



**MINUTES**  
**July 2, 2019**

The meeting of the South Dakota Nutrient Research and Education Council (NREC) was called to order by Chairman Ryan Wolf at 9:05 AM, July 2, 2019 at the SDSU Cow Calf Education and Research Facility, Brookings, SD.

In attendance were council members Kevin Bachmeier, Bill Gibbons, Trevor Hupp, Richard Jenny, Jim Loken, Dana Loseke, Colin Nachtigal, Ryan Schuchhardt, Richard Vasgaard, Paul Wegleitner, and Ryan Wolf. Council members absent from the meeting were Bryan Jorgensen, and Robert Walsh. Also in attendance was Kathy Zander, Executive Director, South Dakota Agri-Business Association and Angela Loftesness, Assistant to the Dean, College of Agriculture, Food and Environmental Sciences.

Ryan Wolf welcomed everyone to the meeting and asked for introductions.

Ryan Wolf asked for approval of the December 6, 2018 NREC meeting minutes. Richard Vasgaard moved to approve the minutes from the December 6, 2018 NREC meeting. The motion was seconded by Kevin Bachmeier and the motion carried. Ryan Wolf asked for a motion to approve the revised minutes from the June 26, 2017 NREC meeting that included the addition of the initial lengths of terms for council members. Jim Loken moved to approve the revised June 26, 2017 NREC minutes and the motion was seconded by Richard Jenny. The motion carried.

Jim Loken presented the financial report. The available balance was discussed along with expenses for some of the participants. Ryan Wolf stated that he would update his spreadsheet that tracks the multiple year projects. Ryan Schuchhardt moved to approve the financial report dated June 24, 2019. The motion was seconded by Kevin Bachmeier and the motion carried.

The grant program Terms and Conditions were discussed including the changes in section 8)b), Indemnity and Liability, requested by the South Dakota Board of Regents removing them from providing indemnity for the Council. Kathy Zander stated that she would research options regarding Non-Profit Organization Directors and Officers Liability and Employment Practices Liability Insurance. Richard Vasgaard moved to approve the revised Grant Program and Terms Conditions. The motion was seconded by Richard Jenny and the motion carried.

Updates for the 2020 Request for Preproposals were discussed including changing wheat to small grains, adding soybeans to the fertilizer placement section and updating deadline dates. Bylaws Article IV. Section 4.1 (3) which requires 10% of the fund to be used for water-quality projects by Fiscal Year 2020 was discussed. This requirement has been met. Colin Nachtigal moved to approve the changes to the 2020 Request for Preproposals. The motion was seconded by Ryan Schuchhardt and the motion carried.

Updates for the 2020 Request for Proposals was reviewed and Angela Loftesness stated she would make changes to the deadline dates. Richard Jenny moved to approve the 2020 Request for Proposals and the motion was seconded by Richard Vasgaard. The motion carried.

Media releases were discussed, and Angela Loftesness stated she would work with SDSU staff to write and distribute the announcement of the request for proposals this month.

Ryan Wolf reviewed the terms of council members that expire this year. Ryan Schuchhardt moved that Ryan Wolf, Richard Vasgaard, Dana Loseke, and Jim Loken be reappointed for another three-year term. The motion was seconded by Kevin Bachmeier and the motion carried.

The floor was opened for nomination of officers and Richard Jenny moved that current officers be re-elected. The motion was seconded by Richard Vasgaard and the motion carried, electing Ryan Wolf as Chair, Ryan Schuchhardt as Vice Chair, Colin Nachtigal as Secretary and Jim Loken as Treasurer.

