

CURRICULUM VITAE

University of Idaho

NAME: Mireille Chahine

DATE: June 30, 2024

RANK OR TITLE: Professor/Extension Dairy Specialist

DEPARTMENT: Animal, Veterinary and Food Sciences

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

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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 Professor (2016-Present) Department of Animal, Veterinary and Food Sciences, University of Idaho, Moscow, Idaho.

Extension Dairy Specialist and Associate Professor (2009-2016) Department of Animal and Veterinary Science, University of Idaho, Moscow, Idaho.

Extension Dairy Specialist and Assistant Professor (2003-2009) Department of Animal and Veterinary Science, University of Idaho, Moscow, Idaho.

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, 2009-2019

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, 2006-2019

DAIReXNET Spanish Materials Domain Leader, 2006-2019

Research collaborator, Institute of Agricultural Research and Technology (IRTA), Barcelona, Spain,
2005-2019
Member, Graduate Faculty, University of Idaho, 2003-Present

TEACHING ACCOMPLISHMENTS:

Areas of Specialization:

Dairy Cattle Management

Courses Taught:

University of Idaho

Study abroad Ag Ed 407, Guadalajara, Mexico Spring 2024, 2019, 2017, 2016.
Directed Studies AVS 502, 3 credits, Fall 2023
Directed Studies AVS 502, 3 credits, Fall 2022
Directed Studies AVS 502, 2 credits, Fall 2021
Growth and Lactation AVS 463/563, 3 credits, Fall 2018.
Summer Internship, Summer 2014, 2013, 2012.
Introduction to SAS, AVS 404, University of Idaho, 1 credit, Fall 2009.
Summer Internship, PISc 398 (4 cr.) Summer 2009.
Factors Affecting Dairy Animal Health, AVS 504 (2 cr.), Summer 2009.
Guest Instructor: Dairy Internship, AVS 398 (1 cr.), Spring 2008, 2007, 2006, 2005, 2004.
Lactation Physiology, AVS 404 (3 cr.) Spring 2006 (taught yearly after that until 2015 using the recorded video).
Guest Lecturer: Agricultural Waste Management, BAE 504 (3 cr.) Spring 2005.

College of Southern Idaho

Guest Lecturer, Utah State University, Spring 2024
Guest Lecturer, South Dakota State University, Spring 2021, 2023
Guest Lecturer, College of Southern Idaho, Veterinary Technician Program, Fall 2005.
Guest Lecturer, College of Southern Idaho, Veterinary Technician Program, Fall 2004.

University of Minnesota:

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

Students Advised:

Graduate Students:

Major Professor for:

Andrea Mouw (MS student)
Daniel Scoresby (MS student)
Megan Kissel (MS student)
Paul Smith (Ph.D. student)
Lani Martin (MS student, graduated Summer 2019)
Celina Matuk (MS student, graduated Summer 2018)
Bekir Ozer (MS student, graduated Summer 2018)

Committee Member for:

Kylee Elmore (MS student, graduated Summer 2022)
Cheyenne Meyers (MS student, graduated Summer 2022)
Leyby Guifarro (MS student, South Dakota State University, graduated Spring 2021)
Benjamin Tverdy (MS student, graduated Fall 2021)
Sachin Sharma (MS student, graduated Spring 2021)

Hao-Che Hung (MS student, graduated Spring 2018)
 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. Overview of heifer development in US dairy cattle. Livestock Genetics and Nutrition Road Show. Tepatitlan, Jalisco, Mexico, April 17, 2023 (invited presentation).
- Chahine, M. Overview of heifer development in US dairy cattle. Livestock Genetics and Nutrition Road Show. Torreon, Coahuila, Mexico, April 20, 2023 (invited presentation).
- Chahine, M. A series of bi-monthly webinar delivered virtually to dairy managers in Bangladesh. January-December 2023 (invited presentations).
- Chahine, M. 2022. Overview of Western feed and forage production. Western United States Agricultural Trade Association trade mission. Tokyo, Japan. November 17, 2022 (invited presentation).
- Chahine, M. 2022. Overview of Western feed and forage production. Western United States Agricultural Trade Association trade mission. November 14, 2022 (invited presentation).
- Chahine, M. 2022. Overview of dairy herd management to maximize profit. Celebrating 50 year of US – Bangladesh Cooperation in the Livestock Industry. Dhaka, Bangladesh. May 25, 2022 (Invited Presentation).
- Chahine, M. 2022. Heifer development through first calving in US dairy cattle. Celebrating 50 year of US – Bangladesh Cooperation in the Livestock Industry. Dhaka, Bangladesh. May 25, 2022 (Invited Presentation).
- Martin, L., G. Ferreira, C. L. Teets, S. Hines, G. Shewmaker, M. de Haro Marti, and M. Chahine. 2021. Effect of water stress on the digestibility of fibre in maize vegetative tissues. The Joint XXIV International Grassland and XI International Rangeland Congress, Nairobi, Kenya.
- De Haro Marti, M. and M. Chahine 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.
- Chahine, M. 2017. Managing dairy cows during the transition period. 6th International Conference on Biology, Chemistry, and Agronomy. Zapopan. Mexico. September 28, 2017. Invited presentation.
- Chahine, M. 2017. Dairy employment training. Puerto Rico Department of Labor Orientation Workshop. San Juan, Puerto Rico. May 11, 2017. Invited presentation.
- Chahine, M. 2017. Dairy employment training. Puerto Rico Department of Labor Orientation Workshop. Mayaguez, Puerto Rico. May 9, 2017. Invited presentation.
- Chahine, M. 2017. Dairy employment training. Puerto Rico Department of Labor Orientation Workshop. Ponce, Puerto Rico. May 8, 2017. Invited presentation.
- Chahine, M. 2017. The Idaho dairy industry and how to foster collaboration in dairy production through research and innovation. Universidad Autónoma de Guadalajara. Mexico. March 14, 2017. Invited presentation.
- Chahine, M. 2016. The Idaho dairy industry and how to foster collaboration in dairy production through research and innovation. Universidad Autónoma de Guadalajara. Mexico. March 16, 2016. Invited presentation.
- Chahine, M. 2014. Update on appropriate protocols to prevent mastitis on dairies (Spanish). Expolactea. 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 15, 2009.
- Chahine, M. Hoof care workshop in English and Spanish. 2009 ADSA®-CSAS-ASAS Joint Annual Meeting, Montreal, Canada, July 15, 2009.
- Chahine, M. Behavior, feed consumption and weight gain of calves on a large calf ranch. Eurovacum Conference, Vic, Barcelona, Spain, June 11, 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 10, 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 30, 2007.
- Chahine, M. and R. Sheffield. Ammonia emissions from Idaho dairies. First ammonia conference, Ede, The Netherlands. March 20, 2007.

National:

- Chahine, M. Selective dry cow therapy, Delta, UT, February 28, 2024. *Invited presentation.*
- Chahine, M. Selective dry cow therapy, Logan, UT, February 27, 2024. *Invited presentation.*
- Chahine, M. Idaho Station Report - Management systems to improve the economic and environmental sustainability of dairy enterprises, Raleigh, NC, October 12, 2023.
- Chahine, M. Optimizing milk quality on commercial dairies. Logan, UT, November 3, 2023. *Invited presentation.*
- Chahine, M. Idaho Station Report - Management systems to improve the economic and environmental sustainability of dairy enterprises, Tulare, CA, October 13, 2022.
- Rovai M. and M. Chahine. Dry treatment to control mastitis (presented in Spanish). National Mastitis Council Annual Meeting. San Diego, CA, February 1, 2022). *Invited presentation*
- Chahine, M. Idaho Station Report - Management systems to improve the economic and environmental sustainability of dairy enterprises, Ithaca, NY October 7, 2021.
- Chahine, M. 2020. Impact of nutrition on the lactation of dairy cows. South Dakota State University Seminar, Brookings, South Dakota. March 6, 2020. Chahine, M. Selective dry cow therapy, Delta, UT, February 28, 2024. *Invited presentation.*
- Chahine, M. and M. Rovai. 2020. Protocols, standard operating procedures and Employee training to improve milk safety and quality. 2020 Midwest ASAS/ADSA meeting (invited presentation).
- Tejeda, H., G. Ferreira, and M. Chahine. 2020. Cash-flow development & projections. Hands-on educational workshops to improve risk management and financial decision-making for dairy. Fillmore, Utah, January 27, 2020 (Team taught).
- Tejeda, H., G. Ferreira, and M. Chahine. 2020. Cash-flow development & projections. Hands-on educational workshops to improve risk management and financial decision-making for dairy. Brigham City, Utah, January 28, 2020 (Team taught).
- Tejeda, H., G. Ferreira, and M. Chahine. 2020. Analysis and Exercises of critical financial stress moments in cash flow setting. Hands-on educational workshops to improve risk management and financial decision-making for dairy. Fillmore, Utah, January 27, 2020 (Team taught).
- Tejeda, H., G. Ferreira, and M. Chahine. 2020. Analysis and Exercises of critical financial stress moments in cash flow setting. Hands-on educational workshops to improve risk management and financial decision-making for dairy. Brigham City, Utah, January 28, 2020 (Team taught).
- Tejeda, H., R. Larsen, and M. Chahine. 2019. The Dairy Revenue Protection Program. Fillmore, Utah. November 18, 2019.
- Tejeda, H., R. Larsen, and M. Chahine. 2019. Understanding Dairy Futures and Options Contracts. Fillmore, Utah. November 18, 2019.
- Tejeda, H., R. Larsen, and M. Chahine. 2019. The Dairy Revenue Protection Program. Brigham City, Utah. November 19, 2019.
- Tejeda, H., R. Larsen, and M. Chahine. 2019. Understanding Dairy Futures and Options Contracts. Brigham City, Utah. November 19, 2019.
- Chahine, M. 2017. Optimizing milk quality: from employee training strategies to hospital management. National Mastitis Council Regional Meeting. Boise, ID. July 19, 2017. *Invited*

