

GREAT PLAINS SOIL FERTILITY CONFERENCE

MARCH 4-5, 2024 • LUBBOCK, TEXAS



2024 STANDING COMMITTEE

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GREAT PLAINS SOIL FERTILITY CONFERENCE

March 4-5, 2024
McKenzie-Merket Alumni Center
Lubbock, Texas

MONDAY, MARCH 4, 2024		
11:00 AM - 12:15 PM	Registration and Poster Set Up	
12:15 PM - 12:30 PM	Welcome and Announcements	<i>Katie Lewis</i>
12:30 PM - 1:00 PM	KEYNOTE ADDRESS Advancements in Nitrogen and Potassium Fertilizer Recommendations in North Dakota Over the Past 30 Years	<i>David Franzen</i>
1:00 PM - 2:25 PM	Session 1.1 - Conservation Practices and Nutrient Management	<i>Moderator: Katie Lewis</i>
	Assessing Corn Response to Cover Crops and Nitrogen Fertilization in a No-till, Three-year Rotation in Northeast Kansas	<i>Alexis Correia</i>
	Cover Crops in Semi-arid Dryland Winter Wheat (<i>Triticum Aestivum</i> , L.) Fallow Rotation, a Farmer Collaboration Study	<i>Liz Moore</i>
	Impact of Phosphorus Soil Test Level Differences on Crop Response in No-till Soils in Central South Dakota	<i>Sam Ireland</i>
	Dual-purpose Cover Crop and Occasional Tillage Effects on Crop Yields and Soil Properties in a No-tillage Wheat-sorghum-fallow Rotation	<i>Logan Simon</i>
2:25 PM	Break	
2:40 PM - 3:45 PM	Session 1.2 - Conservation Practices and Nutrient Management	<i>Moderator: Maysoon Mikha</i>
	Long-term Tillage with Winter Wheat Grain Yield in Dryland Cropping System	<i>Maysoon Mikha</i>
	Accounting for Nitrogen from Often Overlooked Sources	<i>Paul DeLaune</i>
3:45 PM	Break	
4:10 PM - 5:15 PM	Session 2 - Nitrogen Management	<i>Moderator: Maysoon Mikha</i>
	The Paradoxical Pursuit of Sustainable Nitrogen Management in Irrigated High-Elevation Hay Meadows	<i>Daniel Adamson</i>
	Side-dress Applied ESN Reduces N ₂ O Compared with Single Urea Application for Irrigated Corn	<i>Stephen Del Grosso</i>
	Nitrogen Management in Semi-arid Conservation Cotton Production Systems	<i>Joseph Burke</i>
5:15 PM	Break	
5:45 PM - 7:00 PM	Social and Student Poster Competition	

TUESDAY, MARCH 5, 2024

7:30 AM - 8:15 AM	Continental Breakfast	
8:15 AM - 8:20 AM	Welcome and Announcements	<i>Katie Lewis</i>
8:20 AM - 9:25 AM	Session 3.1 - Nutrient Management and Analysis	<i>Moderator: Lucas Haag</i>
	Comparative Analysis of Resource Partitioning and Nutrient Uptake Efficiencies in Modern Cotton Cultivars	<i>Irish Pabuayon</i>
	Experience with Using the Sikora-2 Soil/buffer pH Method in the Great Plains	<i>Fred Vocasek</i>
	Developing Nitrogen and Phosphorus Fertigation Strategies in Cotton	<i>Katie Lewis</i>
9:25 AM	Break	
10:05 AM - 11:05 AM	Session 3.2 - Nutrient Management and Analysis	<i>Moderator: Lucas Haag</i>
	Soil Properties and Winter Wheat Nutrient Uptake As Affected by Long-term Tillage and Nitrogen Fertilization	<i>Augustine Obour</i>
	Relationship Between Soil Health and Nutrient Availability in Semi-arid Cotton Production	<i>Joseph Burke</i>
	Combined Nitrogen with Magnesium or Zinc Effects on Sugarbeet Yield Sucrose Concentration, and Nutrient Uptake Under Conventional and No-till Systems	<i>Magdi Abdelhamid</i>
11:05 AM	Break	
11:30 AM - 1:30 PM	Luncheon - Leadership Awards, Student Poster Awards and Sponsorship Recognition	
1:30 PM - 2:55 PM	Session 3.3 - Nutrient Management and Analysis	<i>Moderator: Joseph Burke</i>
	Composted Manure Impacts on Organic Wheat Production in the Northern Great Plains	<i>Pat Carr</i>
	Effects of Fertilizer Nitrogen Management on Biomass, Oil, and Nitrous Oxide Emissions in Peppermint in Nebraska Panhandle	<i>Bijesh Maharjan</i>
	Advancing Precision Nitrogen Management in Agriculture: a Multifaceted Approach	<i>Wenxuan Guo</i>
	Impact of Fertilizer Phosphorus (P) Source, Rate, and Placement Strategy on Yield, Nutrient Uptake, and P Losses in Snowmelt Runoff Water Across Variable Topographies in Saskatchewan, Canada	<i>Blake Weiseth</i>
2:55 PM	Break	
3:20 PM - 4:45 PM	Session 4 - Environment and Soil	<i>Moderator: Joseph Burke</i>
	Implications of Nurtient and pH Stratificaiton in No-till	<i>Raedan Sharry</i>
	Shining Light on Novel Pathways for Potassium Fixation in Soil	<i>Matthew Siebecker</i>
	Lime Management in the Semi-arid Regions of the US	<i>Manbir Rakkar</i>
4:45 PM - 4:50 PM	Closing Remarks, Safe Travels Home!	

POSTER PROGRAM

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* *Student Poster*