Updates on currently funded projects were presented, as follows:

- Jason Clark: Influence of interseeding cover crops on nitrogen fertilizer rate requirement for optimal corn grain yield in a no-till system (3S9417), Year 1 of 3, \$82,983.
- Jason Clark: Survey of South Dakota producer's current nutrient management practices (3S9418), Year 1 of 2, \$58,712
- Jason Clark: Acquisition of a truck-mounted hydraulic soil probe for subsampling soil (3S9419), Year 1 of 1, \$30,050
- Ruanbao Zhou: Identifying solar-powered N<sub>2</sub>-fixing cyanobacteria in native grasslands for soil health and bio-nitrogen fertilizer application in South Dakota (3SB423), Year 2 of 3, \$69,816
- Dwayne Beck for Jose Guzman: The impact of soil test level differences on crop response, P leaching, and P runoff under long-term no-till management in South Dakota (3SB426), Year 2 of 2, \$59,795
- David Karki: Calibration of nitrogen requirement of oats grown for grain in South Dakota (3SB340), Year 2 of 3, \$33,314
- Connor Pederson for Shin-Yi Marzano: Exploring new microbial pathway for nitrate control by cover crop and bioreactor at the Southeast Research Station (3SB342), Year 2 of 2, \$70,790
- David Clay: Building a South Dakota corn no-tillage N recommendation algorithm that considers improvements in soil health (3S9416), Year 1 of 3, \$89,204
- Chris Graham: Fertilization management to reduce potential yield declines following no-till adoption in South Dakota (3SB425), Year 2 of 3, \$41,707
- Peter Sexton: Sulfur and nitrogen dynamics for rye raised as a cover crop (3SB424), Year 2 of 3, \$48,749
- Sandeep Kumar: Impacts of manure and inorganic fertilizer on soil fertility, water quality, and crop yield in South Dakota (3SC341), Year 2 of 2, \$40,238
- Peter Kovacs: In-season N application in corn to improve fertilizer efficiency in eastern South Dakota (3SB427), Year 2 of 3, \$120,316
- Peter Kovacs: Sulfur source and application timing effect on soybean yield (3S9415), Year 1 of 1, \$70,769
- Peter Kovacs: provided an update on a project he is currently under contract for, Nitrogen recommendation update for corn. He requested this move from contract to a proposal for NREC funds. The contract amounts are 2018-\$50,000 and 2019-\$50,000.

The council resumed regular business and discussed the presentations. Richard Jenny moved to ask Ruanbao Zhou (3SB-423, Identifying solar-powered N<sub>2</sub>-fixing cyanobacteria in topsoil for bio-nitrogen fertilizer application in SD) and Shin-Yi Marzano (3SB-342, Exploring new microbial pathway for nitrate retention to increase agroecosystem sustainability) to provide project updates at the December NREC meeting for additional funding. The motion was seconded by Keven Bachmeier and the motion carried.

Richard Jenny moved that Peter Kovaks nitrogen recommendation update for corn should be moved from a contract to a proposal for 2019. The motion was seconded by Jim Loken and the motion carried.

Under additional business, the timeline for pre-proposals and proposals were reviewed:

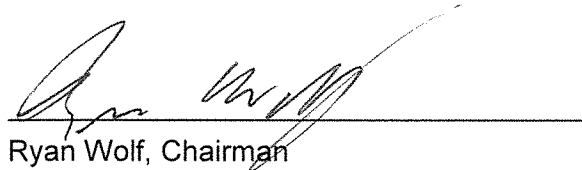
- August 16 – Preproposal submission deadline
- September 13 – NREC to select projects for full proposals
- October 18 – Full proposal deadline
- Early December 2019 – Researchers present proposals to NREC
- Mid-December 2019 – Researchers notified

Kathy Zander shared that the South Dakota Agri-Business Association (SDABA) awarded Ryan Wolf the Leon Wrage Achievement Award for 2019 in recognition of his work on NREC. She also thanked Richard Vasgaard for his help in defeating legislation that would have removed a portion of the fertilizer tonnage fee for composted manure during the 2019 legislative session.

The next meeting will be held during in early December of 2019 and Angela Loftesness will send the Council dates to be considered.

The meeting adjourned at 2:58 PM.

Submitted by:



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Ryan Wolf, Chairman