- presentation.
- Chahine, M. 2017. Immigrant labor on dairies. Western Dairy Challenge. Twin Falls, ID. Invited presentation.
- Chahine, M. G. Shewmaker, R. J. Norell, and C. W. Gray. 2010. Dairy industry economics and its effects on hay and forage producers. Colorado Farm Show, Greeley, Co. January 28, 2010. Invited presentation.
- Chahine, M. 2009. How dairies are dealing with the current economic crisis: Impact on forages, 2009 Western Alfalfa and Forage Symposium, Reno, Nevada, December, 2009. Invited presentation.
- Chahine, M. 2009. Opportunities to increase non-milk revenues on dairy. Pacific Northwest Animal Nutrition Conference, Boise, Idaho, October 8, 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. 2008. Comparing three different methods for assessing corn silage density. American Dairy Science Association Annual Meeting. Indianapolis, Indiana. July 9, 2008.
- Chahine, M. 2007. Cultural issues concerning dairy workers. Amarillo Farm Show, Amarillo, Texas, November 27, 2007. Invited presentation.
- Chahine, M. 2007. Managing a multicultural dairy team. World Dairy Expo, Madison, Wisconsin, October 4, 2007. Invited presentation.
- Chahine, M. 2007. Cull cow and calf marketing methods employed by Idaho dairies. American Dairy Science Association Annual Meeting. San Antonio, Texas. July 11, 2007.
- Chahine, M. and G. Shewmaker. Oregon King Hay Contest. 2006. Oregon State University and Oregon Hay Association. Christmas Valley, Oregon, December 15, 2006. Invited presentation.
- Chahine, M. 2006. Dairy Market-What kind of hay are dairies looking for? Oregon State University Alfalfa Hay Meeting, Ontario, Oregon, November 28, 2006. Invited presentation.
- Chahine, M. 2006. Spanish language educational opportunities for Idaho dairy employees-milker school. American Dairy Science Association Annual Meeting. Minneapolis, Minnesota, July 8, 2006.
- Chahine, M. 2006. Spanish language educational opportunities for Idaho dairy employees-calf raising school. American Dairy Science Association Annual Meeting. Minneapolis, Minnesota, July 8, 2006.
- Chahine, M. 2006. Recordkeeping on Idaho dairies. American Dairy Science Association Annual Meeting. Minneapolis, Minnesota, July 8, 2006.
- Chahine, M. 2006. Why is Alfalfa important in a dairy cow's ration? 33rd Annual Fertilizer and Chemical Conference. Jackpot, Nevada. January 11, 2006. Invited presentation.
- Chahine, M. 2005. Relationship of cow cleanliness during the close-up period and milk quality following calving. Cincinnati, Ohio, July 27, 2005.
- Chahine, M. 2004. Parlor management when culture and languages collide. Pre-conference short course, NMC 2004 Regional Meeting, Bloomington, Minnesota. June 29, 2004. Invited presentation.
- Chahine, M. and G. Shewmaker. 2004. Oregon King Hay Contest. Oregon State University and Oregon Hay Association. Bend, Oregon, December 11, 2004. Invited presentation.

State:2023

- McConnell-Soong, L., M. E. de Haro-Martí, S. G. Lee, M. Chahine, J. Peutz, and B. Morrisroe-Aman. 2023. Mobile vaccine clinic and Farm safety and vaccination class. EXCITE vaccination clinic and education program. Murtaugh, ID. January 26, 2023.
- Chahine, M. 2023. Selective Dry Cow Treatment. Winter Dairy Forum. Preston, ID. February 22, 2023.
- Chahine, M. 2023. Idaho Sustainable Agriculture Initiative for Dairy (ISAID): Helping the Idaho Dairy Industry Harness the Power of Manure. Winter Dairy Forum. Preston, ID. February 22, 2023.
- Chahine, M. Body condition scoring of dairy cows, RMS-ABS training, Twin Falls (February 9, 2023).

Chahine, M. Cow comfort on dairies, RMS-ABS training, Twin Falls (February 9, 2023).

Chahine, M. Effect of disease on reproduction and economics of dairies, RMS-ABS training, Twin Falls (February 9, 2023).

Chahine, M. Managing transition cows, RMS-ABS training, Twin Falls (February 9, 2023).

Chahine, M. Body condition scoring of dairy cows, RMS-ABS training, Twin Falls (May 11, 2023).

Chahine, M. Cow comfort on dairies, RMS-ABS training, Twin Falls (May 11, 2023).

Chahine, M. Effect of disease on reproduction and economics of dairies, RMS-ABS training, Twin Falls (May 11, 2023).

Chahine, M. Managing transition cows, RMS-ABS training, Twin Falls (May 11, 2023).

Chahine, M. Body condition scoring of dairy cows, RMS-ABS training, Twin Falls (September 25, 2023).

Chahine, M. Cow comfort on dairies, RMS-ABS training, Twin Falls (September 15, 2023).

Chahine, M. Effect of disease on reproduction and economics of dairies, RMS-ABS training, Twin Falls (September 25, 2023).

Chahine, M. Managing transition cows, RMS-ABS training, Twin Falls (September 25, 2023).

Chahine, M. Body condition scoring of dairy cows, RMS-ABS training, Twin Falls (November 2, 2023).

Chahine, M. Cow comfort on dairies, RMS-ABS training, Twin Falls (November 2, 2023).

Chahine, M. Effect of disease on reproduction and economics of dairies, RMS-ABS training, Twin Falls (November 2, 2023).

Chahine, M. Managing transition cows, RMS-ABS training, Twin Falls (November 2, 2023).

Chahine, M. Dairy West Idaho Milk Quality Award. Dairy West Annual Meeting. Boise (November 8, 2023).

2022

Chahine, M. ISAID Extension products, ISAID Student retreat, Online, November 30, 2022.

Chahine, M. Body condition scoring of dairy cows, RMS-ABS training, Twin Falls (November 29, 2022).

Chahine, M. Cow comfort on dairies, RMS-ABS training, Twin Falls (November 29, 2022).

Chahine, M. Effect of disease on reproduction and economics of dairies, RMS-ABS training, Twin Falls (November 29, 2022).

Chahine, M. Managing transition cows, RMS-ABS training, Twin Falls (November 29, 2022).

Chahine, M. Dairy West Idaho Milk Quality Award. Dairy West Annual Meeting. Boise (November 9, 2022).

Chahine, M. Body condition scoring of dairy cows, RMS-ABS training, Twin Falls (October 27, 2022).

Chahine, M. Cow comfort on dairies, RMS-ABS training, Twin Falls (October 27, 2022).

Chahine, M. Effect of disease on reproduction and economics of dairies, RMS-ABS training, Twin Falls (October 27, 2022).

Chahine, M. Managing transition cows, RMS-ABS training, Twin Falls (October 27, 2022).

Chahine, M. ISAID Extension program update. ISAID Annual Meeting 2022 and Regenerative Ag Workshop. Twin Falls, ID. October 3, 2022.

Chahine, M. Idaho Sustainable Agriculture Initiative for Dairy (ISAID): Helping the Idaho Dairy Industry Harness the Power of Manure. AVFS Departmental seminar (September 9, 2022)

Chahine, M. Body condition scoring of dairy cows, RMS-ABS training, Twin Falls (August 24, 2022).

Chahine, M. Cow comfort on dairies, RMS-ABS training (August 24, 2022).

Chahine, M. Managing transition cows, RMS-ABS training, Twin Falls (August 24, 2022).

Chahine, M. Dairy sustainability. Dairy West Stem tour, Twin Falls (June 15, 2022)

Chahine, M. Body condition scoring of dairy cows, RMS-ABS training, Twin Falls (June 14, 2022).

Chahine, M. Cow comfort on dairies, RMS-ABS training, Twin Falls (June 14, 2022).

Chahine, M. Effect of disease on reproduction and economics of dairies, RMS-ABS training, Twin Falls (June 14, 2022).

Chahine, M. Managing transition cows, RMS-ABS training, Twin Falls (June 14, 2022).

Chahine, M. and L. Schott. What is Extension? ISAID goals for Extension products, ISAID retreat

(May 4, 2022).

- Chahine, M. Body condition scoring of dairy cows, RMS-ABS training, Twin Falls (March 7, 2022).
 Chahine, M. Effect of disease on reproduction and economics of dairies, RMS-ABS training, Twin Falls (March 7, 2022).
 Chahine, M. Cow comfort on dairies, Statewide, RMS-ABS training, Twin Falls (March 7, 2022).
 Chahine, M. Managing transition cows, RMS-ABS training, Twin Falls (March 7, 2022).
 Tejada, H. and M. Chahine. Automatic calf feeder systems – Risk management associated with use of automatic milking and feeding systems (Robots) for western dairies. Marsing (February 9, 2022)
 Tejada, H. and M. Chahine. Automatic milking systems – Risk management associated with use of automatic milking and feeding systems (Robots) for western dairies. Marsing (February 9, 2022)
 Tejada, H. and M. Chahine. Automatic calf feeder systems – Risk management associated with use of automatic milking and feeding systems (Robots) for western dairies. Twin Falls (February 8, 2022)
 Tejada, H. and M. Chahine. Automatic milking systems – Risk management associated with use of automatic milking and feeding systems (Robots) for western dairies. Marsing (February 8, 2022)
 Tejada, H. and M. Chahine. Automatic calf feeder systems – Risk management associated with use of automatic milking and feeding systems (Robots) for western dairies. Preston (February 7, 2022)
 Tejada, H. and M. Chahine. Automatic milking systems – Risk management associated with use of automatic milking and feeding systems (Robots) for western dairies. Marsing (February 7, 2022)
 Chahine, M. Body condition scoring of dairy cows, RMS-ABS training, Twin Falls (January 26, 2022).
 Chahine, M. Effect of disease on reproduction and economics of dairies, RMS-ABS training, Twin Falls (January 26, 2022).
 Chahine, M. Cow comfort on dairies, Statewide, RMS-ABS training, Twin Falls (January 26, 2022).
 Chahine, M. Managing transition cows, RMS-ABS training, Twin Falls (January 26, 2022).

