

Area Growers Seminars

2020



- Jan. 22nd SMBSC Growers Seminar
Holiday Inn, Willmar, MN
- Feb. 3rd Grand Forks Growers Seminar
Alerus Center
- Feb. 4th Fargo Growers Seminar
Holiday Inn Fargo, ND
- Feb. 6th Grafton Growers Seminar
Parish Center
- Feb. 20th Minn-Dak Growers Seminar
Factory Tare Lab

March 11 -12, 2020

International Sugarbeet Institute Show
Alerus Center Grand Forks, ND



50th Annual

Sugarbeet Research
Reporting Session



Tuesday January 14, 2020
Fargo Holiday Inn



(*) Author presenting the paper

(**) Partially funded by the Sugarbeet
Research and Education Board of
Minnesota and North Dakota

CEU Credits will be awarded to CCA holders

*Sponsored by: North Dakota State University,
University of Minnesota, and Sugarbeet Research
and Education Board of MN & ND*

Lunch Sponsored by Sumitomo Corporation

NDSU | NORTH DAKOTA STATE UNIVERSITY

 UNIVERSITY OF MINNESOTA | EXTENSION

Speakers should use 12 to 13 minutes for presentations and leave 2 to 3 minutes for questions.

Welcome and Announcements: Moderator

Mohamed Khan, Professor & Extension Sugarbeet Specialist, North Dakota State University and University of Minnesota.

7:45 Coffee

8:00 ** Safety of insecticide/fungicide/starter fertilizer combinations for sugarbeet insect management. Jacob J. Rikhus* and Mark A. Boetel. Department of Entomology, NDSU, Fargo.

8:15 ** Smart technology for root maggot fly monitoring & the 2020 forecast. Mark A. Boetel*, Jacob J. Rikhus, and Allen J. Schroeder. Department of Entomology, NDSU, Fargo.

8:30 **Herbicide trait or weed management system: waterhemp control in soybean. Thomas J. Peters*¹ and Alexa L. Lystad², ¹Extension Sugarbeet Agronomist and Weed Control Specialist and ²Research Specialist, North Dakota State University and University of Minnesota, Fargo, ND.

8:45 **Sugarbeet tolerance and weed control from postemergence Ethofumesate 4SC. Alexa L. Lystad*¹ and Thomas J. Peters², ¹Research Specialist and ²Extension Sugarbeet Agronomist and Weed Control Specialist, North Dakota State University and University of Minnesota, Fargo, ND.

9:00 **Sugarbeet tolerance and weed efficacy with acifluorfen. Emma L. Larson*¹ and Thomas J. Peters², ¹North Dakota State University, Wahpeton, ND and ²Extension Sugarbeet Agronomist and Weed Control Specialist, North Dakota State University and University of Minnesota, Fargo, ND.

9:15 **Interseeding cover crops under sugarbeet production. Sailesh Sigdel. North Dakota State University

9:30 Replanting guidelines for sugarbeet production in southern Minnesota. Mark W. Bloomquist*¹, Andrew W. Lensen², and Kenneth J. Moore², ¹Southern Minnesota Beet Sugar Cooperative, Renville, MN and ²Department of Agronomy, Iowa State University, Ames, IA.

9:45 **Effect of dehydration on sugarbeet root storage. Karen Fugate¹, Abbas Lafta², John Eide¹, and Mohamed Khan² ¹USDA-ARS, Fargo, ND; ²Dept of Plant Pathology, North Dakota State University.

10:00 BREAK. Moderator: Dr. Mark Boetel Professor Department of Entomology, NDSU

10:15 **Management of Rhizoctonia diseases in sugarbeet Ashok K. Chanda* and Jason R. Brantner University of Minnesota Northwest Research and Outreach Center, Crookston, MN and Department of Plant Pathology.

10:30 **You know its root rot, but what's causing it? Jason R. Brantner* and Ashok K. Chanda University of Minnesota Northwest Research and Outreach Center, Crookston, MN and Department of Plant Pathology.

10:45 Cellular and transcriptional responses of resistant line of Sugarbeet to *Rhizoctonia solani* AG2-2IIIB'. Md. Ehsanul Haque*¹, Dilip Lakshman² and Mohamed F. R. Khan¹. ¹NDSU, ²USDA-ARS, Beltsville

11:00 **Molecular approaches in the analysis of Rhizomania aggressiveness and the protection of sugar beet seedlings from BNYVV John J. Weiland, Alyssa Flobinus, and Melvin D. Bolton, USDA-ARS Fargo, ND

11:15 Potential strategies to mitigate *Cercospora beticola* inoculum at the end of the growing season AUSTIN K. LIEN*¹, Harold R. Mickelson¹, Jason R. Brantner^{1,2} and Ashok K. Chanda^{1,2} University of Minnesota ¹Northwest Research and Outreach Center, Crookston, MN and ²Department of Plant Pathology.

11:30 **New tools for fungicide resistance management. Rebecca Spanner*, Subidhya Shrestha* & Melvin D. Bolton. USDA-ARS, Fargo, ND

11:45 Dr. Dexter's Scholarship Award and Distinguished Service Award- Mr. Kevin Kutzer, Chair, SBREB

12:00 – 1:00 Lunch
Lunch Sponsored by Sumitomo Corporation
Moderator: Dr. Thomas Peters, Extension Agronomist, North Dakota State University

1:00 **Manure nutrient availability: A research update. Melissa Wilson, University of Minnesota

1:15 **Variability in sugarbeet tissue concentration: can tissue analysis be a fertility management tool for sugarbeet. Daniel Kaiser. University of Minnesota

1:30 **Sensitivity of *Cercospora beticola* to foliar fungicides in 2019. Gary Secor*¹, Viviana Rivera¹ and Melvin Bolton², ¹North Dakota State University, Fargo and ²USDA-ARS.

1:45 Use of high temperature (heat) to help in managing *C. beticola* – Peter Hakk* and Mohamed F. R. Khan. North Dakota State University & University of Minnesota

2:00 **Preliminary data on effect of adjuvants mixed with fungicides for control of *Cercospora* leaf spot of sugarbeet. Md. Ziaur R. Bhuiyan and Mohamed F. R. Khan. Plant Pathology, North Dakota State University

2:15 **Efficacy of Copper products at controlling *Cercospora beticola* on sugar beet. Yangxi Liu and Mohamed F. R. Khan. Plant Pathology, North Dakota State University

2:30 **Developing fungicide recommendations for managing *C. beticola* resistant populations. Mohamed F. R. Khan* and Peter Hakk. North Dakota State University & University of Minnesota