

Producing Quality Forages in the West Western Alfalfa & Forage Symposium & Alfalfa Hay Quality Workshop

**November 28-November 30, 2017
Grand Sierra Resort, Reno, NV**

Organized by:

The Cooperative Extension Services of Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming, and grower and industry liaison members.

Hosted by:

**The California Alfalfa & Forage Association
...representing thousands of California forage growers**

**For Symposium information, registration, sponsorship and exhibitor opportunities,
please visit our website: www.calhay.org/symposium/**

SCHEDULE OF EVENTS

DAY ONE – Tuesday, November 28th

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| 6:30am-7:00pm | SYMPOSIUM AND EXHIBITOR REGISTRATION |
| 8:00am -4:00pm | EXHIBITOR SETUP |
| 8:00am-5:00pm | ALFALFA HAY QUALITY WORKSHOP (<i>Workshop Chairs Shannon Mueller, University of California Cooperative Extension, Fresno, CA and Glenn Shewmaker, University of Idaho, Kimberly, ID</i>) |

This is a hands-on workshop combining lectures and demonstrations of hay quality. In this workshop, participants will answer many of the following questions:

- What is hay quality?
- How much variation is there in fields and hay lots?
- What are the agronomic influences on hay quality (variety, water, etc.)?
- How do cutting schedules influence quality?
- How do harvesting techniques influence quality?
- How do nutritionists value quality?
- What are the economics of hay quality for growers or nutritionists?
- What are the recommended sampling procedures for obtaining a good sample?
- What is the influence of dry matter on quality?
- How to visually evaluate of hay quality?
- How to choose a high quality lab?
- How do I interpret hay quality results?
- What are the new and emerging measurements for hay quality?

Come join for a day's training on forage quality. There is a limit to participation in this workshop, so register early (separate registration).

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| 5:30pm-7:30pm | SYMPOSIUM WELCOME RECEPTION WITH EXHIBITORS
Cocktails and Hors D'oeuvres. Exhibits Open. |
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DAY TWO -- Wednesday, November 29th

6:30am-7:00pm SYMPOSIUM REGISTRATION

7:00am-8:00am CONTINENTAL BREAKFAST

7:00am-7:00pm EXHIBITS OPEN

8:00am-Noon SYMPOSIUM MAIN SESSION

- 8:00 Welcome & Introduction
William Payne, Dean, College of Agriculture, University of Nevada, Reno

Economics and Markets

(Moderator Brandon Fawaz, Fawaz Farms, Etna, CA)

- 8:10 Current Trends in the Hay and Forage Markets
Seth Hoyt, the Hoyt Report
- 8:35 Important Market Trends with California and US Dairy Markets
Tiffany LaMendola, Blimling Associates, Jamestown, CA
- 9:00 Demographics and Long Term Outlook for Western Beef, Sheep, and Horses and their Importance for the Forage Industry
Tim DelCurto, Montana State University, Bozeman, MT
- 9:25 The Emerging Farm Bill and its Implications for Western Dairy and Forage
Dan Sumner, Ag. Issues Center, University of California, Davis, CA
- 9:50 Discussion
- 10:00 Break

Alfalfa Yield and Quality, Yield Gap, and Genetic Innovations

(Moderator Mark Marsalis, New Mexico State University, Los Lunas, NM)

- 10:30 Genetics for Drought Tolerance in Alfalfa
Ian Ray, NM State Univ., Las Cruces, NM
- 10:55 Alfalfa Yield Gap – How big is it and what is its economic significance?
Michael Russelle, University of Minnesota, St. Paul, MN
- 11:20 Alfalfa Yield Gap - What is holding us back?
Charlie Brummer, University of California, Davis, CA
- 11:45 Discussion

12:00Noon SYMPOSIUM LUNCH

- Jim Kuhn Award
- The Importance of Alfalfa Research Funding
Beth Nelson, National Alfalfa & Forage Alliance, St. Paul, MN

1:30pm-5:00pm SYMPOSIUM MAIN SESSION

Alfalfa Production and Pest Management I

(Moderator Anowar Islam, University of Wyoming, Laramie, WY)

- 1:30 Fertilizing Alfalfa for High Yields
Nick Clark, University of California Cooperative Extension, Hanford, CA
- 1:50 Strategies for Aphid Management in Alfalfa
Ayman Mostafa, Univ. of Arizona Cooperative Extension, Phoenix, AZ

- 2:10 Controlling Alfalfa Weevils—Efficacy, Thresholds and Future Needs
Steve Orloff, University of California Cooperative Extension, Yreka, CA
- 2:30 Using Zinc Phosphide-Coated Cabbage to Manage Belding's Ground Squirrels in Hay Crops
Roger Baldwin, University of California, Davis, CA
- 2:50 Discussion
- 3:00 Break

Alfalfa Production and Pest Management II

(Moderator Rachael Long, University of California Cooperative Extension, Woodland, CA)

- 3:30 Poisonous Weeds And Toxic Factors In Hay Crops: Why You Should Worry
Birgit Puschner University of California, Davis, CA
- 3:50 An IPM Approach To Managing Annual Grasses In Grass Hay And Pasture
Tim Prather, University of Idaho, Moscow, ID
- 4:10 New Herbicides for Winter Annual Weed Control in Alfalfa
Earl Creech, Utah State University, Logan, UT
- 4:30 Panel Discussion: Solving Difficult Weed Problems
Moderated by Tim Hays, Moderator, Lancaster, CA

5:30pm-7:00pm EXHIBITOR RECEPTION AND CAFA AUCTION

DAY THREE -- Thursday, November 30th

8:00am-12:30pm SYMPOSIUM MAIN SESSION

Exports, Quality, & Irrigation

(Moderated by Steve Norberg, Washington State University, Pasco, WA)

- 7:50 Welcome and Announcements
- 8:05 Reduced Lignin in Alfalfa Varieties – Why it's Important
Mark Sulc, The Ohio State University, Columbus, OH
- 8:30 Hay Export Dynamics in the West Coast USA
Bill Matthews, Ag Issues Center, University of California, Davis, CA
- 8:55 Emergence of Middle Eastern Demand for Forage Crops
Allan Hallman, USDA - Foreign Agricultural Service, Riyadh, Saudi Arabia
- 9:20 Benefits and Impacts of Partial Season Irrigation on Alfalfa Production
Perry Cabot, Joe Brummer, Colorado State University, Fort Collins, CO and Neil Hansen, Brigham Young University, Provo, UT
- 9:45 Discussion
- 10:00 Break
- 10:30 Deficit Irrigation with Alfalfa: What Are the Economics?
Mike Ottman, University of Arizona, Tucson, AZ & Dan Putnam, University of California, Davis, CA
- 10:55 Principles of Drip Irrigation with Alfalfa
Dan Putnam, University of California, Davis, CA
- 11:15 What I've Learned from Implementing Drip Irrigation on my Farm
Nate Ray, DeJager Farms, Chowchilla, CA

- 11:35 Innovations in Center Pivot Irrigation with Hay Crops
Troy Peters, Washington State University, Prosser, WA
- 11:55 Implementing Advances in Pivot Irrigation on my Farm
Drex Gauntt, Gauntt Farms, Kennewick, WA
- 12:15 Discussion
- 12:30 Adjourn