2021

- Chahine, M. Body condition scoring of dairy cows, RMS-ABS training, Twin Falls (October 20, 2021).
 Chahine, M. Cow comfort on dairies, Statewide, RMS-ABS training, Twin Falls (October 20, 2021).
 Chahine, M. Effect of disease on reproduction and economics of dairies, RMS-ABS training, Twin Falls (October 20, 2021).
 Chahine, M. Managing transition cows, RMS-ABS training, Twin Falls (October 19, 2021).
 Chahine, M. Body condition scoring of dairy cows, RMS-ABS training, Twin Falls (September 15, 2021).
 Chahine, M. Cow comfort on dairies, Statewide, RMS-ABS training (September 15, 2021).
 Chahine, M. Managing transition cows, RMS-ABS training, Twin Falls (September 15, 2021).
 Chahine, M. Cow comfort on dairies, Statewide, RMS-ABS training, Twin Falls (October 20, 2021).
 Chahine, M. Managing transition cows, RMS-ABS training, Twin Falls (August 18, 2021).
 Chahine, M. You got funded: Now what?. University of Idaho Extension. Invited virtual presentation (May 10, 2021)
 Chahine, M. Effect of drought on forage quality, Middle Herd Management, Twin Falls (April 21, 2021).
 Chahine, M. Hoof health in dairy cattle, Middle Herd Management, Twin Falls (April 7, 2021).
 Chahine, M. Dairy West Sustainability Panel, Virtual Meeting (March 17, 2021).

2020

- Chahine, M. 2020. Dairy Research & Extension Programs. Extension Advisory Board Meeting. October 14, 2020. (Invited Virtual Presentation).

- Chahine, M. Effect of disease on reproduction and economics of dairies. RMS training program. Twin Falls, Idaho. August 20, 2020.
- Chahine, M. Managing transition cows. RMS training program. Twin Falls, Idaho. August 20, 2020.
- Chahine M. Nutrition of pre-weaned and post-weaned calves. 4-H days. Gooding, Idaho. May 7, 2020 (Via Zoom).
- Tejeda, H., G. Ferreira, and M. Chahine. 2020. Cash-flow development & projections. Hands-on educational workshops to improve risk management and financial decision-making for dairy. Preston, Idaho, January 29, 2020 (Team taught).
- Tejeda, H., G. Ferreira, and M. Chahine. 2020. Cash-flow development & projections. Hands-on educational workshops to improve risk management and financial decision-making for dairy. Twin Falls, Idaho, January 30, 2020 (Team taught).
- Tejeda, H., G. Ferreira, and M. Chahine. 2020. Cash-flow development & projections. Hands-on educational workshops to improve risk management and financial decision-making for dairy. Marsing, Idaho, January 31, 2020 (Team taught).
- Tejeda, H., G. Ferreira, and M. Chahine. 2020. Analysis and Exercises of critical financial stress moments in cash flow setting. Hands-on educational workshops to improve risk management and financial decision-making for dairy. Preston, Idaho, January 29, 2020 (Team taught).
- Tejeda, H., G. Ferreira, and M. Chahine. 2020. Analysis and Exercises of critical financial stress moments in cash flow setting. Hands-on educational workshops to improve risk management and financial decision-making for dairy. Twin Falls, Idaho, January 30, 2020 (Team taught).
- Tejeda, H., G. Ferreira, and M. Chahine. 2020. Analysis and Exercises of critical financial stress moments in cash flow setting. Hands-on educational workshops to improve risk management and financial decision-making for dairy. Marsing, Idaho, January 31, 2020 (Team taught).

2019

- Tejeda, H., R. Larsen, and M. Chahine. 2019. The Dairy Revenue Protection Program. Preston, Idaho. November 20, 2019.
- Tejeda, H., R. Larsen, and M. Chahine. 2019. Understanding Dairy Futures and Options Contracts. Preston, Idaho. November 20, 2019.
- Tejeda, H., R. Larsen, and M. Chahine. 2019. The Dairy Revenue Protection Program. Twin Falls, Idaho. November 21, 2019.
- Tejeda, H., R. Larsen, and M. Chahine. 2019. Understanding Dairy Futures and Options Contracts. Twin Falls, Idaho. November 21, 2019.
- Tejeda, H., R. Larsen, and M. Chahine. 2019. The Dairy Revenue Protection Program. Marsing, Idaho. November 22, 2019.
- Tejeda, H., R. Larsen, and M. Chahine. 2019. Understanding Dairy Futures and Options Contracts. Marsing, Idaho. November 22, 2019.
- Chahine, M. Managing transition cows. RMS training program. Twin Falls, Idaho. April 10, 2019.
- Chahine, M. Effect of disease on reproduction and economics of dairies. RMS training program. Twin Falls, Idaho. April 10, 2019.
- Chahine, M. Managing transition cows. RMS training program. Twin Falls, Idaho. June 18, 2019.
- Chahine, M. Effect of disease on reproduction and economics of dairies. RMS training program. Twin Falls, Idaho. June 18, 2019.
- Chahine, M. Effect of disease on reproduction and economics of dairies. RMS training program. Twin Falls, Idaho. September 18, 2019.
- Chahine, M. Idaho Dairy Industry. China Dairy Tour. Twin Falls, Idaho. September 25, 2019.
- Chahine, M. Managing transition cows. RMS training program. Twin Falls, Idaho. September 18, 2019.
- Chahine, M. Effect of disease on reproduction and economics of dairies. RMS training program. Twin Falls, Idaho. October 2, 2019.
- Chahine, M. Managing transition cows. RMS training program. Twin Falls, Idaho. October 2, 2019.

2018

- Tejeda, H., M. Chahine and G. Ferreira. 2018. Dairy break even cost and sensitivity. Twin Falls, Idaho. January 23, 2018.
- Tejeda, H., M. Chahine and G. Ferreira. 2018. Analysis of investments. Risk assessment and

- management for dairy farmers in the Western Region. Twin Falls, Idaho. January 23, 2018.
- Tejeda, H., M. Chahine and G. Ferreira. 2018. Dairy break even cost and sensitivity. Preston, Idaho. January 24, 2018.
- Tejeda, H., M. Chahine and G. Ferreira. 2018. Analysis of investments. Risk assessment and management for dairy farmers in the Western Region. Preston, Idaho. January 24, 2018.
- Tejeda, H., M. Chahine and G. Ferreira. 2018. Dairy break even cost and sensitivity. Marsing, Idaho. January 25, 2018.
- Tejeda, H., M. Chahine and G. Ferreira. 2018. Analysis of investments. Risk assessment and management for dairy farmers in the Western Region. Marsing, Idaho. January 25, 2018.
- Tejeda, H., M. Chahine and G. Ferreira. 2018. Hedging by learning and investing in futures and options. Twin Falls, Idaho. March 6, 2018.
- Tejeda, H., M. Chahine and G. Ferreira. 2018. Dairy expansion and growth process. Risk assessment and management for dairy farmers in the Western Region. Twin Falls, Idaho. March 6, 2018.
- Tejeda, H., M. Chahine and G. Ferreira. 2018. Hedging by learning and investing in futures and options. Preston, Idaho. March 7, 2018.
- Tejeda, H., M. Chahine and G. Ferreira. 2018. Dairy expansion and growth process. Risk assessment and management for dairy farmers in the Western Region. Preston, Idaho. March 7, 2018.
- Tejeda, H., M. Chahine and G. Ferreira. 2018. Hedging by learning and investing in futures and options. Marsing, Idaho. March 8, 2018.
- Tejeda, H., M. Chahine and G. Ferreira. 2018. Dairy expansion and growth process. Risk assessment and management for dairy farmers in the Western Region. Marsing, Idaho. March 8, 2018.
- Chahine, M. Managing transition cows. RMS training program. Twin Falls, Idaho. May 16, 2018.
- Chahine, M. Effect of disease on reproduction and economics of dairies. RMS training program. Twin Falls, Idaho. May 16, 2018.
- Chahine, M. "MOO Signs". Understanding what your cows are telling you! Middle Herd Managers Workshop. Twin Falls, Idaho. June 6, 2018.
- Chahine, M. A journey through the rumen. Kimberly R & E Center Twilight Tour, Kimberly, Idaho. July 17, 2018.
- Chahine, M. Effects of drought stress on corn digestibility in dairy cattle. Corn growth, drought and silage management field day. Kimberly, Idaho, September 3, 2018.
- Chahine, M. Effect of disease on reproduction and economics of dairies. RMS training program. Twin Falls, Idaho. September 24, 2018.
- Chahine, M. Managing transition cows. RMS training program. Twin Falls, Idaho. September 24, 2018.
- Chahine, M. Effect of disease on reproduction and economics of dairies. RMS training program. Twin Falls, Idaho. November 5, 2018.
- Chahine, M. Managing transition cows. RMS training program. Twin Falls, Idaho. November 5, 2018.

2017

- Tejeda, H., M. Chahine and G. Ferreira. 2017. Developing dairy business strategic plans. Risk assessment and management for dairy farmers in the Western Region. Twin Falls, Idaho. November 16, 2017.
- Tejeda, H., M. Chahine and G. Ferreira. 2017. Importance and analysis of balance sheets. Risk assessment and management for dairy farmers in the Western Region. Twin Falls, Idaho. November 16, 2017.
- Tejeda, H., M. Chahine and G. Ferreira. 2017. Cash flow and budgeting in dairy. Risk assessment and management for dairy farmers in the Western Region. Twin Falls, Idaho. November 16, 2017.
- Tejeda, H., M. Chahine and G. Ferreira. 2017. Developing dairy business strategic plans. Risk assessment and management for dairy farmers in the Western Region. Preston, Idaho. November 15, 2017.
- Tejeda, H., M. Chahine and G. Ferreira. 2017. Importance and analysis of balance sheets. Risk assessment and management for dairy farmers in the Western Region. Preston, Idaho. November 15, 2017.
- Tejeda, H., M. Chahine and G. Ferreira. 2017. Cash flow and budgeting in dairy. Risk assessment and management for dairy farmers in the Western Region. Preston, Idaho. November 15, 2017.

