating cows diets. United Dairymen of Idaho Pre-harvest grants. \$63,252.

Hristov, A. N., M. Chahine, J. Dalton, S. Zaman. 2006. Inclusion of cull peas in dairy cows diets. Cool Season Food Legume Special Research Grants. \$34,700.

Amaral-Phillips, D., Benson, G., Chahine, M., Dahl, G., Gilson, W., Heinrichs, J., McAllister, A. J. 2005. National Dair-eX-NET: A national dairy information and communication resource. CSREES grant. \$75,000.

Chahine, M., Romans, J., Dooling, E. and Sanchez J. 2005. EMPOWER-WHAT YOU DO, MAKES A DIFFERENCE-Fifty ways to be a "CHANGE AGENT". University of Idaho Diversity Initiatives Growth Grant, \$ 2,990.

Chahine, M., A. Hristov, and W. Hazen, W. 2005. Effect of silage management on corn silage quality and nutritive value. United Dairymen of Idaho pre-harvest grants. \$29,000.

Chahine, M., R. Sheffield, and R. J. Norell. 2005. Vaca Verde (Green Cow Program): A bilingual Environmental Stewardship Curriculum for Dairy Workers. United Dairymen of Idaho pre-harvest grants. \$14,000.

Sheffield, R., M. Chahine, and B. Bequette. 2005. Online Dairy Academy: an online video and web-based conferencing system for the rapid dissemination of dairy technical information. United Dairymen of Idaho pre-harvest grants. \$10,000.

Dalton, J.C., M. Chahine, and K.S. Jensen. 2004. "A Spanish language educational opportunity for Idaho dairy employees: Artificial insemination of dairy cattle (revised)." Sponsor: University of Idaho Diversity Initiatives Growth Grant. Amount: \$1,500.

Dalton, J.C., M. Chahine, and K.S. Jensen. 2004. "A Spanish language educational opportunity for Idaho dairy employees: Artificial insemination of dairy cattle." Sponsor: University of Idaho Diversity Initiatives Growth Grant. Amount: \$2,997.

SERVICE:

Major Committee Assignments:

Regional/National/International

Western Dairy Management Conference Planning Committee, 2012-2013.
 American Dairy Science Association National Extension Committee, 2008-2013, chair 2011-2013.
 American Dairy Science Association Award Selection Committee for the West Agro, Inc. 2012-present.
 American Dairy Science Association Award Selection Committee for the DeLaval Dairy Extension Award, 2008-2011.
 DAIREXNET Management Team Member and Domain Leader, 2006-present.
 DAIREXNET webinars committee, 2010-present
 National Mastitis Council Education Committee, 2005-2013, chair 2011-2013.
 Pacific Northwest Animal Nutrition Conference, 2010-2013.
 Animal Agriculture and Climate Change Western Region Advisory working group. 2012-Present.
 Intermountain Nutrition Conference Committee, 2005-2009

State

Idaho Nutrient Management Conference Planning Committee, 2003-present.
 Raw milk response working group, 2010-present
 Innovation Center for US Dairy-Energy Saving Idaho Steering Committee, 2011-present
 Responsible for administering the State of Idaho Artificial Insemination Exam in Spanish, 2007-present.
 Idaho Johnes Task Force, 2006-2012
 Idaho Grazing Lands Conservation Initiative Task Force, 2007.

