Registration Information

Agricultural Drainage Design & Water Management Workshops
Wahpeton, ND and Crookston, MN

Drainage Design Workshops will be held February 11th and 12th at the Tech Center on the campus of the North Dakota State College of Science in Wahpeton and on March 5th and 6th on the campus of the University of Minnesota, Crookston. The workshops start at 8:00 a.m. and ends at 4:30 p.m. on day two. The workshops are a collaborative effort between North Dakota State University, the University of Minnesota, and South Dakota State University Extension Services.

Pre-registration for the workshops is required and must be done online at https://www.regonline.com/2014Drainage. The early registration fee is $225 and the workshops are limited to about 65 participants. These workshops typically fill quickly, so register early to guarantee a spot. Due to seating limitations, on-site registration will not be available on the day of the event. Detailed agendas and additional information can be found on the registration site.

For more information, contact:
Hans Kandel, NDSU Extension Agronomist, hans.kandel@ndsu.edu, 701-231-8135
Tom Scherer, NDSU Extension Agricultural Engineer, thomas.scherer@ndsu.edu, 701-231-7239.

2014 Extension Subsurface Drainage Design & Water Management Workshop – March 5 and 6

SARGEANT STUDENT CENTER (2ND FLOOR) – BEDE BALLROOM
2900 UNIVERSITY AVE, U OF M CROOKSTON, CROOKSTON, MN 56716

WEDNESDAY, MARCH 5

DAY 1	Topic	Presenter
7:30 am	Check-in and Refreshments	
8:00	**Introductions**	*Extension Drainage Team*
8:10	**Design 1:** Soil and Drainage Principles & Tools	*Dr. Chris Hay*
9:15	**Design 2**: Introduction to Design and Design Tools	*Drs. Chris Hay & Gary Sands*
10:45	Refreshment Break & Exhibits	
11:15	**Be Safe When You Tile**	*Jim Walker, Barnett Bros*
12:00 pm	LUNCH & Exhibits	
1:00	**Legal Considerations of Drainage**	*John Kolb* *Attorney, Rinke Noonan*
2:00	**Design 3**: Comprehensive Drainage Design Project *(layout considerations, pipe grades, cut sheets, pipe sizing)*	*Dr. Gary Sands*
4:00	**Design 4:** Pump (Lift) Station Design & Installation	*Dr. Tom Scherer*
5:00	Refreshments & Exhibits	
5:30	**Evening Program:** Farmer Experiences Panel Discussion	*Gerry Zimmerman &* *Brad Thykeson*

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THURSDAY, MARCH 6

DAY 2	Topic	Presenter
7:30 am	Refreshments & Exhibits	
7:55	**Announcements**	*Extension Drainage Team*
8:00	**Agronomic and Economic Considerations of Drainage**	*Dr. Hans Kandel*
8:45	**Conservation Drainage Concepts**	*Brad Carlson*
9:30	**Design 5:** Managed Drainage Design	*Dr. Gary Sands*
10:15	Refreshment Break & Exhibits	
10:30	**Design 6:** Team Design Project *(work in small teams on a new field project)*	*Drs. Gary Sands, Tom Scherer, & Chris Hay*
12:30 pm	LUNCH & Exhibits	
1:15	**Design 6:** Team Design Project *(team reports and discussion)*	*Drs. Gary Sands, Tom Scherer, & Chris Hay*
2:15	**Subirrigation Design**	*Nathan Utt* *Ecosystem Services Exchange*
3:00	**Using LIDAR Images for Drainage Planning**	*John Nowatzki (NDSU)*
3:45	**Drainage Design Software**	*Nathan Utt*
4:45	Evaluation & adjourn	*Extension Drainage Team*

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