- Chahine, M. Managing transition cows. RMS training program. Twin Falls, Idaho. November 1, 2017.
- Chahine, M. Effect of disease on reproduction and economics of dairies. RMS training program. Twin Falls, Idaho. November 1, 2017.
- Chahine, M. Managing transition cows. RMS training program. Twin Falls, Idaho. October 11, 2017.
- Chahine, M. Effect of disease on reproduction and economics of dairies. RMS training program. Twin Falls, Idaho. October 11, 2017.
- Rovai, M. and M. Chahine. "MOO Signs". Understanding what your cows are telling you! Middle Herd Managers Workshop. Twin Falls, Idaho. July 27, 2017.
- Chahine, M. Feeding dairy goats and sheep. Dairy Sheep and Goats Workshop. Gooding, Idaho. July 25, 2017.
- Chahine, M. Managing transition cows. RMS training program. Twin Falls, Idaho. July 7, 2017.
- Chahine, M. Effect of disease on reproduction and economics of dairies. RMS training program. Twin Falls, Idaho. July 7, 2017.
- Chahine, M. Managing transition cows. RMS training program. Twin Falls, Idaho. May 6, 2017.
- Chahine, M. Effect of disease on reproduction and economics of dairies. RMS training program. Twin Falls, Idaho. May 6, 2017.
- Chahine, M. A training workshop for workers: A milker school for Spanish Speaking employees. Preston, Idaho, April 7, 2017.
- Chahine, M. A training workshop for workers: A milker school for Spanish Speaking employees. Jerome, Idaho, April 2, 2017.
- Chahine, M. Managing transition cows. RMS training program. Twin Falls, Idaho. March 25, 2017.
- Chahine, M. Effect of disease on reproduction and economics of dairies. RMS training program. Twin Falls, Idaho. March 25, 2017.
- Chahine, M. Mammary physiology. Middle Herd Managers Workshop. Twin Falls, Idaho. February 16, 2017.
- Rovai, M. and M. Chahine. The Link between mammary gland physiology and mastitis. Middle Herd Managers Workshop. Twin Falls, Idaho. February 16, 2017.
- Rovai, M. and M. Chahine. Mammary gland dissection. Twin Falls, Idaho. February 16, 2017.

2016

- Chahine, M. A training workshop for workers: A milker school for Spanish Speaking employees. Bruneau, Idaho, January 16, 2016.
- Chahine, M. Animal handling training (Spanish). Bruneau, Idaho. January 16, 2016.
- Chahine, M. Lameness on dairies. Vet and Vet Tech Continuing Education Seminar. Twin Falls, Idaho. February 29, 2016.
- Chahine, M. Principles of low stress animal handling. Hispanic worker's protection and safety program. Jerome, Idaho. March 8, 2016.
- Chahine, M. Managing transition cows. RMS training program. Twin Falls, Idaho. May 18, 2016.
- Chahine, M. Effect of disease on reproduction and economics of dairies. RMS training program. Twin Falls, Idaho. May 18, 2016.
- Chahine, M. Principles of low stress animal handling. RMS training program. Twin Falls, Idaho. May 18, 2016.
- Chahine, M. A training workshop for workers: A milker school for Spanish Speaking employees. Bruneau, Idaho, July 2, 2016.
- Chahine, M. Animal handling training (Spanish). Bruneau, Idaho. July 2, 2016.
- Chahine, M. University of Idaho resources available for dairy sheep and goat producers. Dairy Goat and Sheep Workshop. Gooding, Idaho. July 15, 2016.
- Chahine, M. Milk production in Idaho. International scholars' dairy tour. Twin Falls, Idaho. July 18, 2016.
- Chahine, M. Managing transition cows. RMS training program. Twin Falls, Idaho. July 27, 2016.
- Chahine, M. Effect of disease on reproduction and economics of dairies. RMS training program. Twin Falls, Idaho. July 27, 2016.
- Chahine, M. Managing transition cows. RMS training program. Twin Falls, Idaho. September 28, 2016.
- Chahine, M. Effect of disease on reproduction and economics of dairies. RMS training program. Twin

Falls, Idaho. September 28, 2016.

- Chahine, M. Managing transition cows. RMS training program. Twin Falls, Idaho. November 2, 2016.
 Chahine, M. Effect of disease on reproduction and economics of dairies. RMS training program. Twin Falls, Idaho. November 2, 2016.
 Chahine, M. A training workshop for workers: A milker school for Spanish Speaking employees. Twin Falls, Idaho, November 1, 2016.
 Chahine, M. Animal handling training (Spanish). Twin Falls, Idaho. November 1, 2016.

2015

- Chahine, M. 2015. Update on Automatic Milking Systems. DHIA supervisor's conference. Twin Falls, Idaho. August 6, 2015.
 Chahine, M. 2015. University of Idaho Extension Dairy Programs. DHIA supervisor's conference. Twin Falls, Idaho. August 6, 2015.
 Chahine, M. 2015. A journey through the rumen. Ag days. Rexburg, Idaho. June 18, 2015.
 Chahine, M. 2015. Animal handling training (Spanish). Jerome, Idaho. May 1, 2015.
 Chahine, M. 2015. Animal handling training (Spanish). Jerome, Idaho. April 16, 2015.
 Chahine, M. 2015. Managing transition cows. RMS training program. Twin Falls, Idaho. April 8, 2015.
 Chahine, M. 2015. Effect of disease on reproduction and economics of dairies. RMS training program. Twin Falls, Idaho. April 8, 2015.
 Chahine, M. 2015. Managing transition cows. RMS training program. Twin Falls, Idaho. March 25, 2015.
 Chahine, M. 2015. Effect of disease on reproduction and economics of dairies. RMS training program. Twin Falls, Idaho. March 25, 2015.
 Chahine, M. 2015. A training workshop for workers: A milker school for Spanish Speaking employees. Jerome, Idaho, March 18, 2015.
 Chahine, M. 2015. A training workshop for workers: A milker school for Spanish Speaking employees. Jerome, Idaho, March 10, 2015.
 Chahine, M. 2015. Dairy labor pool development. Idaho Dairymen's Association. Twin Falls, Idaho. January 16, 2015.
 Chahine, M. 2015. Animal handling training (Spanish). Jerome, Idaho. January 15, 2015.
 Chahine, M. 2015. Managing transition cows. RMS training program. Twin Falls, Idaho. January 5, 2015.
 Chahine, M. 2015. Effect of disease on reproduction and economics of dairies. RMS training program. Twin Falls, Idaho. January 5, 2015.
 Chahine, M. 2015. Principles of low stress animal handling. RMS training program. Twin Falls, Idaho. January 5, 2015.
 Chahine, M. 2015. Heat stress in dairy cattle. RMS training program. Twin Falls, Idaho. January 5, 2015.

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. RMS training program. Twin Falls, Idaho. November 19, 2014 (presented in Spanish).
 Chahine, M. 2014. Heat stress in dairy cattle. RMS training program. Twin Falls, Idaho. November 19, 2014 (presented in Spanish).
 Chahine, M. 2014. Managing transition cows. RMS training program. Twin Falls, Idaho. November 19, 2014 (presented in Spanish).
 Chahine, M. 2014. Effect of disease on reproduction and economics of dairies. 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. RMS training program. Twin Falls, Idaho. November 11, 2014.
- Chahine, M. 2014. Effect of disease on reproduction and economics of dairies. 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. RMS training program. Twin Falls, Idaho. November 5, 2014.
- Chahine, M. 2014. Managing transition cows. RMS training program. Twin Falls, Idaho. November 5, 2014.
- Chahine, M. 2014. Effect of disease on reproduction and economics of dairies. RMS training program. Twin Falls, Idaho. October 24, 2014.
- Chahine, M. 2014. Managing transition cows. 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. RMS training program. Twin Falls, Idaho. October 8, 2014.
- Chahine, M. 2014. Managing transition cows. RMS training program. Twin Falls, Idaho. October 8, 2014.
- Chahine, M. 2014. Effect of disease on reproduction and economics of dairies. RMS training program. Twin Falls, Idaho. September 24, 2014.
- Chahine, M. 2014. Managing transition cows. RMS training program. Twin Falls, Idaho. September 24, 2014.
- Chahine, M. 2014. Principles of low stress animal handling. RMS training program. Twin Falls, Idaho. June 23, 2014.
- Chahine, M. 2014. Heat stress in dairy cattle. RMS training program. Twin Falls, Idaho. June 23, 2014.
- Chahine, M. 2014. Managing transition cows. RMS training program. Twin Falls, Idaho. June 23, 2014.
- Chahine, M. 2014. Effect of disease on reproduction and economics of dairies. 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. RMS training program. Twin Falls, Idaho. May 14, 2014.
- Chahine, M. 2014. Managing transition cows. 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. 2014. Principles of low stress animal handling. RMS training program. Twin Falls, Idaho. February 12, 2014.
- Chahine, M. 2014. 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 25, 2011.

Chahine, M. 2011. A journey through the rumen. Thousand Springs Festival. Wendell, Idaho, September 24, 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 15, 2010.
- Chahine, M. Dairy Science Teaching Program in Idaho. NC1042 Annual Meeting. Twin Falls, Idaho, October 15, 2010.
- Chahine, M. A training workshop for workers: A milker school for Spanish Speaking employees, Jerome, Idaho, August 11, 2010.
- Chahine, M. A journey through the rumen. University of Idaho Twilight Tour. July 21, 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 10, 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 9, 2010.
- Chahine, M. A training workshop for workers: A milker school for refugees, Twin Falls, Idaho, February 12, 2010.
- Chahine, M. A training workshop for workers: A milker school for refugees, Twin Falls, Idaho, February 11, 2010.
- Chahine, M. A training workshop for workers: A milker school for refugees, Twin Falls, Idaho, February 9, 2010.

2009

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

- Chahine, M. Raising healthy calves, Kuna, Idaho, January 29, 2009.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Kuna, Idaho, January 28, 2009.

2008

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

2007

- Chahine, M. Reproductive tract of dairy cattle. Spanish speaking AI school, Twin Falls, Idaho, December 10, 2007.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Jerome, Idaho, December 4, 2007.
- Chahine, M. Efecto de la nutrición sobre la salud de las pezuñas. Escuela de pezuñas, Jerome, Idaho, November 29, 2007.
- Chahine, M. Effect of nutrition on hoof health. Hoof care workshop, Jerome, Idaho, November 28, 2007.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Jerome, Idaho, November 16, 2007.
- Chahine, M. A journey through the rumen, 1000 springs festival, Hagerman, Idaho, September 30, 2007.

