

# BIOLOGICAL CONTROL W-4185 ANNUAL MEETING OCTOBER 10-12, 2018

GROUSE MOUNTAIN LODGE, WHITEFISH, MONTANA  
2 FAIRWAY DRIVE, WHITEFISH, MT 59937

## October 10, 2018

Registration 5–7 p.m.

Registration Fee \$150.00

Cash and Checks Accepted

No Host Cocktails 5–7 p.m.

Dinner: Individual Arrangements

Food Available on Site

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*Montana was designated  
as a territory on May 26,  
1864 and entered into  
statehood on November 8,  
1889 as the 41st state in  
the union.*

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FOR QUESTIONS AND INFORMATION

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**Welcome to Big Sky Country! Also known as “The Last Best Place!”**

# October 11, 2018

Bitterroot—The Montana State Flower



**7:00-8:00 Breakfast provided in the East Divide room**

08:00AM Gadi V.P. Reddy—Welcome/Announcements

08:20AM W-4185 Update from Laura C. Lavine, Administrative Advisor

08:40AM Robert M. Nowierski—USDA-NIFA: The Status of Classical Biological Control of Weeds: We Made It Through The Rain!

09:00AM Robert S. Pfannenstiel—USDA-APHIS PPQ: Environmental Compliance for New Biological Control Agents: Historical Perspectives and Current Status

09:20AM Lincoln Smith—USDA-EBCL: Biological Control of Invasive Arthropods and Plants

09:40AM Francesca Marini —BBCA, Italy: An Overview of Research Activities at BBCA

**10:00-10:30 Morning break provided**

10:30AM Hariet L. Hinz—CABI Bioscience Switzerland: Update on activities at CABI Switzerland

11:00AM Norman C Leppla—University of Florida: *Epehstia kuehniella* Larval Diets Affect the Quality of Host Eggs and *Trichogramma brassicae*

11:20AM Mark S. Hoddle—University of California, Riverside: Leaning In: The Case for Proactive Bio-control

11:40AM Houston Wilson—University of California, Riverside: Biological Control of Vineyard Leafhoppers in California

**12:00—1:00 Lunch provided in the East Divide room**

01:00PM Mark G. Wright—University of Hawaii: Response of *Trichogramma papilionis* to Plant Volatiles Associated with Lepidoptera Oviposition

01:15PM Ross H. Miller—University of Guam: Guam Update

01:25PM Adler R. Dillman—University of California, Riverside: Entomopathogenic Nematodes in Biological Control

01:40PM Arash Rashed—University of Idaho: Biological Control: An Alternative Approach to Manage the Subterranean Wireworms

01:55PM Atoosa Nikoukar—University of Idaho: Efficacy Evaluations of Commercial and Field-collected Entomopathogenic Nematodes against Wireworms (Coleoptera:Elateridae)

02:05PM Ramandeep Kaur Sandhi—Montana State University: Exploring the Possibilities of Using Entomopathogenic Nematodes for Wireworms Management

**Glacier National Park was established by President Taft in 1910**

02:15PM Govinda Shrestha—Montana State University: Biological Control of Wheat Midge and Pea Leaf Weevil

02:25PM Anamika Sharma—Montana State University: Biological Control of Wireworms and Canola Insects

**2:35-3:00 Afternoon break provided, sponsored by MSU**

03:00PM Kent M. Daane—University of California: Does an Exotic Spider Disrupt Biocontrol in Vineyards?

03:25PM David Morgan—California Department of Food & Agriculture: Update on Asian Citrus Psyllid Biological Control Activities in California

03:40PM Silvia Rondon and Pahoua Yang—Oregon State University: Searching Colorado Potato Beetle Natural Enemies

03:55PM John Kaltenbach—Colorado Department of Agriculture: Biological Control of Emerald Ash Borer

04:10PM Massimo Cristofaro—BBCA, Italy: Biological Control of Saltcedar: Back to the future!

04:25PM Paul Pratt—USDA-ARS, Albany: *Aceria genistae* in California: Invasion Patterns, Impacts and Realized Host Range

04:40PM Paul Ode—Colorado State University: Interactions Among Biocontrol Agents: Competitive Displacement and Facilitation

**Cocktails Sponsored by Oro Agri Inc**

5:30-6:00pm

**Dinner provided 6:00pm**

in the East Divide Room

Guest speaker Pat Hagan:

“Grizzly Details” 7:00pm



**Montana has the largest migratory elk herd in the nation**

# October 12, 2018

**7:00-8:20 Breakfast provided in the East Divide room**

08:20AM René Sforza—USDA-ARS, EBCL: Recent Advances on the Biology, Host Testing and Genetics of *Lepidapion argentatum* (Col. Brentidae), a Prospective Biological Control Candidate on French Broom

08:40AM John Gaskin—USDA-ARS, Sydney: Dyer's Woad Genetic Diversity and Origins

09:00AM Sharlene Sing—USFS, Bozeman, MT: Toadflax Biocontrol: Past, Present and Future

09:20AM Zeynep Ozsoy—Colorado Mesa University: Another Tamarisk Specialist: Taxonomy and Biology of *Coniatus* sp. Found in North America

09:40AM Alex Gaffke—Montana State University: Impacts of Pre-release Handling on Pheromone Production in *Diorhabda carinulata*

09:55AM Amanda Stahlke—University of Idaho: Post-release Monitoring of Hybridization and Range Expansion in the Tamarisk Leaf Beetle, *Diorhabda*

**10:10-10:40 Morning break provided—Sponsored by Oro Agri Inc.**

10:40AM Jeff Littlefield—Montana State University: Establishment and Potential Impact of the Rush Skeleton Weed Root Moth in Idaho

11:00AM Neelendra Joshi—University of Arkansas: Biological Control of Arthropod Pests in Tree Fruit Production System

11:20AM Natalie West—USDA-ARS, Sidney, MT: Let's Talk About Old Friends: Leafy Spurge, Hoary Cress, and Russian Olive

11:40AM Dan Bean—Colorado Department of Agriculture: Canada Thistle Biocontrol Using a Rust Fungus, *Puccinia punctiformis*: Developing a State and a Regional Program

12:00PM Business Meeting

**Concluding Remarks, Discussion and Announcements**

**Lunch provided in the East Divide room**

**Thank you to our sponsors:**



**Montana is the nation's 4th largest state at 147,042 square miles.**