



## South Dakota Nutrient Research and Education Council

December 7, 2023

9:30 AM – 4:00 PM

McCrary Gardens Education & Visitor Center

631 22<sup>nd</sup> Avenue, 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	
KATHY ZANDER	SOUTH DAKOTA AGRIBUSINESS ASSOCIATION – EXECUTIVE DIRECTOR
ANGELA LOFTESNESS	SDSU COLLEGE OF AGRICULTURE, FOOD, AND ENVIRONMENTAL SCIENCES – ASSISTANT TO THE DEAN

- 9:30 – 10:30 AM WELCOME & APPROVAL OF AGENDA – RYAN WOLF
- APPROVAL OF MINUTES – COLIN NACHTIGAL
- FINANCIAL REPORT – JIM LOKEN AND ANGELA LOFTESNESS
- REVIEW & APPROVAL OF NO-COST EXTENSIONS – RYAN WOLF
- REVIEW & APPROVAL OF CONSENT LIST FUNDING REQUESTS – RYAN WOLF
- REVIEW OF COUNCIL TERMS – RYAN WOLF
- 10:30 – 10:45 AM BREAK
- 10:45 AM – 12:00 PM PROJECT PRESENTATIONS AND Q&A

10:45 AM	DAVID CLAY	THE INFLUENCE OF NITROGEN STABILIZERS AND APPLICATION DATES IN NO-TILLAGE CORN PRODUCTION ON NITROGEN USE EFFICIENCY AND N LOSSES TO THE GROUNDWATER AND THE ATMOSPHERE*
11:00 AM	JOHN McMAINE	FIELD MONITORING OF PRECISION CONTROLLED DRAINAGE FOR WATER QUALITY AND YIELD IMPROVEMENT
11:15 AM	JASON CLARK	COMBINING SOIL FERTILITY AND BIOLOGICAL MEASUREMENTS TO IMPROVE CORN N RATE RECOMMENDATIONS
11:30 AM	JASON CLARK	IMPROVING CORN P RECOMMENDATIONS THROUGH IMPROVED SOIL TESTING
11:45 AM	JASON CLARK FOR ROBERT MILLER	EVALUATION OF ZINC AND BORON MICRO-NUTRIENTS ON CORN NUTRITION AND GRAIN YIELD IN EASTERN SOUTH DAKOTA*

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

1:00 – 2:30 PM PROJECT PRESENTATIONS AND Q&A

1:00 PM	SUSHANT MEHAN	IMPROVING PHOSPHORUS (P) FERTILIZER UPTAKE: A DEEP DIVE INTO P MOBILITY AND UTILIZATION
1:15 PM	KRISTOPHER OSTERLOH	TILLAGE EFFECTS ON LIMING EFFICIENCY IN ACIDIFIED TOPSOIL
1:30 PM	MAZHAR SHER	UTILIZATION OF LASER-INDUCED GRAPHENE-BASED SENSOR FOR SOIL NPK MEASUREMENTS AND DEVELOPMENT OF NUTRIENTS MAPS
1:45 PM	PÉTER KOVÁCS	INVESTIGATING P AND K FERTILIZER APPLICATION TIMING AND MANAGEMENT STRATEGY ON CROP YIELD, AND NUTRIENT UPTAKE*
2:00 PM	PÉTER KOVÁCS	INVESTIGATING INTENSIVE NUTRIENT MANAGEMENT IN CORN
2:15 PM	PÉTER KOVÁCS	DOES OPTIMIZED SPATIAL DISTRIBUTION OF STARTER FERTILIZER IMPROVE GRAIN YIELD?

\*PROJECTS RECEIVED FUNDING IN 2023

2:30 – 2:45 PM BREAK

2:45 – 4:00 PM EXECUTIVE SESSION – FINAL FUNDING DECISIONS, ADDITIONAL BUSINESS, WRAP-UP