- Chahine, M. A journey through the rumen, 1000 springs festival, Hagerman, Idaho, September 29, 2007.
- Chahine, M. Basic and applied nutrition of dairy cattle. TMR mixing – Feeder school (English), Gooding, Idaho, September 26, 2007.
- Chahine, M. Metabolic diseases of dairy cattle: TMR mixing – Feeder school (English), Gooding, Idaho, September 26, 2007.
- Norell, R. and M. Chahine. Measuring dry matter concentration on the farm. TMR mixing - Feeder school (English), Gooding, Idaho, September 26, 2007.
- Chahine, M. A training workshop for dairy Hispanic workers: TMR mixing – Feeder school. Gooding, Idaho. September 26, 2007.
- Chahine, M. Basic and applied nutrition of dairy cattle: TMR mixing – Feeder school (Spanish), Gooding, Idaho, September 25, 2007.
- Chahine, M. Metabolic diseases of dairy cattle: TMR mixing – Feeder school (Spanish), Gooding, Idaho, September 25, 2007.
- Chahine, M. and R. Norell. Measuring dry matter concentration on the farm. TMR mixing - Feeder school (Spanish), Gooding, Idaho, September 25, 2007.
- Chahine, M. and R. Norell. TMR Mixer operation. TMR mixing – Feeder school (Spanish), Gooding, Idaho, September 25, 2007.
- Chahine, M. and R. Norell. Feedbunk management. TMR mixing – Feeder school (Spanish), Gooding, Idaho, September 25, 2007.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Darlington, Idaho, September 24, 2007.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Jerome, Idaho, August 30, 2007.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Jerome, Idaho, August 23, 2007.
- Chahine, M. Nutrition and lactation of dairy cows. Idaho Tax Assessors Training, Boise, Idaho. August 1, 2007. *Invited Presentation.*
- Chahine, M. Replacement heifers management. Idaho Tax Assessors Training, Boise, Idaho. August 1, 2007. *Invited Presentation.*
- Chahine, M. A journey through the rumen, Jerome, Idaho, June 9, 2007.
- Chahine, M. Overview of available biological risk management materials and resources. Moscow, Idaho. Biological Risk Management in-training service, April 9, 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 4, 2007.
- Chahine, M. Forages and dairy cows rations. Southeastern Idaho Forage Seminar, Rexburg, Idaho, March 14 2007. *Invited Presentation.*
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Kuna, Idaho, March 13, 2007.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), New Plymouth, Idaho, March 12, 2007.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Raft River, Idaho, March 2, 2007.
- Chahine, M. and R. Norell. Alternatives during high grain prices. Winter forum, Preston, Idaho, March 1, 2007.
- Chahine, M. Dairy cattle husbandry on improved forages and irrigated pastures. SWCS seminar, Twin Falls, Idaho, February 23, 2007. *Invited Presentation.*
- Chahine, M. A journey through the rumen. Mad Scientist Night. Twin Falls, Idaho, February 18, 2007.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Jerome, Idaho, February 15, 2007.

2006

- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Jerome Co, Idaho, October 26, 2006.
- Chahine, M. A journey through the rumen. Gooding Co, Idaho, September 24, 2006.
- Chahine, M. A journey through the rumen. Gooding Co, Idaho, September 23, 2006.
- Chahine, M. A journey through the rumen. Twin Falls Co, Idaho, July 6, 2006.

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

2005

- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Twin Falls Co, Idaho, September 23, 2005.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Cassia Co, Idaho, July 7, 2005.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño), Twin Falls Co, Idaho, June 28, 2005.
- Chahine, M. Calf health (salud de los becerros). Bingham Co, Idaho, June 9, 2005.
- Norell, R. J. and M. Chahine. Managing dairy calf housing (manejo del alojamiento de los becerros). Bingham Co, Idaho, June 9, 2005.
- Norell, R. J. and M. Chahine. Feeding dairy calves (alimentar a los becerros de leche). Bingham Co, Idaho. June 9, 2005.
- Chahine, M. Colostrum feeding (alimentación con calostro). Bingham Co, Idaho. June 9, 2005.
- Etter, S. and M. Chahine. Basic neonatal management (manejo neonatal básico). Bingham Co, Idaho. June 9, 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 8, 2005.
- Norell, R. J. and M. Chahine. Managing dairy calf housing (manejo del alojamiento de los becerros). Twin Falls Co, Idaho. June 8, 2005.
- Norell, R. J. and M. Chahine. Feeding dairy calves (alimentar a los becerros de leche). Twin Falls Co, Idaho. June 8, 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 8, 2005.
- Norell, R. J. and M. Chahine. Managing dairy calf housing (manejo del alojamiento de los becerros). Canyon Co, Idaho. June 7, 2005.
- Norell, R. J. and M. Chahine. Feeding dairy calves (alimentar a los becerros de leche). Canyon Co, Idaho. June 7, 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 7, 2005.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Cassia Co, Idaho. May 19, 2005.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Franklin Co, Idaho. May 11, 2005.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Payette Co, Idaho. April 21, 2005.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Payette Co, Idaho. April 20, 2005.
- Chahine, M. Reaching underserved audiences. University of Idaho Extension Annual Conference,

Moscow, Idaho. April 5, 2005. *Invited Presentation.*

- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Twin Falls Co, Idaho. March 1, 2005.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Twin Falls Co, Idaho. February 10, 2005.
- Cisneros, L. and M. Chahine. Spanish for Dairyemen IV. Twin Falls Co, Idaho. February 8, 2005.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language calf raising school (criar becerros sanos). Bingham Co, Idaho. February 4, 2005.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Bingham Co, Idaho. February 4, 2005.
- Cisneros, L. and M. Chahine. Spanish for Dairyemen III. Twin Falls Co, Idaho. February 1, 2005.
- Cisneros, L. and M. Chahine. Spanish for Dairyemen II. Twin Falls Co, Idaho. January 25, 2005.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Twin Falls Co, Idaho. January 19, 2005.
- Cisneros, L. and M. Chahine. Spanish for Dairyemen I. Twin Falls Co, Idaho. January 18, 2005.

2004

- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Twin Falls Co, Idaho. November 25, 2004.
- Chahine, M. Effective management of Hispanic employees. Jerome Co, Idaho. November 18, 2004.
- Chahine, M. Ultrasound: A management tool for dairy cattle. Cassia Co, Idaho. November 4, 2004.
- Chahine, M. Efficient management of dairy personnel. Jerome Co, Idaho. September 17, 2004.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Twin Falls Co, Idaho. July 16, 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 15, 2004.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Twin Falls Co, Idaho. May 28, 2004
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Twin Falls Co, Idaho. May 27, 2004
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Cassia Co, Idaho. May 20, 2004
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Cassia Co, Idaho. May 19, 2004
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Bingham Co, Idaho. May 10, 2004
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Jefferson Co, Idaho. May 9, 2004
- Chahine, M. Dry cow management (manejo de las vacas secas). Jerome Co, Idaho. April 27, 2004.
- Chahine, M. Dry cow management (manejo de las vacas secas). Ada Co, Idaho. April 17, 2004.
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Twin Falls Co, Idaho. April 16, 2004
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Twin Falls Co, Idaho. April 9, 2004
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Twin Falls Co, Idaho. April 8, 2004
- Chahine, M. A training workshop for dairy Hispanic workers: Spanish language milker school (escuela de ordeño). Butte Co, Idaho. March 8, 2004
- Chahine, M. Forages in total mixed rations. Proc. 2004 Idaho Alfalfa and Forage Conference. Twin Falls Co, Idaho. February 25, 2004.

2003

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

Publications:

Refereed/Adjudicated:**Book Chapters:**

- 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., 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:

- Kolif, A. E., O. A. Olafadehan, G. A. Gouda, M. Fahmy, T. A. Morsy, H. Ammar, H. A. Hamdon and M. Chahine. 2024. Turmeric rhizomes reduced in vitro methane production and improved gas production and nutrient degradability. *Animal Biotechnology*.
<https://doi.org/10.1080/10495398.2024.2371519>
- Stahl, T., E. Mullin, Emily, J. Piñeiro, M. Lunak., M. Chahine, and P. Erickson. 2024. Creating models for the prediction of colostrum quantity, quality, and Immunoglobulin G yield in multiparous Jersey Cows from performance in the previous lactation and environmental changes. *Journal of Dairy Science*. Volume 107(7): 4855-4870.
- Kholif, A. E., M. A. Rahman, S. A. H. Abo El-Nor, T. A. Morsy, G. A. Gouda, M. Fahmy and M. Chahine. 2024. Efficacy of *Salvia Officinalis* shrub as a sustainable feed additive for reducing ruminal methane production and enhancing fermentation in ruminants. *Animals* 14(11), 1648 (19 pages).
<https://doi.org/10.3390/ani14111648>
- Hassan, O. G. A., Hassaan, N. A., A. E. Kholif, M. Chahine and G. A. Mousa. 2024. Influence of replacing soybean meal with *Nigelia sativa* meal on feed intake, digestibility, growth performance, blood metabolites, and antioxidant activity of growing lambs. *Animals* 14(13): 1878 (15 pages)
<https://doi.org/10.3390/ani14131878>
- Hatzenbuehler, P., M. Chahine, D. Xiaxue, and T. Guang. 2023. Quantification of Feed Crop Supply and Demand in Idaho, 2003–2021. *Western Economic Forum*. Volume 21(1): 30-42.
- Ferreira, F. C. M. Rovai, M. Chahine, M. E. de Haro Marti, J. Wenz, J. Dalton, N. Silva-Del-Rio. 2023. Perspectives of dairy employees at the beginning of the COVID-19 pandemic: A survey of health risks and educational needs. *JDS Communications*. Volume 4(3): 186-190. Doi: 10.3168/jdsc.2022-0253
- Ammar, H. , A. E. Kholif, M. Missaoui, H. Zoabi, S. Ghzayel, M. E. de Haro-Martí, I. A. Teixeira, S. Fkiri, M. L. Khouja, M. Fahmy, G. A. Gouda, S. Lopez and M. Chahine. 2023. Seasonal Variation in Chemical Composition, Ruminal Fermentation, and Biological Characteristics of *Paulownia shan tong*: In Vitro Potential Use by Sheep and Goats. *Fermentation*, 210; <https://doi.org/10.3390/fermentation9030210>
- Valldecabres A, J. Wenz, F. C. Ferreira, M. Chahine, J. Dalton, M. E. de Haro Marti, M. Rovai, and N. Silva-Del-Río. 2022. Perspective of dairy producers from California, Idaho, South Dakota, and Washington: Health and business implications of the COVID-19 pandemic during the second wave. *Journal of Dairy Sci*. 105 (2): 1788-1796.
- Ammar, H., I. Touihri, A. E. Kholif, Y. M. Rabet, R. Jaouadi, M. Chahine, M. E. de Haro Marti, E. Vargas-Bello-Pérez, and K. Hosni. 2022. Chemical Composition, Antioxidant, and Antimicrobial Activities of Leaves of *Ajuga Iva*. *Molecules* 27, no. 20: 7102. <https://doi.org/10.3390/molecules27207102>
- Ammar, H., A. E. Kholif, Y. A. Soltan, M. I. Almadani, W. Soufran, A. S. Morsy, S. Ouerghemmi, M. Chahine, M. E. de Haro-Marti, S. Hassan, H. Selmi, E. H. Horst, and S. Lopez. 2022. Nutritive Value of *Ajuga iva* as a Pastoral Plant for Ruminants: Plant Phytochemicals and In Vitro Gas Production and Digestibility. *Agriculture*. 12, 1199. <https://doi.org/10.3390/agriculture12081199>
- Jabri, J., H. Ammar, K. Abid, Y. Beckers, H. Yaich, A. Malek, J. Rekhis, A. S. Morsy, Y. A. Soltan, W. Soufan, M. A. ALmadani, M. Chahine, M. E. de Haro Marti, M. O. Okla, M. Kamoun. 2022. Effect of Exogenous Fibrolytic Enzymes Supplementation or Functional Feed Additives on In Vitro Ruminal Fermentation of Chemically Pre-Treated Sunflower Heads. *Agriculture*, 12, 696. <https://doi.org/10.3390/agriculture12050696>
- Ferreira, G., A. Burch, L. L. Martin, S. L. Hines, G. E. Shewmaker, and M. Chahine. 2021. Effect of drought stress on in situ ruminal starch degradation kinetics of corn for silage. *Animal Feed Science and*

