

# 2022 Drainage Workshop Agenda

Farrall Ag. Eng. Hall (524 S. Shaw Lane, East Lansing, MI 48824), Room 106

## DAY 1: TUESDAY, MARCH 8

| DAY 1    | Topic   | Presenter                  |
|----------|---|----------------------------|
| 8:00 am  | Check-in from 8:00 to 8:30 am and Breakfast   |                            |
| 8:30 am  | Welcome and Introductions                     | <i>Instructors</i>         |
| 8:45 am  | Soils and Water Movement in Soils             | <i>Dr. Ghane</i>           |
| 9:15 am  | Introduction to Drainage and Economics        | <i>Dr. Ghane</i>           |
| 9:45 am  | Break & Exhibits                              |                            |
| 9:55 am  | Drain Depth & Spacing, and Drain Spacing Tool | <i>Dr. Ghane and MLICA</i> |
| 10:40 am | Drainage Definitions and Drainage Layout      | <i>Dr. Ghane and MLICA</i> |
| 12:00 pm | Lunch & Exhibits                              |                            |
| 1:00 pm  | Drainage Layout Exercise                      | <i>Dr. Ghane and MLICA</i> |
| 1:30 pm  | Main Grade and Depth                          | <i>Dr. Ghane and MLICA</i> |
| 2:00 pm  | Sizing Main                                   | <i>Dr. Ghane and MLICA</i> |
| 2:50 pm  | Break & Exhibits                              |                            |
| 3:00 pm  | <b>Design 1</b>                               | <i>Dr. Ghane and MLICA</i> |
| 5:50 pm  | Summary and Discussion                        | <i>Dr. Ghane and MLICA</i> |
| 6:00 pm  | First Day Adjourn                             |                            |

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## DAY 2: WEDNESDAY, MARCH 9

| DAY 2    | Topic  | Presenter                                |
|----------|--|--|
| 7:00 am  | Breakfast  |  |
| 8:00 am  | Safety and Installation Tips (includes live demonstration of connecting a 4" lateral to a 6" main) | <i>Will Word and Russ Talaski, MLICA</i> |
| 9:20 am  | Break & Exhibits   |  |
| 9:30 am  | Controlled Drainage  | <i>Dr. Ghane</i>                         |
| 10:15 am | Controlled Drainage Design Layout  | <i>Dr. Ghane and MLICA</i>               |
| 11:00 pm | <b>Design 2</b> ( <i>work in teams of 5</i> )  | <i>Dr. Ghane and MLICA</i>               |
| 12:00 pm | Lunch & Exhibits (10-min presentation by MLICA)  |  |
| 1:00 pm  | <b>Continued Design 2</b> ( <i>work in teams of 5</i> )  | <i>Dr. Ghane and MLICA</i>               |
| 3:45 am  | Break & Exhibits   |  |
| 4:00 pm  | Team Design Presentations  | <i>Dr. Ghane and MLICA</i>               |
| 5:15 pm  | Summary and Discussion   | <i>Dr. Ghane and MLICA</i>               |
| 5:25 pm  | Workshop Evaluation for First Two Days   | <i>Online Survey</i>                     |
| 5:30 pm  | Second Day Adjourn   |  |

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## DAY 3: THURSDAY, MARCH 10

| DAY 3    | Topic  | Presenter                                |
|----------|--|--|
| 7:00 am  | Breakfast  |  |
| 8:00 am  | Drain Spacing Tool—maximize return on investment   | <i>Dr. Ghane</i>                         |
| 8:10 am  | Which pipe removes water the quickest?<br>What pipe properties increase water entry into pipe?   | <i>Dr. Ghane</i>                         |
| 8:45 am  | Global Mapper—Downloading DEM and Making Contours, Laying Out Mains, Making Main Profile, Laying Out Laterals and Making Lateral Profile | <i>Will Word, Word Construction Inc.</i> |
| 9:50 am  | Break & Exhibits   |  |
| 10:00 am | WATERCOURSE—Water Management Design Tool   | <i>Nate Cook, Cooke’s AGPS LLC.</i>      |
| 11:00 am | Trimble WM-Subsurface— Making contours   | <i>Joey Schlatter, Schlatter’s Inc.</i>  |
| 12:00 pm | Lunch & Exhibits   |  |
| 1:00 pm  | Trimble WM-Subsurface—Drainage Design (Layout, Grade, Sizing Main)   | <i>Joey Schlatter, Schlatter’s Inc.</i>  |
| 3:00 pm  | Break & Exhibits—Coffee and juice  |  |
| 3:15 pm  | Trimble WM-Subsurface—Continued  | <i>Joey Schlatter, Schlatter’s Inc.</i>  |
| 4:30 pm  | Trimble WM-Subsurface—Summary and Discussion   | <i>Joey Schlatter, Schlatter’s Inc.</i>  |
| 4:45 pm  | Workshop Evaluation  | <i>Online Survey</i>                     |
| 5:00 pm  | Third Day Adjourn  |  |

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