

## 37th Annual Meeting, Western Apiculture Society (WAS)

**Wednesday**      17-Sep      3rd Floor, Ballroom Area, University Center, The University of MT

### 2nd International Workshop on Hive and Bee Monitoring The Future....brought to you by WAS, and Bee Culture Magazine

7:30 -8:30	<b>Registration</b> , 3rd Floor Lobby, North End, UC
8:30-8:45	Opening Comments, Jerry Bromenshenk and Frank Linton
8:45-9:15	Monsanto Research and Scale Hives, Jerry Hayes
9:15-9:45	Bayer Crop Science Research and Scale Hives, Dick Rogers
9:45-10:15	<b>Break</b>
10:15-10:45	Wide Scale Scientific Experiments Can be Conducted by Beekeepers, Huw Evans, Arnia
10:45-11:15	Journeyman Hive Monitoring, Robert McCreery, Dromore Beekeepers, N. Ireland
11:15-11:45	NASA Monitoring Project Status, Wayne Esaias, Goddard Space Center, Retired
11:45-1:00	<b>Lunch</b> - Workshop Breaks early to avoid student crush at noon
11:45-1:00	<b>WAS Board Meeting</b> , Rm 205 School of Extended and Lifelong Learning
1:00-1:30	Interpreting Continuous Hive Weight and Temperature, William Meikle, USDA
1:30-1:50	Acoustic Scanning of Colonies to Detect Exposures to Pesticides, Robert Seccomb, Bee Alert
1:50-2:10	LIDAR Mapping of Bee Foraging, Scott Debnam and Colin Henderson, University of Montana
2:10-2:30	RFID Chips for Security; Infra-Red Imaging for Hive Management, Jerry Bromenshenk, Bee Alert
2:30-3:00	<b>Break</b>
3:00-3:30	Partnering with Universities and other Companies, Joe Fanguy, University of MT
3:30-4:30	Looking to the Future, Panel Discussion, David Firth, Univ. MT - Moderator
4:30-5:00	New Zealand's CSD Allele Frequency Use in Queen Breeding David McMillan, Betta Bees, NZ
5:00-5:15	Use of Radar to Locate/Define Drone Congregation Areas (DCAs), Gerald Loper, Tucson, AZ
5:15	<b>Adjourn</b>
7:00-9:00	<b>Dinner for Speakers, Sponsored by Bee Culture Magazine</b> Ekstrom's Stage Station, Clinton, Montana

\*1:00-5:00      *Vendor Set-Up, UC Ballroom*

**Thursday**      18-Sep      3rd Floor, Ballroom Area, University Center, The University of MT

### Western Apiculture Society, Main Program - Day 1

#### The Path of Discovery to the Future

7:30 -8:30	<b>Registration</b> , 3rd Floor Lobby, North End, UC
8:30-8:45	Opening Comments, Jerry Bromenshenk
8:45-9:45	<b>KEYNOTE ADDRESS</b> <i>Changes in Beekeeping Over Three Decades, Eric Mussen, UC Davis</i>
9:45-10:15	<b>Break</b>
10:15-10:45	Educational Outreach for Kids, Sarah Red-Laird, Bee Girl; Elena Hoffman, Honey Princess

10:45-11:15	On-Line Bee Courses, Roger McClean, University of MT SELL
11:15-11:45	Honey Bee Virology and Diseases, Michelle Flenniken, MSU Virologist; Laura Brutscher, MSU, Project Apis m.-Costco Fellow
11:45-1:00	<b>Lunch</b> - Meeting Breaks early to avoid student crush at noon
1:00-1:30	Honey Bee Health in Canada, Medhat Nasr, Alberta Province
1:30-2:00	Bees in N. Ireland, Robert McCreery
2:00-2:30	Bees and Bee Breeding in New Zealand, David McMillan
2:30-3:00	<b>Break</b>
3:00-3:30	Bee Care and Research, Dick Rogers, Bayer Crop Science
3:30-4:00	Bee Health and Treatments, Jerry Hayes, Monsanto
4:00-5:00	Critical Issues For Bees & Beekeeping, Panel Discussion by Kim Flottum & Today's Speakers
5:15	<b>Adjourn</b>
5:15-7:00	<i>Kyra Jean Williams Farm to College Festival, followed by Square Dancing, UM OVAL;</i>
7:00-8:30	<i>WAS Bee Buzz Social, Payne Family Native American Center, SW OVAL - The Power of Native American Music, Kevin Kicking Woman;</i>
8:00-?	<i>Young Beekeepers Social and Dance, Downtown Missoula - Zac Browning/Sarah Red-Laird</i>