- Technology. 279. 115027.
- Ferreira, G., L. L. Martin, C. Teets, B. A. Corl, S. L. Hines, G. E. Shewmaker, M. E. de Haro Martí, and M. Chahine. 2021. Effect of drought stress on in vitro neutral detergent fiber digestibility of corn for silage. *Animal Feed Science and Technology*. 273. 114803.
- Hung, H., C. Tsai, G. Chibisa, M. Chahine, and P. Rezamand. 2021 Total tract apparent digestibility, serum fatty acid profile, and productive performances of mid-lactating dairy cows fed with dietary betaine. *Journal of Agricultural Science and Technology*. 11: 237-246.
- Tejeda, H., X. Du, L. Lu, A. Westerhold, and M. Chahine. 2020. Investigating factors affecting adoption of Automated Milking Systems (AMS) in Idaho. *Western Economics Forum* 18(2020) Issue no. 2: 24-39. <https://waeonline.org/western-economics-forum/>
- Klaeui, C., M. E. de Haro Marti, M. Chahine, and G. E. Chibisa. 2020. Altering the particle size of supplemental zeolite (clinoptilolite): effects on nitrogen utilization and nutrient digestibility in backgrounding cattle. *Translational Animal Science*, Volume 4, Issue Supplement_1, December 2020, Pages S132–S136. <https://doi.org/10.1093/tas/txaa120>
- Ammar, H. A. Sourour, A. Mediha, N. Moujahed, M. E. de Haro-Marti, M. Chahine, R. Bouraoui, S. Lopez, H. M'Hamed, and H. Hechlef. 2020. Estimation of Tunisian greenhouse gas emissions from different livestock species. *Agriculture* 2020, 10(11), 562; [doi:10.3390/agriculture10110562](https://doi.org/10.3390/agriculture10110562)
- de Haro Martí, M.E., W.H. Neibling, L. Chen, and M. Chahine. 2020. On-farm testing of a zeolite filter to capture ammonia and odors from a dairy manure flushing system. *Trans. of the ASABE*. 63(3). <https://doi.org/10.13031/trans.13556>
- Chahine, M., de Haro-Marti, M., Matuk, C, Aris, A., Campbell, J. and A. Bach. 2019. Effects of spray-dried plasma protein in diets of early lactation dairy cows on health, milking and reproductive performance. *Animal Feed Science and Technology*, Vol. 257. <https://doi.org/10.1016/j.anifeedsci.2019.114266>
- Bouajila, A., Ammar, H., Chahine, M., Khouja, M., Hamdi, Z., Khechini, J., Zeidan, A., Salem, M., Ghorbel, A., and Lopez, S. 2019. Changes in phytase activity, phosphorus and phytate contents during grain germination of barley (*Hordeum vulgare* L.) cultivars. *Agroforest Syst*, <https://doi.org/10.1007/s10457-019-00443-y>
- Adams, A., J. Ahola, I. Roman-Muniz and M. Chahine. 2016. Effect of on-farm dairy Beef Quality Assurance (BQA) training on dairy worker knowledge of BQA and welfare related practices. *Journal of Extension* 54-5: Article 5RIB8.
- Adams, A., J. Ahola, M. Chahine, A. Ohlheiser, and I. Roman-Muniz. 2016. Case Study: Effect of on-farm dairy Beef Quality Assurance training on welfare-related traits in lactating dairy cows. *The Professional Animal Scientist* 32 (3): 368-374.
- 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.
- 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.
- 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*. 2008-1630v1-20081630.

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.

Peer Reviewed/Evaluated:

Extension Publications:

- Hatzenbuehler, P., M. Chahine, X. Du and G. Tian. 2023. Changing Idaho feed supply and demand – Implications. University of Idaho Extension Bulletin 1060. Can be accessed at <https://www.uidaho.edu/extension/publications/publication-detail?id=bul1060>
- Rovai, M., L. Guifarro, M. E. de Haro Marti, and M. Chahine. 2020. Information on how to deal with COVID-19 for dairy workers (English and Spanish). <https://extension.sdstate.edu/information-how-deal-covid-19-dairy-workers>
- Rovai, M., L. Guifarro, M. E. de Haro Marti, and M. Chahine. 2020. Communicating with dairy farm employees in the time of COVID-19 <https://extension.sdstate.edu/communicating-dairy-farm-employees-time-covid-19>
- Tejeda, H., G. Ferreira, M. Chahine, and M. de Haro Martí. 2020. Risk assessment and decision-making guidelines for dairy risk management -- Part II. University of Idaho Extension Bulletin 953. <https://www.extension.uidaho/publishing/pdf/BUL/BUL953.pdf>
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Dairy Science Materials Translated/Reviewed for translation accuracy (not an all-inclusive list)

Guidelines for responsible antibiotic use (Pautas para el uso responsable de antibióticos)-Poster funded by Minnesota Beef Council
 Recommended guidelines: prevent injection site blemishes (Pautas recomendadas: prevenga daños en el sitio de inyección) - Poster funded by Minnesota Beef Council
 Master Cattle Transporter Video-Funded by Minnesota Beef Council
 The value and use of Dairy Herd Improvement Somatic Cell Count. El valor y uso del mejoramiento del Conteo Celular Somático del Hato Lechero. <http://www.nmconline.org/translations.html> and http://www.extension.org/pages/Materiales_en_español
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 Teat disinfection facts. Hechos sobre la desinfección de los pezones <http://www.nmconline.org/translations.html> and http://www.extension.org/pages/Materiales_en_español
 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_español
 How to safely manage dairy cattle. Manejo seguro del ganado lechero. http://www.extension.org/pages/Materiales_en_español
 Contagious vs. environmental mastitis. Mastitis contagiosa vs. ambiental. http://www.extension.org/pages/Materiales_en_español
 Methods for feeding a liquid diet to calves. Métodos para alimentar con líquidos a los terneros. http://www.extension.org/pages/Materiales_en_español
 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_español
 Dry cow therapy. Terapia de la vaca seca. <http://www.nmconline.org/translations.html> and http://www.extension.org/pages/Materiales_en_español
 Antibiotic use in dairy cattle. Uso de antibióticos en la ganadería lechera. http://www.extension.org/pages/Materiales_en_español
 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_español
 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_español
 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:**

Teixeira, I., M. Chahine, A. Skibieli, P. Rezamand, H. Tejada, and B. Richards. 2024. Using milk urea nitrogen as a nutritional and environmental decision making tool to improve dairy sustainability. Western SARE. \$ 349,999.
 Arispe, S. J., Ranches, M. Small, M. Chahine, G. Maier, and L. Costa. 2024. Mitigating risks towards a secure beef supply in Western States. NIFA-USDA Western Extension Risk Management Education Center. \$74,290.
 Tejada, H. and M. Chahine. 2022. Risk Management Associated with Use of Automatic Milking and Feeding Systems (Robots) for Western Dairies. NIFA-USDA Western Extension Risk Management Education Center. \$55,000.
 Rezamand, P., M. Chahine, L. Higgins, D. Konetchy, C. Dearien, C. McIntosh, D. Habib, and R. Collier. 2021. Improving Idaho's Long-Distance Educational and Telemedicine Capabilities. USDA-DLT Grant. \$404,596.
 Chahine, M. and M. E. de Haro-Martí. 2021. Evaluating the Neatmeter on an Idaho Dairy Farm. RAKR. \$10,289.47.
 Amende, J., M. Chahine, M. E. de Haro Martí, S. G. Lee, J. Kim, M. Morrisroe-Aman and J. Peutz. 2021. Extension Collaborative on Immunization Teaching & Engagement Activity II. Center for Disease Control and Prevention. \$199,898.
 Amende, J., M. Chahine, M. E. de Haro Martí, S. G. Lee, J. Kim, M. Morrisroe-Aman and J. Peutz. 2021. Extension Collaborative on Immunization Teaching & Engagement Activity I. Center for Disease Control and Prevention. \$ 24,174.
 Chibisa, G., M. Chahine, D. Konetchy, G. Murdoch. 2021. Determining the ideal age of transportation to enhance the well-being, health, and productivity of dairy calves. USDA-AFRI Foundational and Applied Science. \$300,000.
 McGuire, M. A., Chahine, M., Strickland, M. S. Strawn, D. G., Brooks, E. S., Shewmaker, G., and 23 more collaborators. 2020. Creating a new bioeconomy for dairies to increase nutrient recycling, enhance productivity of crops, and stimulate prosperity in rural America. \$9,999,927.
 Tejada, H. and M. Chahine. 2020. Risk Management hands-on education of federal insurance

