

Area Growers Seminars

2017



- Jan. 19th SMBSC Growers Seminar
Holiday Inn, Willmar, MN
- Feb. 7th Minn-Dak Growers Seminar
Eagles Club Wahpeton, ND
- Feb. 8th Grand Forks Growers Seminar
Alerus Center
- Feb. 9th Grafton Growers Seminar
Parish Center
- Feb. 14th Fargo Growers Seminar
Holiday Inn Fargo, ND

March 22 -23, 2017
International Sugarbeet Institute Show
Fargodome, Fargo, ND



47th Annual

Sugarbeet Research
Reporting Session



Tuesday January 10, 2017
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

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

Moderator: Mr. Joseph Maurer, Extension Agent Cass County, North Dakota State University

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

7:45 Coffee

8:00 ****Effect of S-metolachlor at various Applications Rates on Sugarbeet crop safety as influenced by different environmental conditions.** Andrew B. Luek* and Thomas J. Peters. Plant Sciences Department, North Dakota State University and University of Minnesota, Fargo.

8:15 ****Waterhemp Control in Sugarbeet, an Across Year Summary.** Thomas J. Peters* and Andrew B. Luek. Plant Sciences Department, North Dakota State University and University of Minnesota, Fargo.

8:30 ****Seed lubricant impacts on seedling establishment and the 2017 root maggot forecast.** Mark A. Boetel*, Allen J. Schroeder, and Jacob J. Rikhus. Department of Entomology, NDSU, Fargo.

8:45 **Experimental and registered insecticides for postmergence root maggot control.** Jacob J. Rikhus *, Mark A. Boetel, Allen J. Schroeder, and. Department of Entomology, NDSU, Fargo.

9:00 ****Integrated management of Rhizoctonia on Sugarbeet.** Ashok Chanda*¹, Jason R. Brantner¹, Mike Metzger², Mark Bloomquist³, and Cody Groen³ ¹University of Minnesota Northwest Research and Outreach Center, Crookston, MN and Department of Plant Pathology. ²Minn-Dak Farmers Cooperative, Wahpeton, ND. ³Southern Minnesota Beet Sugar Cooperative, Renville, MN.

9:15 ****Supplemental and original lime applications reduce Aphanomyces and increase Sugarbeet yield under severe disease pressure.** Jason R. Brantner* and Ashok K. Chanda. ¹University of Minnesota Northwest Research and Outreach Center, Crookston, MN and Department of Plant Pathology.

9:30 ****Effect of methyl jasmonate on Sugarbeet yield, sucrose content, and storage properties.** Karen Fugate¹, Larry Campbell¹, Mike Metzger², John Eide¹, Abbas Lafta³, and Mohamed Khan³,¹USDA-ARS, Fargo, ND, ²Minn-Dak Farmers Cooperative, Wahpeton, ND, ³Dept. of Plant Pathology, North Dakota State Univ.

9:45 ****Soil Fertility Management under Sugarbeet Production.** Amitava Chatterjee*; AES School of Natural Resource Sciences, Soil Science, NDSU, Fargo, ND

10:00 BREAK

Chairman: Mark Boetel, Professor Entomology, North Dakota State University

10:30 ****Update on Rhizoctonia research at USDA-ARS Fort Collins.** Kimberly Webb*, USDA-ARS, Fort Collins, CO

10:45 ****Plant-parasitic Nematodes on Sugarbeet in North Dakota and Minnesota.** Guiping Yan*, Plant Pathology, North Dakota State University

11:00 ****Remote sensing technique to identify and detect Sugarbeet disease (Rhizoctonia solani) in greenhouse.** S. Sivarajan, Sreekala. G. Bajwa, M. Khan, John Nowatzki*. North Dakota State University

11:15 **Modeling Growth and Yield of Sugarbeet.** Mohammad J. Anar*, Zhulu Lin and Mohamed Khan. North Dakota State University, Fargo

11:30 ****Metabolomic analysis for identification of biological functions associated with BNYVV.** William Wintermantel, UDSA-ARS, Salinas, CA

11:45 Distinguished Service Award Presentation

12:00 – 1:00 Lunch

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Chairman: Thomas Peters, Extension Agronomist, North Dakota State University and University of Minnesota

1:15 ****Effect of plant populations on Sugarbeet yield and quality.** Peter Hakk*¹, and Mohamed F. R. Khan*². ¹North Dakota State University; ²North Dakota State University & University of Minnesota.

1:30 ****Designing and Developing a new Sugarbeet Research and Education Board Website.** Alexa Lystad* and Thomas J. Peters. Plant Sciences Department, North Dakota State University and the University of Minnesota, Fargo.

1:45 **Identification of adjuvants to increase efficacy of triazoles for Cercospora leaf spot management.** Nicolas Metz*¹ and Melvin D. Bolton¹, ¹USDA – ARS, Northern Crop Science Laboratory, Fargo.

2:00 **The use of genome wide association to identify mutations associated with triazole resistance in *Cercospora beticola*.** Rebecca Sanner* and Melvin Bolton

2:15 **Rhizoctonia Crown and Root Rot Management in Montana.** Myron Bruce*, Jessica Rupp, and Ken Kephart. Department of Plant Pathology, Montana State University, Bozeman, MT.

2:30 ****Sensitivity of *Cercospora beticola* to foliar fungicides in 2016.** Viviana Rivera*¹, Gary Secor¹, Melvin Bolton², and M. F. R. Khan³; ¹Plant Pathology, NDSU, Fargo; ² USDA-ARS Northern Crop, Fargo; ³ NDSU & University of Minnesota

2:45 ****Managing diseases of Sugarbeet.** Mohamed F. R. Khan*¹, Peter Hakk², Sahar Arabiat², and Xiao Lai². ¹North Dakota State University & University of Minnesota; ²North Dakota State University.

3:00 ****Oliver Kelley Farm Revitalization Update.** *Bob Quist, Oliver Kelley Farm, Elk River, MN