

2021 Drainage Workshop and Short-Course

Hundley-Whaley Research Center
707 S. Birch Street ♦ Albany, MO

Designing & Installing Subsurface Agricultural Drainage Systems

DRAINAGE CONTRACTOR WORKSHOP

July 21-23, 2021

The Workshop begins at 1pm, with registration open at noon on Wednesday, July 21. Following a panel discussion, the Workshop should end by 3:00pm on Friday, July 23.

LANDOWNER SHORT-COURSE

July 24, 2021

11:00am to 2:00pm

The Short-Course starts with a luncheon, followed by a two-hour presentation and Q&A Session.

Associate Sponsorships

A sponsorship of \$250 includes one table-top display and two registrations for both the Drainage Workshop and the Short-Course, as well as meals and breaks during the events. (Additional attendees can register for the Drainage Workshop for \$50 per registrant. There is no fee to register for the Short-Course, but pre-registration is required for both events.)

We will list sponsors in our promotional material and will distribute the information to both the Drainage Workshop and the Landowner Short-Course attendees.

We have a limited number of table-top displays available, so these will be given on a first-come, first-served basis. Please give Debbie a call at the MLICA office (573-634-3001) to register.

We will be sending out promotional information to potential attendees in mid-June and are hoping you will share it with your customers. We are encouraging contractors to attend the Drainage Workshop and landowners to attend the Short-Course.

*In order for us to add your logo
and recognize your support in our
promotional information, we'll need
your commitment by June 10, 2021.*

Workshop Sponsors



Greenley Research Center
University of Missouri



United States Department of Agriculture
Natural Resources Conservation Service



Workshop Agenda

This workshop is designed for the drainage contractor, with specifics relating to design and installation.

WEDNESDAY, JULY 21

- Noon Registration
- 1:00pm Welcome and Introductions
- 1:15pm Introduction to Drainage Water Management
- 1:30pm MU Drainage and Sub-irrigation (MUDS) Research Update
- 2:30pm Water Movement in Soils
- ♦ Processes and Terminology
 - ♦ Important Soil Properties
 - ♦ Hydraulic Conductivity
 - ♦ Soil Water Concepts
- 3:15pm Break
- 3:30pm Engineering Standards and Specs Planning Considerations
- ♦ Needs: Surface or Subsurface Drainage, Water Table Management, or Nutrient Management
 - ♦ System Layout & Outlet Locations
 - ♦ Utilities Determination - One-Call
- Subsurface Drain Design, Pipe Capacity
- ♦ Class Problem 1, Using Design Tables and Standards
- 5:00pm Adjourn for the day

THURSDAY, JULY 22

- 8:00am Class Problem 2 & 3 - Using Design Tables and Standards
- 8:45am Lateral Design
- 9:15am Making a Topographic Map from Survey Points
- 9:45am Break
- 10:00am Class Problem 4
- 11:15am Planning Considerations
- ♦ The importance of an On-Site Evaluation of Soil Properties
 - ♦ Wetland Determination
- 12:00pm Lunch Provided

Workshop Agenda (Cont.)

THURSDAY, JULY 22 (Cont.)

- 1:00pm Class Problem 5 – System Design
- 2:30pm Class Problem 5 – Review and Discussion
- 3:00pm Break
- 3:15pm Pipe Installation Considerations
- 3:45pm Class Problem 6
- ♦ Field Topographic Map
 - ♦ Soils, Other Information, Web Soil Survey
- 5:00pm Adjourn for the day

FRIDAY, JULY 23

- 8:00am TSP Provider Training
- 8:30am Continue work on Design Problem 6
- 9:45am Break
- 10:00am Presentation and Summary of Problem 6 Drainage Design
- 11:00am Nitrogen Treatment for Drainage Systems
- 12:00pm Lunch Provided
- 1:00pm Contractor/Industry/Farmer/University Panel Discussion
- Final Questions, Summary and Evaluation
- 3:00pm Adjourn

LANDOWNER SHORT-COURSE

This Short-Course is designed for the landowner, with specifics relating to the benefits of drainage water management, as well as design and installation considerations.

SATURDAY, JULY 24

- 11:00am Registration and Lunch
- 12:00pm - 2:00pm Presentation & Q&A

HOTEL OPTIONS

At this point in time, the two hotels in Albany are booked, but Bethany (about 20 miles away) has a Quality Inn (660-425-8006) and a Super 8 (660-240-0597).