- programs and business tools for dairies in the western region. NIFA-USDA Western Extension Risk Management Education Center. \$55,000.
- Williams, S. K., Jensen and M. Chahine. 2019. Idaho Beef Quality Assurance Program. Idaho Beef Council. \$15,025.
- Tejeda, H., G. Ferreira, M. Chahine, and M. E. de Haro Martí. 2019. 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.
- 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.
- Williams, S. K., Jensen and M. Chahine. 2018. Idaho Beef Quality Assurance Program. Idaho Beef Council. \$17,905.
- Chahine, M. 2018. UI Extension Internship Funding, \$5,000.
- Tejeda, H., M. Chahine and G. Ferreira. 2017. Risk assessment and management for dairy farmers in the Western Region. USDA Western Extension Risk Management Education. \$39,572.82.
- Williams, S. K., Jensen and M. Chahine. 2017. Idaho Beef Quality Assurance Program. Idaho Beef Council. \$17,905.
- Norell, R. J., M. Chahine and A. Ahmadzadeh. 2017. Measuring electrical resistance of dairy cattle. Idaho Dairymen's Association. \$17,786.
- Chahine, M., P. Rezamand, and M. A. McGuire. 2016. Effect of feeding betaine on total tract digestibility, rumen degradation, and microbiome of dairy cows. The Amalgamated Sugar Company. \$49,579.
- Chahine, M. 2016. Idaho Dairy Extension Programs. United Dairymen of Idaho pre-harvest grants. \$4000.
- Williams, S., S. Jensen, and M. Chahine. 2016. Idaho Beef Quality Assurance Program. Idaho Beef Council. \$16,425.
- Chahine, M. 2015. Idaho Dairy Extension Programs. United Dairymen of Idaho pre-harvest grants. \$5000.
- Williams, S., S. Jensen, and M. Chahine. 2015. Idaho Beef Quality Assurance Program. Idaho Beef Council. \$17,500.
- 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.
- Whitehurst, W., S. Williams, S. Jensen, and M. Chahine. 2014. Idaho Beef Quality Assurance Program. Idaho Beef Council. \$16,437.
- 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-Martí, 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-Martí, 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.
- Chahine, M., J. C. Dalton, M. E. de Haro-Martí, 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).
- 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.
- 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. 2010. Idaho Dairy Extension Programs. United Dairymen of Idaho pre-harvest grants. \$7,500.
- Moore, A., B. Brown, M. Chahine, R. Norell, M.E. de Haro-Martí, C. Falen, T. Fife, and S. Hines. 2010. University of Idaho Critical Issues Grant. "Nutrient accumulation of manured soils in Southern Idaho". \$3,000.
- Dalton, J. C., R. J. Norell, and M. Chahine. 2009. Idaho Dairy Extension Programs. United Dairymen of Idaho pre-harvest grants. \$10,000.
- 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-Martí. 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-Martí. 2007. Survey of Hispanic employees working on Idaho dairies. Critical Issues Grants. \$ 3,000.
- Hines, S., B. Brown, M. Chahine, M. de Haro-Martí, 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 DAIREXNET: 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:

- Chahine, M., G. Ferreira, S. Hines, L. Schott, M.E. de Haro Martí, and P. Hatzenbuehler. 2024. Producer driven research to determine best practices for managing uncertain water supply in corn silage production in the Semi-Arid West. USDA-WSARE. \$350,000.
- Adjesiwor A.T., C.W. Beiermann, D. Min, R. Jabbour, M. Chahine, N. L. Lawrence, A. R. Kniss, E. Westra, S. Lancaster, and P. Hatzenbuehler. 2024. Understanding the impact of weed diversity and biomass on alfalfa forage yield, forage nutritive value, animal performance, and production economics. USDA-NIFA-Alfalfa Seed and Alfalfa Forage Systems. \$900,000.

Non-Funded:

- Chahine, M., G. Ferreira, S. Hines, H. Tejada, L. Schott, M.E. de Haro Martí, H. Neibling, Managing uncertain water supply to ensure economic and environmental sustainability of corn silage production in the Western Region. USDA-WSARE. \$350,000.

- Rezamand, P., A. Skibieli, D. Konetchy, M. Chahine, and M.E. de Haro Martí. 2021. The effects of air toxins from wildfire smoke on dairy health and performance in the Pacific Northwest. USDA-WSARE. \$350,000.
- Uddin, M.M., A.H.N.A. Khan, H. Tejada, M. Chahine, M.E. de Haro Martí, and A.B.M. Khaleduzzaman. 2021. Optimizing and benchmarking small dairy performance in Bangladesh. Bill & Melinda Gates Foundation. \$250,000.
- Chahine, M., H. Tejada, M. Uddin, M. E. de Haro-Marti, and R. Haggerty. 2021. Sustainable livestock production and processing for increasing the availability and affordability of safe and diversified livestock products and improving household nutrition in Bangladesh. USAID Grant. \$19,000,000.
- McIntosh, C., M. Chahine, P. Hattenbuehler, H. Tejada. 2021. Modernizing Intermountain and Pacific Northwest Dairy Businesses. USDA Dairy Business Innovation Initiatives. \$1.8 million.
- del Rio S., N.F. Ferreira, M. Chahine, M. Rovai, M.E. de Haro Martí, J. Dalton, and Wenz, J. 2020. Mitigation of COVID-19 threats to US agriculture: a multi-level, bi-lingual and culturally sensitive extension and outreach approach using dairy farms as a model. USDA-AFRI Foundational and Applied Science Program. \$997,901.
- Chahine, M. J. Wilson, M. E. de Haro-Marti, and R. Norell. 2020. The effect of feeding clinoptilolite zeolite on manure nitrogen speciation and health and growth of pre-weaned and post-weaned dairy calves. Western USDA-SARE. \$24,995.
- Chibisa, G., M. Chahine, D. Konetchy, G. Murdoch. 2020. Determining the ideal age of transportation to enhance the well-being, health, and productivity of dairy calves. USDA-AFRI Foundational and Applied Science. \$199,154.
- Du, X., M. Chahine, M. de Haro-Marti, R. Norell, H. Tejada, A. Westerhold. 2019. Sustainable agriculture in the age of automation and digitization: improving risk management strategies for small-mid-sized robotic dairy farms in Idaho. USDA Western SARE. \$349,997.
- Rezamand, P., M. Chahine, M. E. de Haro-Marti, A. Laarman. Improving dietary recommendations to reduce P excretion in dairy cattle. USDA Western SARE. \$349,976.
- Bangoura, B., M. Chahine, N. Silva-Del-Rio, M. D., Ehmke, C. S. McConnel, B. Hoar. Cattle coccidia in the Western US – Prevalence, economic importance, and efficacy of anticoccidial drug treatment. . USDA Western SARE. \$349,990 (subcontract for \$27,909).
- McGuire, M. A., Chahine, M., Strickland, M. S. Strawn, D. G., Brooks, E. S., Shewmaker, G., Rezamand, P. and 23 more collaborators. 2018. Creating a new industry for dairies in the arid American West to replace commercial fertilizer, enhance productivity of crops and cows, and create new job opportunities. USDA-NIFA Sustainable Agricultural Systems program. \$9,998,480. (Spending authority \$1,640,123).
- de Haro-Martí, M.E., L. Schott, H. Tejada, A. Westerhold, and M. Chahine. 2019. Improvement of dairy manure and compost production management to optimize the use and export of nutrients, generate new income for producers, and offer higher quality soil nutrients for crop farmers. USDA-WSARE Research & Education Grants pre-proposal. \$350,000.
- Laarman, A., 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.
- Ward, S., M. Chahine, R. Cockrum, T. Smith, P. Kononoff, V. E. Cabrera, K. Daniels, G. J. Lascano, and B. Heins, 2015. National Institute of Food and Agriculture, Agriculture and Food Research Initiative. Amount: \$4,000,000. (\$440,031 Idaho portion).
- Rezamand, P., R. Norell, M. Chahine, M. E. de Haro-Marti, and L. Chen. 2015. Effect of feeding zeolite on odor control and gas emissions of dairy manure. ifeeder. \$98,560.
- Hall, J., B. Glaze, and M. Chahine. 2013. Idaho Beef Quality Assurance. Idaho Beef Council. \$46,162.
- Norell, R., M. Chahine, and S. K. Metlen. 2012. Development and Implementation of an Udder Health Assurance Program to reduce mastitis on western U. S. Dairies. Subaward from WSU from a NIFA-AFRI grant. \$205,910 (Idaho's portion).
- 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. 2010. Dairy video clips: an educational tool for dairy producers and employees. Idaho Dairymen's Association pre-harvest grants. \$24,000.
- Chahine, M., P. Rezamand, R. Norell, M. E. de Haro-Marti, and L. Chen. 2010. Effect of feeding zeolite on odor control and gas emissions of dairy manure. United Dairymen of Idaho Environmental Grants. \$77,500.
- Chen, L., M. Chahine, and M. E. de Haro-Marti. 2010. Treatment of Dairy Manure with Anaerobic Digestion. United Dairymen of Idaho Environmental Grants. \$213,008.
- 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 Har- 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 DAIREXNET: 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
 NC-2042 multi-state research project
 NC 2042 multi-state research project, chair, 2019-2020.
 NC 2042 multi-state research project, secretary, 2018-2019.
 DAIReXNET Management Team Member and Domain Leader, 2006-2019.
 DAIReXNET webinars committee, 2010-2019.
 American Dairy Science Association National Extension Committee, 2008-2013, chair 2011-2013.
 American Dairy Science Association Award Selection Committee for the West Agro, Inc. 2012-2014.
 American Dairy Science Association Award Selection Committee for the DeLaval Dairy Extension Award, 2008-2011.
 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, 2010-2018.
 Innovation Center for US Dairy-Energy Saving Idaho Steering Committee, 2011-2019.
 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 Hearing Board, 2020-2024.
 University of Idaho Faculty Grievance Committee, 2004-2009.