University:

University of Idaho Faculty Grievance Committee, 2004-2009

University of Idaho – College

College of Agricultural and Life Sciences Dairy Topic Team, 2003-present.
 College of Agricultural and Life Sciences Nutrient Management Topic team, 2003-present.
 College of Agricultural and Life Sciences Promotion and Tenure Committee, 2005-2007.
 College of Agricultural and Life Sciences Change Agent States for Engagement (CASE) committee, 2005-2009.
 Kimberly R & E Center/Twin Falls R & E Center Twilight Tour program committee, 2004, 2006, 2008
 Search Committee, Extension Waste Management Engineer-Twin Falls, 2008
 Search Committee, Extension Forage Specialist-Aberdeen, 2008
 Search Committee, Extension Educator-Twin Falls County, 2007
 Search Committee, Administrative Assistant I, Twin Falls R&E Center, 2005

University of Idaho-Animal and Veterinary Science Department:

Promotion/Tenure Committee (chair), Dr. Pedram Rezamand, 2013
 Third Year Review Committee (chair), Dr. Pedram Rezamand, 2009
 Third Year Review Committee, Dr. Jason Ahola, 2006
 Promotion/Tenure Committee, Dr. Joe Dalton, 2005
 Safety committee, 2005
 Promotion/Tenure Committee, Dr. Alex Hristov, 2004
 Search Committee, Beef Cattle Extension Specialist, 2004

Workshops, tours, events, etc. organized (not an all inclusive list):

Brazilian Dairy Producers Tour. October 14, 2014.
 Continuing education seminar for veterinarians and technicians (presenter A. Hinds – Caine Center).
 Twin Falls, Idaho. April 28, 2014.
 Dairy New Zealand Tour. November 3 and 4, 2013.

Continuing education seminar for veterinarians and technicians (presenter J. England – Caine center).

- Twin Falls, Idaho. April 16, 2013.
- Caine Center Dairy Block II dairy visits and processors' tour. Jerome, Idaho. July 2, 2013.
- United Dairymen of Idaho Caine Center tour. Caldwell, Idaho. July 23, 2013.
- Dairy New Zealand Tour. November 3 and 4, 2013.
- Dairy Middle Managers Roundtable:
- On-farm composting methods on dairies. Twin Falls, Idaho. January 24, 2013. (Presenter M. E. de Haro-Marti)
 - Manure management on Idaho dairies. Twin Falls, Idaho. January 24, 2013. (Presenter M. E. de Haro-Marti)
 - Low stress animal handling. Twin Falls, Idaho. April 18, 2013. (Presenter B. Glaze)
 - Evaluating changes in rations. May 30, 2013 (Presenter R. Norell)
- Dairy manure land application field day. Buhl, Idaho. October 30, 2012.
- Idaho's Journey for Diversity and Human Rights: When Cultures Meet. Pocatello and Twin Falls, Idaho. October 4-5, 2012.
- Manure collection and composting field day. Jerome, Idaho. July 24, 2012.
- Idaho dairy tour for Spanish dairy veterinarians and producers and allied industry. March 14-15, 2012.
- An Introduction in the Use of Livestock Gross Margin Insurance for Dairy Margin Protection. Twin Falls, Idaho, September 20, 2012 (presenter Brian Gould, University of Wisconsin).
- Dairy Middle Managers Roundtable:
- Feed bunk management and TMR mixer operation on dairies. Twin Falls, Idaho. October 11, 2012 (Presenter R. J. Norell)
 - Reproductive programs for dairy heifers. Twin Falls, Idaho. June 21, 2012 (Presenter J. C. Dalton)
 - The impact of cow health in quality defects in dairy cows. Twin Falls, Idaho. May 31, 2012 (Presenter C. Matuk, B. Ozer, and B. Glaze)
 - Dairy facilities and cow comfort II. Twin Falls, Idaho. April 26, 2012 (Presenter R. J. Norell)
 - Dairy facilities and cow comfort. Twin Falls, Idaho. January 19, 2012. (Presenter R. J. Norell)
- Pacific Northwest Forage Workers Conference, October 1st 2008.
- Kentucky Dairy Industry Representatives, Magic Valley, Idaho, September 13-14, 2005
- Australian Leaders Tour, Magic Valley, Idaho, May 23-24, 2005
- National Dairy Challenge Participants Tour, Magic Valley, Idaho, April 7-8 2005

