Integrating Data and Geophysics with Vadose Zone and Groundwater Nitrate

Nebraska Association of Resources Districts Short Course
Holiday Inn Conference Center, Kearney, Nebraska
March 2, 2020 11:00 am-3:00 pm

Cosponsored by the Lower Platte South Natural Resources District, the Nebraska Water Center and with support from a grant from the Nebraska Department of Environment and Energy

Agenda - March 2, 2020

11:00-11:15 pm  Welcome and Introductions
11:15-12:15 pm  Trenton Franz “Use of Hydrogeophysical Sensors in Production Agriculture”
12:15-12:45 pm  Lunch (provided) and Discussion
12:45-1:45 pm  Jesse Korus “Nebraska GeoCloud and Airborne Electromagnetics”
1:45-2:45 pm  Daniel Snow “Vadose Zone Nitrate and Hydraulic Profiling”
3:00-4:45 pm  “Water Machine” setup and demonstration - NDEE

The Nebraska Water Center will apply for 4 Continuing Education Units (CEUs) for appropriate categories of NDHHS water well licenses and certificates. To qualify you must attend the entire session, and make sure to include your license information, and email address to ensure that you get credit.

Presenter Biographies

Trenton Franz is an Associate Professor and the Associate Director in the School of Natural Resources at the University of Nebraska-Lincoln. He holds a PhD from Princeton University and a master’s and bachelor degree from the University of Wyoming. Over the past 10 years, his research interests and experience has focused on the use of hydrogeophysical sensors to provide better information on the patterns of soil and water in the root zone. His primary focus is advancing the use of these techniques for practical use in agricultural production.

Jesse Korus is an Assistant Professor in the Conservation and Survey Division of the School of Natural Resources. He holds PhD and BS degrees from the University of Nebraska, and a MS degree from Virginia Tech. Over the past 16 years, his research has been aimed at understanding geological controls on groundwater flow and aquifer characteristics. He is using airborne geophysics to map sedimentary aquifers in Nebraska, and is leading the effort to build Nebraska GeoCloud, a web-based platform for hydrogeological data. In the past he worked for NDEE and Lower Platte South NRD, and he maintains a close working relationship with the NRDs and state agencies. He continues to advance the use of airborne geophysics for practical use in water resource management.
Daniel Snow is the Director of the University of Nebraska Water Sciences Laboratory, a part of the Nebraska Water Center, and a Research Associate Professor in the School of Natural Resources at the University of Nebraska-Lincoln. He holds a PhD from the University of Nebraska, a master’s degree from Louisiana State University, and bachelor of science degree from Missouri State. Over the past 30 years, his research interests and experience has focused on the environmental fate of agrichemicals in ground and surface water. His primary responsibility is development of new methods in support of water research.

Registration Details
There is no charge for the course but to please preregister by 12:00 noon Friday, February 28, 2020 if you plan to attend. Lunch and beverages will be provided.

Please send your registration details to nwcdirector@unl.edu, including:

Name: ________________________________________________________________
Organization: __________________________________________________________
Address: ______________________________________________________________
Email Address: _________________________________________________________
NDHHS License Number (If applying for CEU credit)__________________________