University of Idaho – College

ISAID (SAS) grant Extension committee (chair, 2020-present)
 ISAID (SAS) grant Teaching committee (2020-present)
 CAFE design committee (2020-present)
 CAFE advisory committee (2020-present)
 Faculty mentoring committee, Soil and Water Systems (2020-present)
 Faculty P & T committee, Agricultural Economics and Rural Sociology. 2021, 2022.
 Faculty P & T committee, Family and Consumer Sciences. 2021, 2022.
 Chobani Scholarship Committee (2018-2022)
 University of Idaho CALS Food Production Systems Leader (more than 80 UI faculty) (2018-2023).
 Extension Economist mentoring committee, Agricultural Economics and Rural Sociology. 2018.
 Faculty third year review committee, Agricultural Economics and Rural Sociology. 2018.
 Faculty P & T committee, Agricultural Economics and Rural Sociology. 2018.
 Human Nutrition and Health Specialist hiring committee, Margaret Ritchie School of Family and Consumer Sciences. 2018-2019.
 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, Veterinary and Food Sciences Department (not an all-inclusive list):

Search committee, Aquaculture Extension Specialist, 2021
 Search Committee, AVS Department head, 2017 and 2018 – 2019 (2017 was a failed search).
 Promotion Committee (chair), AVS faculty, 2018
 Mentoring Committee (chair), AVS faculty (2018-2020)
 Third Year Review Committee (chair), AVS faculty (2018-2020).
 Promotion/Tenure Committee (chair), AVS faculty, 2013
 Third Year Review Committee (chair), AVS faculty, 2009
 Third Year Review Committee, AVS faculty, 2006
 Promotion/Tenure Committee, AVS faculty, 2005
 Safety committee, 2005
 Promotion/Tenure Committee, AVS faculty, 2004
 Search Committee, Beef Cattle Extension Specialist, 2004

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

Ferreira, G. 2018. Financial and enterprise management on dairies and agricultural operations to ensure the company sustainability. Middle Herd Managers' Workshop. Twin Falls, Idaho, March 8, 2018.
 Chahine, M., L. Martin, G. Ferreira, S. Hines, G. Shewmaker, M. E. de Haro-Marti and H. Neibling. 2018. Corn growth, drought, and silage management field day, Kimberly, September 13, 2018:
 Harvesting Practices for Maximum Corn Silage Quality
 Effects of Drought Stress on Corn Digestibility in Dairy Cattle
 Water Conservation and Irrigation Practices
 Villamediana, P. 2018. Embryo Transfer Versus In Vitro Embryo Production: Options for the Improvement of Dairy Cattle. Middle Herd Managers' Workshop. Twin Falls, Idaho, November 20, 2018.
 Small ruminant workshop. Gooding, Idaho. July 25, 2017 (co-organized with M.E. de Haro-Marti).
 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 and M. Chahine. February 16.

 Hispanic worker's protection and safety program (Spanish). Jerome, Idaho. March 8, 2016 (co-organized with M.E. de Haro-Marti, S. Hines, T. McCammon, C. Moreno, and L. Arias).
 Small ruminant workshop. Gooding, Idaho. July 15, 2016 (co-organized with M.E. de Haro-Marti).
 Veterinary and Veterinary Technicians continuing education seminar. Sponsored by the Idaho Beef Council, M. Chahine and J. Dalton presenters. Twin Falls, Idaho, February 29, 2016.
 Idaho Nutrient Management Conference. Jerome, Idaho, March 10, 2016 (co-organized with M.E. de Haro-Marti (chair), A. Moore, R. Norell, H. Neibling).
 Veterinary and Veterinary Technicians continuing education seminar. Sponsored by the Idaho Beef Council, R. Norell and B. Barton presenters. Twin Falls, Idaho, December 8, 2016.
 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

Improving Fertility of Dairy Cattle Using Translational Genomics. Spencer, Neiberger, Dalton, Chahine, Moore, Hansen, Cole and de Vries. July 18, 2016 (ppt also available at <http://www.slideshare.net/DAIREXNET/an-overview-of-genomic-selection-and-fertility>)
 Avoiding Disease in Dairy Calves. Dr. Geof Smith, North Carolina State University. April 5, 2016.
 The Role of Nutrition in Reproduction. Dr. Milo Wiltbank. University of Wisconsin. March 2, 2016.
 Sire Selection Considerations for Dairy Producers. Dr. Chad Dechow. Penn State University. February 1, 2016.
 Hyperketonemia Treatment at the Individual Cow and Herd Level. Dr. Jessica McArt. Cornell University. January 19, 2016.
 Diagnosing and Monitoring Ketosis in Dairy Herds. Dr. Gary Oetzel. University of Wisconsin. January 5, 2016.

Dairy Videos organized through DAIREXNET (<http://articles.extension.org/pages/15830/dairy-video-archive>)

Standard Operating Procedures for Non-Ambulatory Cattle. 2016. Dr. Jan Shearer, Iowa State University.
 Optimizing Production by Managing How Dairy Cows Eat. 2016. Dr. Trevor DeVries, University of Guelph.
 Diagnosis and Treatment of Metritis in Dairy Cows. 2016. Dr. Stephen LeBlanc, University of Guelph.
 Defining a Compensation Structure for the Dairy Workforce. 2016. Felix Soriano, APN Consulting.

Honors and Awards

Luckey, B. P., Wittman, G., Shaklee H., Nauman, A., Traver S., Tiff, 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

Dairy Revenue Protection. 2021. Webinars on dairy risk management (M. Chahine, moderator). 2021. <https://www.uidaho.edu/cals/idaho-agbiz/resources/risk-management>

Livestock Gross Margin Insurance. 2021. Webinars on dairy risk management (M. Chahine, moderator). 2021. <https://www.uidaho.edu/cals/idaho-agbiz/resources/risk-management>

Dairy Margin Coverage. 2021. Webinars on dairy risk management (M. Chahine, moderator). 2021. <https://www.uidaho.edu/cals/idaho-agbiz/resources/risk-management>

Whole Farm Revenue Protection. 2021. Webinars on dairy risk management (M. Chahine, moderator). 2021. <https://www.uidaho.edu/cals/idaho-agbiz/resources/risk-management>

Automated calf feeders on US farms: How do they work? Dr. Marcia Endres, University of Minnesota (M. Chahine moderator). May 19, 2015.

Meeting heifer nutrition goals, Dr. Bob James, Virginia Tech. April 21, 2015.

Proper dry-off procedures to prevent new infections and cure existing cases of mastitis, Dr. Stephen Nickerson, University of Georgia. March 24, 2015.

Formulating diets for groups of lactating cows, Dr. Bill Weiss, The Ohio State University. February 26, 2015.

Troubleshooting design-based cow comfort issues. Dan McFarland, Pennsylvania State University (M. Chahine moderator). January 15, 2015.

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. Dr. Limin Kung, University of Delaware. February 17, 2014.

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

Critical economic decisions when raising heifers. Jason Karszes, Cornell University. December 16, 2013.

Discovering hidden feed costs for the milking herd. Dr. Michael Brouk, Kansas State University. November

- 7, 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 17, 2013.
- Economic benchmarks for dairies: Eight rules you cannot break. Gary Sipiorski, Vita Plus. October 7, 2013.
- New tools for dairy reproduction programs. Dr. Paul Fricke, University of Wisconsin. April 22, 2013.
- Economic analysis tools for dairy reproduction programs. Drs. Victor Cabrera and Paul Fricke, University of Wisconsin. April 8, 2013.
- Far off to fresh Cow – Opportunities to improve transition performance. Dr. Mike Overton, Elanco. March 18, 2013.
- Outcome driven health management. Dr. John R. Wenz, Washington State University. March 4, 2013.
- Better milk quality from better mastitis therapy decisions. Dr. Ron Erskine, Michigan State University. February 12, 2013.
- Potential and pitfalls for genomic selection. Dr. Chad Dechow, Pennsylvania State University. January 14, 2013
- Feeding systems for group-housed dairy calves. Dr. Mark Thomas, Countryside Veterinary Clinic. December 7, 2012.
- Diagnosing problems in nutrition programs through records. Dr. Greg Bethard, North Carolina State University. November 19, 2012.
- Can I really prevent my cows from becoming lame? Dr. Ernest Hovingh, Pennsylvania State University. October 8, 2012.
- Cooling strategies during heat stress. Dr. Pete Hansen, University of Florida. April 23, 2012.
- Economics of heat stress: Implications for management. Dr. Albert DeVries, University of Florida. April 9, 2012.
- Nutrition programs for the heat stressed herd. Dr. Jose Santos, University of Florida. March 19, 2012.
- Strategies to improve reproduction during summer heat stress. Dr. Todd Bilby, Texas A&M. March 5, 2012.
- Animal welfare certification options. Dr. Jim Reynolds, Western University. February 8, 2012.
- Lameness, hoof, and leg issues in Dairy Cattle. Dr. Ernest Hovingh, Pennsylvania State University. January 12, 2012.
- Managing TMR variability. Dr. Tom Oelberg, Diamond V (moderator M. Chahine). December 5, 2011.
- Human resource management: Being a boss or building relationships. Dr. Bob Milligan, Cornell University. October 20, 2011.
- Handling high commodity prices. Dr. Normand St-Pierre, The Ohio State University. September 14, 2011.
- Air quality. Dr. Frank Mitloehner, University of California-Davis. April 4, 2011.
- Environmental nitrogen issues. Dr. Mike Van Amburgh. Cornell University. March 1, 2011.
- Environmental phosphorus issues. Katharine Knowlton, Virginia Tech. February 7, 2011.
- Optimizing facilities for transition cow success. Dr. Ken Nordlund, University of Wisconsin. December, 2010.
- Managing somatic cell counts. Drs Ron Erskine, Jeff Reneau, and Larry Fox. November 11, 2010.
- Public perception of dairy farms. Faith Cullens, Michigan State University, Darren Mann, Idaho Dairy Producer, and Andy Kleinschmidt, Extension Educator, the Ohio State University. October 12, 2010.

Reviewer:

Journal of Dairy Science, Journal of Extension, DAIRExNET, Animal Feed Science and Technology, Livestock Science, Animals, Ruminants.