



South Dakota Nutrient Research and Education Council

July 11, 2024

9:00 AM – 4:30 PM

SDSU Raven Precision Agriculture Center 234

1030 N Campus Drive, Brookings, SD 57007

MEMBER	REPRESENTING
RYAN WOLF – CHAIR*	SPECIALTY FERTILIZER INDUSTRY
RYAN SCHUCHHARDT – VICE CHAIR*	FERTILIZER INDUSTRY
KYLE GUSTAFSON – SECRETARY*	CERTIFIED AGRONOMY ASSOCIATION
JIM LOKEN – TREASURER*	FERTILIZER INDUSTRY
KEVIN BACHMEIER*	FERTILIZER INDUSTRY
COLIN NACHTIGAL*	GROWER ORGANIZATION
JERRY RUNIA*	GROWER ORGANIZATION
BRUCE HAINES*	FARMER MEMBER OF THE STATE CONSERVATION COMMISSION
TRAVIS STRASSER*	COMMODITY ORGANIZATION
BRYAN JORGENSEN	ENVIRONMENTAL ORGANIZATION
GEORGE SPERRY	ENVIRONMENTAL ORGANIZATION
JOHN BLANTON	SOUTH DAKOTA AGRICULTURAL EXPERIMENT STATION AT SDSU
TOM GERE	SECRETARY OF THE DEPARTMENT OF AGRICULTURE & NATURAL RESOURCES
PAUL WEGLEITNER	SECRETARY OF THE DEPARTMENT OF AGRICULTURE & NATURAL RESOURCES
* VOTING MEMBER	

INVITED PARTICIPANTS	
LIV STAVICK	SOUTH DAKOTA AGRIBUSINESS ASSOCIATION – EXECUTIVE DIRECTOR
ANGELA LOFTESNESS	SDSU COLLEGE OF AGRICULTURE, FOOD, AND ENVIRONMENTAL SCIENCES – ASSISTANT TO THE DEAN

9:00 – 9:45 AM	<p>WELCOME & APPROVAL OF AGENDA – RYAN WOLF</p> <p>APPROVAL OF MINUTES – KYLE GUSTAFSON</p> <p>FINANCIAL REPORT – JIM LOKEN AND ANGELA LOFTESNESS</p> <p>COUNCIL MEMBERSHIP QUESTION – RYAN WOLF</p> <p>APPROVAL OF REQUEST FOR PREPROPOSALS – RYAN WOLF AND ANGELA LOFTESNESS</p> <p>APPROVAL OF REQUEST FOR PROPOSALS – RYAN WOLF AND ANGELA LOFTESNESS</p> <p>CONSENT PROJECTS FOR DECEMBER AGENDA - RYAN WOLF</p>
9:45 – 10:00 AM	BREAK

10:00 AM – 12:00 PM PROJECT PRESENTATIONS AND Q&A

10:00 AM	CHRISTOPHER GRAHAM	EVALUATING SELECTED SOIL HEALTH INDICES FOR PREDICTING NITROGEN FERTILIZER REQUIREMENT FOR WINTER WHEAT IN WESTERN SOUTH DAKOTA
10:15 AM	PÉTER KOVÁCS	INVESTIGATING P AND K FERTILIZER APPLICATION TIMING AND MANAGEMENT STRATEGY ON CROP YIELD AND NUTRIENT UPTAKE
10:30 AM	PÉTER KOVÁCS	INVESTIGATING IMPACT OF STARTER FERTILIZER PLACEMENT ON PLANT DEVELOPMENT, GRAIN YIELD, AND NUTRIENT UPTAKE
10:45 AM	PÉTER KOVÁCS FOR KRISTOPHER OSTERLOH	TILLAGE EFFECTS ON LIMING EFFICIENCY IN ACIDIFIED TOPSOIL
11:00 AM	MAZHAR SHER	UTILIZATION OF LASER-INDUCED GRAPHENE-BASED SENSOR FOR SOIL NPK MEASUREMENTS AND DEVELOPMENT OF NUTRIENTS MAPS
11:15 AM	SUNISH SEHGAL	BREEDING FOR IMPROVED NITROGEN USE EFFICIENCY (NUE) IN SOUTH DAKOTA WINTER WHEAT UNDER REGENERATIVE AGRICULTURE MANAGEMENT
11:30 AM	LIN WEI	APPLICATION OF BIOSOLID-BASED NITROGEN CONTROL RELEASE FERTILIZERS FOR SUSTAINABLE CORN PRODUCTION AND SOIL HEALTH IN SOUTH DAKOTA
11:45 AM	TODD TROOEN FOR JOHN McMAINE	FIELD MONITORING OF PRECISION CONTROLLED DRAINAGE FOR WATER QUALITY AND YIELD IMPROVEMENT

12:00 – 1:00 PM EXECUTIVE SESSION – LUNCH, PRELIMINARY DISCUSSION

1:00 – 2:15 PM PROJECT PRESENTATIONS AND Q&A

1:00 PM	ROBERT MILLER	EVALUATION OF ZINC AND BORON MICRO-NUTRIENTS ON CORN NUTRITION AND GRAIN YIELD IN EASTERN SOUTH DAKOTA
1:15 PM	JASON CLARK	ACQUISITION OF A COMBINE FOR SOIL FERTILITY RESEARCH TRIALS CROP HARVEST
1:30 PM	JASON CLARK	EVALUATION OF SOIL TEST POTASSIUM AND SIDE DRESS APPLICATION OF POTASSIUM AND BIOCHAR ON CORN NUTRITION AND GRAIN YIELD IN EASTERN SD
1:45 PM	JASON CLARK	INFLUENCE OF INTERSEEDING COVER CROPS ON NITROGEN FERTILIZER RATE REQUIREMENT FOR OPTIMAL CORN GRAIN YIELD IN A NO-TILL SYSTEM
2:00 PM	JASON CLARK	COMBINING SOIL FERTILITY AND BIOLOGICAL MEASUREMENTS TO IMPROVE CORN N RATE RECOMMENDATIONS

2:15 – 2:30 PM BREAK

2:30 – 4:00 PM EXECUTIVE SESSION – REMAINING BUSINESS, WRAP-UP