**Friday**                      19-Sep                      3rd Floor, Ballroom Area, University Center, The University of MT

## Western Apiculture Society - Main Program, Day 2

### Planning for the Future

7:30 -8:30	<b>Registration</b> , 3rd Floor Lobby, North End, UC
8:30-8:45	Opening Comments, Jerry Bromenshenk
8:45-9:45	<b>KEYNOTE ADDRESS</b> <i>Let Me Tell You "Bout the Birds and the Bees": Neonic Pesticides and the Prospects for Future Life on Planet Earth. G. Philip Hughes, White House Writers Group</i>
9:45-10:15	<b>Break</b>
10:15-10:45	Adapting Bee Management to Climate Change, Steve Running, University of Montana
10:45-11:45	Montana State Arboretum, Ornamental Plantings, and Native Plants; Chris Csorosz and Kelly Chadwick, University of Montana
11:45-1:00	<b>Lunch</b> - Meeting Breaks early to avoid student crush at noon
1:00-1:30	Working Bees, Randy Oliver, Scientific Beekeeping
1:30-2:00	University of Montana Farm to College Program, Mark LoParco, Director, UM Dining Services
2:00-2:30	Glacier County Honey Company Direct Marketing via Social Media, Courtney Fullerton
2:30-3:00	<b>Break</b>
3:00-4:00	Critical Issues for Bees and Beekeepers - Mt Beekeepers Association, Greg Fullerton; American Honey Producers, Randy Verhoek; Gene Brandi, American Beekeeping Federation
4:00-5:00	<b>WAS Annual Meeting</b>
5:00	<b>Adjourn</b>
6:30-7:30	No-Host Bar, Doubletree Edgewater
7:30-9:00	<b>Conference Banquet</b> (Buffet), Doubletree Edgewater - Return of the Giant Honey Bee: Tales from a Mango Orchard, Will Robinson, Casper College, Casper, WY

**Saturday**

**20-Sep**

**3rd Floor, Ballroom Area, University Center, The University of MT**

**Western Apiculture Society Workshops-Morning/Missoula Honey Harvest Festival-Afternoon**

7:30 -11:30	<b>Workshop and Vendor Registration</b> , Outdoor Courtyard Between UC and Mansfield Library
8:00-9:00	Session 1 (All Topics and Locations will be Posted in the Final On-Site Program)
9:00-10:00	Session 2 (All Topics and Locations will be Posted in the Final On-Site Program)
10:00-11:00	Session 3 (All Topics and Locations will be Posted in the Final On-Site Program)
11:00-Noon	Session 4 (All Topics and Locations will be Posted in the Final On-Site Program)
9:00-11:00	<b>Missoula Honey Harvest Festival</b> - Vendor Setup on UM Campus Oval
11:00-6:00	<b>Missoula Honey Harvest Festival</b> - Festival Open to Public

\* Workshops will include, but are not limited to those listed in the Newsletter. Some topics will repeat, others will run consecutively. If registered, you will be free to pick three topics. Some will be indoors, such as Nosema detection by microscopy; some will be outdoors such as hive monitoring demonstrations. A map with the locations by area (e.g., by the river bridge, on the UM Oval, at Health Sciences Lab) will be provided with registration.