February 22 (Session chairs: Bo Zhang and Raymond Kennett)

9:00-9:10 am. Greeting, acknowledgement and introduction of the topics.

International soybean research (Bo Zhang)

9:10-9:30 am. Lijuan Qiu (Chinese Academy of Agriculture Sciences, China). China’s Soybean Germplasm Perspective of Genome

9:30-9:50 am. Istvan Rajcan and Huilin Hong (University of Guelph, Canada). Genetic Analysis of Soybean [Glycine max (L.) Merr.] Seed Quality Traits for Adaptation to Mega-environments of Canada and Ukraine

9:50-10:10 am. Rodolfo Rossi (University of Buenos Aires, Argentina). General Soybean Breeding Status in Argentina and Our Collaboration

10:10-10:30 am. Q and A

10:30-10:45 am. Break

Voice from Stakeholders (Raymond Kennett)

10:45-11:05 am. Lisa Weaver (USB). USB Updates


11:25-11:45 am. Michael Kidd (University of Arkansas). Linear Programming Overview for Broiler Diets

11:45-12:05 pm. Q and A

Soybean Tutorial (Rex Nelson)

1:00-2:30 pm. Rex Nelson (USDA). Soybase Tutorial

February 23 (Session chair: Aaron Lorenz)

9:00-9:05 am. Introduction of the topics

Aphids (Aaron Lorenz)

9:05-9:25 am. Robert Koch (University of Minnesota). Rethinking Insecticide-based Management for Soybean Aphid

9:25-9:45 am. Andrew Michel (Ohio State University). Molecular and Genetic Interactions Between Soybean Aphids and Aphid-resistant Soybean

9:45-10:05 am. George Heimpel (University of Minnesota). Biological Control of Soybean Aphid

10:05-10:15 am. Break

10:15-10:35 am. Matthew Hudson (University of Illinois). Fine Mapping of and Structural Polymorphism in the Aphid Resistance Genes Rag1 and Rag2

10:35-10:55 am. Gustavo Macintosh (Iowa State University). Soybean Aphids Manipulate the Plant’s Phytohormone Crosstalk to Suppress Soybean Defenses

10:55 –11:15 am. Ashley Dean (Iowa State University). Developing a Decision-making Framework for Pest Management

11:15-12:00 pm. Q and A

12:00 pm. Adjourn

2:00 to 4:00 pm POSTER SESSION
February 22 (Session chairs: Bo Zhang and Raymond Kennett)

Greeting, acknowledgement and introduction of the topics.

International soybean research (Bo Zhang)

Lijuan Qiu (Chinese Academy of Agriculture Sciences, China). China’s Soybean Germplasm Perspective

Istvan Rajcan and Huilin Hong (University of Guelph, Canada). Genetic Analysis of Soybean [Glycine max (L.) Merr.] Seed Quality Traits for Adaptation to Mega-environments of Canada and Ukraine

Rodolfo Rossi (University of Buenos Aires, Argentina). General Soybean Breeding Status in Argentina and Our Collaboration

Q and A

Break

Voice from Stakeholders (Raymond Kennett)

Lisa Weaver (USB). USB Updates

Scott Raubenstine (Perdue Agribusiness). Specialty Crop Seed Traits – The Microchip of the Ag Industry

Michael Kidd (University of Arkansas). Linear Programming Overview for Broiler Diets

Q and A

Soybean Tutorial (Rex Nelson)

Rex Nelson (USDA). Soybase Tutorial

February 23 (Session chair: Aaron Lorenz)

Introduction of the topics

Aphids (Aaron Lorenz)

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Gustavo Macintosh (Iowa State University). Soybean Aphids Manipulate the Plant’s Phytohormone Crosstalk to Suppress Soybean Defenses

Ashley Dean (Iowa State University). Developing a Decision-making Framework for Pest Management

Q and A

Adjourn

POSTER SESSION

February 24 (Session chairs: Bo Zhang and Kyle Kocak)

Introduction of the topics

Entomology (Bo Zhang)

Thomas Kuhar (Virginia Tech). Insect Pest Response to Vegetable Soybean Genotypes Bred for Commercial Edamame Production in Virginia

Firku Haile (Corteva). Potential Risk to US Soybean from Invasive Old-world Bollworm, Helicoverpa armigera

Q and A

Break

Breeding Innovation (Kyle Kocak)

Raman Bhullar (Bayer, genomics). Gene Editing in Crops: From Bench to Field

James Schnable (University of Nebraska). Identifying Genetic Markers Linked to Pleiotropic or Non-pleiotropic Loci by Integrating Data across Traits and Trials

Changying “Charlie” Li (University of Georgia). Robot-assisted High Throughput Phenotyping Technologies

Seth Murray (Texas A and M). Transdisciplinary Plant Phenomics and Phenotyping for Breeding and Genetics

Q and A

12:00 pm. ANNOUNCEMENT OF POSTER WINNERS (KYLE KOCAK)

12:05 pm. Wrap up and adjourn (Bo Zhang)

WORKSHOP ORGANIZERS

Bo Zhang, Virginia Tech, Blacksburg, VA
Aaron Lorenz, University of Minnesota, Minneapolis, MN
Rex Nelson, USDA-ARS, Ames, IA

EXECUTIVE BOARD OF COMMERCIAL SOYBEAN BREEDERS

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