

# 2019 MGWA Education Conference – JW Marriott

## 2/21 – 2/22, 2019

### Thursday, 2/21/19 (Subject to change)

#### Track 1 Basics

- 7:45 a.m. Registration
- 8:00 a.m. Water Well Records/  
Communication/  
Documentation
- 9:00 a.m. Well Classification, Well Head  
Completion, Isolation
- 10:00 a.m. Well Plugging & Grouting Code
- 10:15 a.m. Well Plugging, Grouting  
Code, (Techniques &  
Conditions)
- 11:00 p.m. Common Misinterpreted  
Rules
- 12:00 p.m. Lunch
- 1:00 p.m. Types of Drilling in Michigan
- 1:45 p.m. Chlorination, Disinfection,  
Sampling
- 2:15 p.m. Well Drillers & Pump  
Installers Exam Prep

#### Track 2 Advanced

- 7:45 a.m. Registration
- 8:00 a.m. Before You Leave the Yard
- 9:00 a.m. Job Site Safety
- 10:00 a.m. Break
- 10:15 a.m. Water Quality and Treatment  
(including PFAS)
- 12:00 p.m. Lunch
- 1:00 p.m. Electrical Basics – Single  
Phase/Three Phase
- 2:00 p.m. Electrical/Mechanical  
System Troubleshooting –  
Round Table

#### Track 3 MGWA Education

- 7:45 a.m. Registration
- 8:00 a.m. Employee Management –  
Human Resources)
- 9:00 a.m. PFAS, Emerging Comtaminants  
and Reporting
- 10:00 a.m. Break
- 10:15 p.m. Safety In the Workplace
- 11:00 p.m. DOT Compliance/Tie Down  
Safety
- 12:00 p.m. Lunch
- 1:00 p.m. Proper Insurance for  
the Industry
- 2:00 p.m. Operating Cost Calculations  
for Business Profit

3:00–6:00 p.m. Vendor Table Top Exhibits 6:00-8:00 p.m. Reception and Banquet

### Friday, 2/22/19 (Subject to change)

#### Track 1 Basics

- 7:45 a.m. Registration
- 8:00 a.m. Water System Sizing and Design
- 9:00 a.m. Pump Principles, Design and  
Application
- 10:00 a.m. Break
- 10:15 a.m. Pressure Tank Principles,  
Sizing, and Installation
- 11:00 a.m. VFD Principles and  
Installation
- 12:00 p.m. Lunch
- 1:00 p.m. Hands-on Testing and  
Product Review
- 2:00 p.m. Hands-on Testing and  
Product Review (cont.)
- 3:00 p.m. Break
- 3:15 p.m. System Troubleshooting  
Round Table
- 5:00 p.m. End of Day

#### Track 2 Advanced

- 7:45 a.m. Registration
- 8:00 a.m. Screen Selelection & Gravel  
Pack
- 9:00 a.m. Efficient and Effective Wells
- 10:00 a.m. Break
- 10:15 a.m. Efficient and Effective Wells  
(cont.)
- 11:00 a.m. Proper Use of Chemicals
- 12:00 p.m. Lunch
- 1:00 pm Pump Systems Selection &  
Well System Pump Test
- 2:00 p.m. VFD Advanced Operation,  
Mainenance, and  
Troubleshooting
- 3:00 p.m. Break
- 3:15 p.m. Large Capacity Wells –  
Planning, Budgeting, etc.  
(What's Involved)
- 5:00 p.m. End of Day

#### Track 3 MGWA Education

- 7:45 a.m. Registration
- 8:00 a.m. Annual Meeting
- 10:15 a.m. McEllhiney Lecture 2019 –  
Changing Markets)
- 1:00 a.m. Screen Selelection & Gravel  
Pack
- 2:00 p.m. Efficient and Effective Wells
- 3:00 p.m. Break
- 3:15 to Large Capacity Wells –  
Planning, Budgeting, etc.
- 5:00 p.m. End of Day