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 Gutierrez, 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

7:00 am Breakfast, Foyer

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, USDA-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

7:00 am  Breakfast, Foyer

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

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<tr>
<th>Date &amp; Time</th>
<th>Meeting</th>
<th>Contact person</th>
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<tbody>
<tr>
<td>8:00 am - 12:00 pm</td>
<td>Genomic prediction of GxE workshop</td>
<td>Aaron Lorenz</td>
<td>St. Moritz-Bern</td>
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<td>Separate pre-registration required</td>
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<tr>
<td>8:30 am - 10:00 am</td>
<td>Soybean Germplasm Committee Meeting</td>
<td>Ben Fallen</td>
<td>Alpine I</td>
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<td>9:00 am - 10:30 am</td>
<td>SoyBase Workshop Meeting</td>
<td>Rex Nelson</td>
<td>Alpine II</td>
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<td>Soybean Genomics Executive Committee Meeting</td>
<td>Jamie O'Rourke</td>
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<td>1:00 pm - 5:00 pm</td>
<td>Technicians’ Workshop</td>
<td>Brian Little &amp; Benjamin Bartlett</td>
<td>St. Moritz</td>
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<td>7:00 pm - 8:00 pm</td>
<td>Soybean Genetics Committee</td>
<td>Elroy Cober</td>
<td>Alpine II</td>
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### Tuesday, February 13, 2024

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<td>7:00 pm - 7:30 pm</td>
<td>Uniform Regional Testing North</td>
<td>Adam Brock</td>
<td>Alpine II</td>
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<td>7:00 pm - 8:00 pm</td>
<td>Uniform Regional Testing South</td>
<td>Anne Gillen</td>
<td>Alpine I</td>
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<td>7:30 pm - 8:00 pm</td>
<td>SCN Regional Testing</td>
<td>Troy Cary / Adam Brock</td>
<td>Alpine II</td>
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<tr>
<td>12:00 pm - 4:00 pm</td>
<td>Missouri Soybean Merchandising Council</td>
<td>Bryan Stobaugh</td>
<td>Alpine I</td>
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<tr>
<td>10:30 pm – 12:00 pm</td>
<td>Soybean Breeders’ Workshop Planning Committee</td>
<td>Brittney Jones</td>
<td>St. Moritz- Bern</td>
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