2024 SOYBEAN BREEDERS' WORKSHOP ENTOMOLOGY AND BREEDING INNOVATION

February 12-14, 2024

Sheraton Westport Chalet Hotel, 191 Westport Plaza Dr., St. Louis, MO

Registration

Monday, Feb 12	10:30 a.m. – 5:00 p.m.
Tuesday, Feb 13	7:00 a.m. – 5:00 p.m.

Monday, February 12, 2024 | Room: Versailles 1

1:00 pm	Welcome and opening remarks: Brittney Jones, Bayer Crop Science, and Aaron Lorenz, University of Minnesota
1:10 pm	Keynote speech: Michael Smith, University Distinguished Professor

Emeritus, Kansas State University, "A century of insect resistant soybeans: Bussin' or busted?"

SESSION 1: Market needs and research opportunities | Chair: Aaron Lorenz, University of Minnesota

1:40 pm	Tom Slunecka, CEO, AG Management Solutions, "Inspiring innovation: Ag Innovation Campus provides bridge to success"
2:10 pm	Donnell Rehagen, CEO, Clean Fuels Alliance America, "Accelerating to New Heights – The expanding role soybean oil plays in the major growth of clean fuels production"
2:40 pm	Lisa Weaver, Research Director, SmithBucklin, "USB Updates"

SESSION 2: Breeding Innovation | Chair: Aaron Lorenz, University of Minnesota

3:20 pm	Diego Jarquin, Assistant Professor, Univ. of Florida, "Sparse testing designs at the industrial level: An application in soybeans"
3:50 pm	Lucia Gutierez, Associate Professor, Univ. of Wisconsin, "Optimizing resources for genotypic evaluation: Sparse testing for genotype-by-environment interaction modeling"
4:20 pm	Scott Jackson, North America Varietal Breeding Lead, Bayer Crop Science, "Genomics and breeding at scale"
4:50 pm	Housekeeping announcements
5:00-6:30 pm	Graduate Student and Postdoc Professional Development Event

Tuesday, February 13, 2024 | Room: Versailles 1

SESSION 3: Updates in Soybean Entomology | Chair: Robert Koch, Univ. of Minnesota

8:00 am	Robert Koch, Professor, Univ. of Minnesota, Introduction
8:05 am	Justin McMechan, Assistant Professor, Univ. of Nebraska, "Soybean gall midge: Understanding a new and emerging pest of soybean in the Midwest"
8:30 am	Robert Koch, Professor, Univ. of Minnesota, "Biology and management of the soybean tentiform leafminer, a new pest of soybean"
8:55 am	Jeff Davis, Professor, Louisiana State University, "Biology and management of stink bugs in soybean"

9:20 am Silvana Paula-Moraes, Associate Professor, Univ. of Florida, "Biology and management of caterpillar pests of soybean"

9:45 am Coffee Break-Foyer

- **10:10 am** Maria Cramer, Graduate Research Assistant, Univ. of Maryland, "Slugs as pests and prey: Growing practices that impact slugs in soybeans"
- **10:35 am** Raul Villanueva, Assistant Professor, Univ. of Kentucky, "Comprehensive review of the management of *Dectes texanus* in soybeans"
- **11:00 am** Ivair Valmorbida, Assistant Professor, Univ. of Missouri, "Soybean aphid management: Is it becoming more complicated?"
- 11:25 am Lunch, On your own

SESSION 4: Genetics of host plant resistance | Chair: Jaimie O'Rourke, USDA-ARS (Iowa State)

- **1:00 pm** Wayne Parrot, Professor, Univ. of Georgia, "Identifying resistance QTL"
- **1:25 pm** Dave Hyten, Associate Professor, Univ. of Nebraska, "Stemborer resistance"
- **1:50 pm** Jeff Davis, Professor, Louisiana State University, "Host plant resistance to a complex of stink bugs: Protecting yield and quality in southern soybean"
- **2:15 pm** Gustavo MacIntosh, Professor, Iowa State University, "Understanding the molecular mechanisms of plant defense suppression deployed by soybean aphids"
- **2:40 pm** Coffee Break-Foyer

SESSION 5: Breeding for host plant resistance | Chair: Ben Fallen, UDSA-ARS (NC State)

3:05 pm George Graef, Professor, Univ. of Nebraska, "Genetics of soybean host plant reaction to soybean gall midge infestation"

3:30 pm	Zenglu Li, Professor, Univ. of Georgia, "Breeding for insect resistance in soybean"
3:55 pm	Molly Ryan, Title, Corteva, "Corteva insect native traits"
4:20-6:00 pm	Poster Session & Social Hour Foyer & Versailles II

Wednesday, February 14, 2024 | Room: Versailles 1

SESSION 6: Reports and Announcements | Chair: Aaron Lorenz, University of Minnesota

8:00 am	Cleiton Wartha, Corteva, Announcement of poster winners
8:10 am	Jamie O'Rourke, USDA-ARS, Soybean Genomics Executive Committee Report
8:25 am	Elroy Cober, AAFC, Soybean Genetics Committee Report and SoyBase.org update
8:40 am	Ben Fallen, USDA-ARS, Soybean Germplasm Committee Report
8:55 am	From the floor: Recognitions, retirements, and announcements

SESSION 7: Lightning presentations | Chair: Aaron Lorenz, University of Minnesota

- **9:00 am** Volunteered lightning presentations
- ~10:30 am Adjourn

Special Meetings

Monday, February 12, 2024

Date & Time	Meeting	Contact person	Room
8:00 am - 12:00 pm	Genomic prediction of GxE workshop	Aaron Lorenz	St. Moritz- Bern Separate pre- registration required
8:30 am - 10:00 am	Soybean Germplasm Committee Meeting	Ben Fallen	Alpine I
9:00 am - 10:30 am	SoyBase Workshop Meeting	Rex Nelson	Alpine II
10:00 am - 12:00 pm	Soybean Genomics Executive Committee Meeting	Jamie O'Rourke	Alpine I
1:00 pm - 5:00 pm	Technicians' Workshop	Brian Little & Benjamin Bartlett	St. Moritz
7:00 pm - 8:00 pm	Soybean Genetics Committee	Elroy Cober	Alpine II

Tuesday, February 13, 2024

Date & Time	Meeting	Contact person	Room
8:00 am - 12:00 pm	Technicians' Workshop	Brian Little & Benjamin Bartlett	St. Moritz
7:00 pm - 7:30 pm	Uniform Regional Testing North	Adam Brock	Alpine II
7:00 pm - 8:00 pm	Uniform Regional Testing South	Anne Gillen	Alpine I
7:30 pm - 8:00 pm	SCN Regional Testing	Troy Cary / Adam Brock	Alpine II

Wednesday, February 14, 2024

Date & Time	Meeting	Contact person	Room
12:00 pm - 4:00 pm	Missouri Soybean Merchandising Council	Bryan Stobaugh	Alpine I Invite only
12:00 pm – 2:00 pm	Soybean Breeders' Workshop Planning Committee	Brittney Jones	St. Moritz- Bern