



**Western SARE Professional Development Program Workshop
Holiday Inn, 1100 5th Street S, Great Falls, MT
March 7-8, 2019**

Pheromones as Tools for Monitoring Crop Insect Pests in the Northern Plains - Instructive Tools for Agricultural Professionals

Aim/Goals: The purpose of this project/workshop is to build agricultural professional's understanding of pheromone-based monitoring techniques in order to incorporate them into current integrated pest management programs.

Thursday March 7, 2019

10:00AM – Registration

10:15AM – Welcome/Announcements: Dr. Gadi V.P. Reddy, Professor of Entomology/Ecology, Montana State University-Western Triangle Agricultural Research Center, Conrad, MT

10:20AM – 11:00PM: Western SARE programs and conservation of pollinators in Montana: Dr. Fabián Menalled, WSARE Regional Coordinator, MSU-Bozeman, MT

11:00PM – 12:00PM: Trapping wheat stem sawflies in western cropping systems using a pheromone lure: Dr. David K. Weaver, MSU-LRES, Bozeman, MT

12:00PM – 1:00PM: Lunch Provided

01:00PM – 02:00PM: Recent research on semiochemical-based monitoring of insect pests on the Canadian Prairies: pea leaf weevil, bertha armyworm and cutworms, and wheat midge: Dr. Maya Evenden, University of Alberta, Edmonton, CANADA

2:00PM – 3:00PM: Monitoring methods for the insect pests of quinoa: Dr. Boyd A. Mori, Agriculture and Agri-Food Canada, Saskatoon, CANADA

3:00PM – 3:30PM: Coffee Break and Refreshments

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3:30PM – 4:30PM: **Pheromone traps for monitoring economic insect pests of field crops in North Dakota:** Dr. Janet Knodel, North Dakota State University, Fargo, ND

4:30PM – 5:30PM: **Using Pheromones to monitoring insects in canola: Current success and future needs:** Dr. John Gavloski, Manitoba Agriculture, Carman, CANADA

6:00 –7:00PM: Dinner Provided

Friday March 8, 2019

7:00AM – 8:00AM: Breakfast Provided

8:00AM – 9:00AM: **Monitoring and management of click beetles and wireworms in field crops:** Dr. Christine Noronha, Agriculture and Agri-Food Canada, Charlottetown, Prince Edward Island, CANADA

9:00AM – 10:00AM: **Pheromones: theory, types and applications:** Dr. Gadi V.P. Reddy and Dr. Anamika Sharma, MSU-WTARC, Conrad, MT

10:00AM – 11:00AM: **Monitoring tools and techniques for insect pests in Northern Plains:** Dr. Michael A. Ivie, MSU-Plant Science and Plant Pathology, Bozeman, MT

11:00AM – 12:00noon: **Research and extension work to update alfalfa weevil monitoring and management in the western region: should pheromones be considered?** Dr. Kevin Wanner, MSU-LRES, Bozeman, MT

12:15PM – 1:15PM: Lunch Provided

1:15PM – 2:00PM: Wrap up and Evaluation

Adjourned

MDA CE credits approved-day one-6 credits and day two-4 credits in categories 30, 10 and 39.

Dr. Gadi V.P. Reddy, Principal Investigator, **Dr. Anamika Sharma**, Co-Principal Investigator, Western SARE-PDP, Montana State University, Western Triangle Ag Research Center, 9546 Old Shelby Rd., P. O. Box 656, Conrad, MT 59425, USA

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<http://agresearch.montana.edu/wtarc/fielddays-pdf/2019WesternSAREPDP.pdf>

Registration Form Western SARE Workshop

We thank you for your interest in participating in our Western SARE Workshop “**Pheromones as Tools for Monitoring the Insect Pests in the Northern Plains**”. Please fill in our Workshop Registration Form below to receive your name tag and the schedule of the entire event. We would like your pre-registration by Friday, March 1st, to help in planning for meals and handouts.

Attendee's Name

Will appear on Name Tag

Company/ Organization

Will appear on Name Tag

Phone

Email:

Mailing Address

Street Address

Street Address Line 2

City

Region

Zip Code

Workshop Participation

Attending:

First day Sessions Second day Sessions All sessions Dinner Banquet

Do you require accommodations? (Rooms are blocked at Holiday Inn, Great Falls

Yes No

406-727-7200 Meeting Code: WTA)

March 6th, March 7th, March 8th (Please circle dates needed)

Please send the registration form to Julie Orcutt, WTARC, Admin. Associate at julie.orcutt1@montana.edu

Phone: (406) 278-7707

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