Honors and Awards

- Luckey, B. P., Wittman, G., Shaklee H., Nauman, A., Traver S., Tift, K., Liddil A., Laumatia, L., Hampton, C., Hansen, L., and Chahine, M. National Association of Extension 4-H Agents Excellence in Teamwork Award – Western Region and state, Idaho's Journey for Diversity and Human Rights, September, 2013.
- Nominated for the ADSA DeLaval National Dairy Extension Award, 2011.
- University of Idaho Extension Diversity Award recognizing efforts to deliver outstanding extension programming to underserved audiences, Spring 2008.
- Efforts to educate Hispanic dairy workers recognized by Dr. Tim White president of the University of Idaho in his address to the General Faculty on August 23rd 2006.
- Hueg-Harrison Fellowship recognizing excellent academic record and relationship forged between graduate student and adviser. Summer 2002.
- Colonial Dames Scholarship recognizing academic achievements of an international student at the University of Minnesota. Winter 2002.
- Donker Graduate Award recognizing academic achievements and services rendered to community. University of Minnesota. Winter 2002.
- Recognition Award delivered by Dr. Christine Maziar, Dean of Graduate School, for services as a member of the Council of Graduate Students. University of Minnesota. Fall 2001.
- ICMA fellowship to prepare a PhD at the University of Barcelona. Spain 1998-2002. Declined to accept assistantship at the University of Minnesota.
- Sigma Xi, The Scientific Research Society. 1999.

Gamma Sigma Delta (International Agricultural Honor Society). 1999.
 CIHEAM fellowship to prepare a Master Research Project. Spain. 1996-1997.
 CIHEAM fellowship to attend an advanced course on Animal Production. Spain. 1995-1996.
 Lebanese National Agricultural Award: Lebanese Ministry of Agriculture & FAO. Beirut. 1995.

Membership in Professional Organizations/Societies

National Mastitis Council. 2003-present.
 Sigma Xi, The Scientific Research Society. 1999.
 Gamma Sigma Delta (International Agricultural Honor Society). 1999.
 American Dairy Science Association. 1998-present.

Webinars organized through DAIRExNET

Treatment and prevention of subclinical hypocalcemia. Dr. Garrett Oetzel, University of Wisconsin. December 16, 2014.

Causes and implications of subclinical hypocalcemia. Dr. Jesse Goff. Iowa State University. November 11, 2014.

Effective management of farm employees. Phil Durst and Stan Moore, Michigan State University. October 6, 2014.

Milking system design and analysis. Dr. Roger Thomson, Milk quality consultant. April 7, 2014.

Dairy reproduction: Identifying problems and solutions for your herd. Ray Nebel, Select Sires. March 17, 2014.

Forage fermentation: How to make good silage. University of Delaware. February 17, 2014.

Basic vaccinology: Why vaccines work or don't work. Dr. Dan Grooms. Michigan State University. January 14, 2014.

Potential and Pitfalls for Genomic Selection. Dr. Chad Dechow, Pennsylvania State University. January 14th, 2013

Better Milk Quality from Better Mastitis Therapy Decisions. Dr. Ron Erskine, Michigan State University. February 12th, 2013.

Outcome Driven Health Management . Dr. John R.Wenz, Washington State University. March 4th, 2013.

Far Off to Fresh Cow – Opportunities to Improve Transition Performance. Dr. Mike Overton, Elanco. March 18th, 2013.

Economic Analysis Tools for Dairy Reproduction Programs. Drs. Cabrera and Fricke. University of Wisconsin-Madison. April 8th, 2013

New Tools for Dairy Reproduction Programs. Dr. Fricke. April 22nd, 2013.

Economic Benchmarks for Dairies: Eight Rules You Cannot Break. Gary Sipiorski. October 7th, 2013

Assisting Rural Michigan and Wisconsin Farmers Make Decisions about On-Farm Small Scale Anaerobic Digesters. Ben Bailey and M. Charles Gould, Michigan State University. October 17th, 2013.

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