

Oregon Ground Water Association 2007 Spring Technical Seminar

When: March 1-3, 2007

Location: Holiday Inn South
25425 SW 95th Ave
Wilsonville, Oregon 97070

Cost: varies

Contact and for more information: Nancy Sippel, Administrative Coordinator, OGWA,
503 390-7080 or website <<www.ogwa.org>>

Continuing education credits have been approved for these courses listed below as follows:

- ▶ Hazmat Update - Don Fleck, Safety & Compliance. Hazmat Update as it pertains to the drilling industry. 8.0 CECs in the hazmat category
- ▶ Jobsite Safety Update - Don Fleck, Safety & Compliance. Job Safety as it pertains to the drilling industry. 4.0 CECs in the safety/first aid/CPR category
- ▶ Bentonite Sealing Revisited - Steve Schneider, Schneider Equipment Inc. Discuss actual use and studies of deep sealing and abandonment applications using chip bentonite products. This class will include a review of current laws related thereto and a discussion of needs and feasibility of possible well construction rule changes. 2.0 CECs in the OAR/ORS category
- ▶ Centrifugal & Turbines and VFD Types & Terminology - Don Weiblen & Terry Borisch, Ferguson Enterprises. PowerPoint presentations of the following topics concerning VFDs: variable frequency drives, booster systems, centrifugal pumps, turbines (line shaft & submersibles), curves, efficiencies, impeller diameters, BEP (best efficiency point), TDH (total dynamic head) vs PSI (pressure). Q&A. 0.5 CEC
- ▶ Pump Hoist Showcase - Smeal & Pulstar Pump Hoists - Joe Shroyer, Mitchell, Lewis & Staver Company & Albin Janecek, Pulstar Manufacturing. This session will showcase both Smeal and Pulstar pump hoists - the features and operation of each rig. It will also cover the importance of making sound decisions regarding pump hoist selection, operation, and maintenance & repairs based on individual contractor or company needs. 1.0 CEC
- ▶ Why Hammers Do What They Do - Michael Mulligan, Eastern Driller's Manufacturing Co., Inc. The primary purpose of this class is to give a detailed explanation of the principles of down-the-hole hammer operation along with maintenance that should be done to protect the tools. He will debunk some of the most commonly held misconceptions about the hammers and their operation. 1.0 CEC
- ▶ Wirsbo Pex Product Application & Certification - Scott Nelson, Hollabaugh Brothers & Associates. This two-hour session will cover the use and application of Uponor plumbing products as they pertain to pump installation, the tools used to connect the product and how to make the connection properly. It will go over technology of cross-linked polyethylene pipe, features and advantages of the product. This class will certify to

install Uponor plumbing products on pump installation projects for warranty purposes.
1.0 CEC

- ▶ Truck Safety & Updates: Hours of Service, Cargo Securement, etc. - Cuck Adams, ODOT. This presentation will cover Federal and state regulations & updates regarding truck/motor carrier safety (over 10,000 lbs) that pertain to equipment used in the ground water industry - hours of service, cargo securement, vehicle maintenance and driver qualification. Q&A. 1.0 CEC
- ▶ Pacific Northwest Weather and Climate, Past and Present - And What We Can Expect in the Future - George H. Taylor, State Climatologist. George Taylor will discuss long-term trends in temperature, snowpack, precipitation, glaciers, and other climate and climate-related parameters and suggest what these tell us about the future. He will also discuss the recently-released report from the UN climate group, IPCC. 1.0 CEC
- ▶ The Effects of Measure 37 on the Ground Water Industry - Jerry Schmidt, OGWA Lobbyist, and Malia Kupillas, Pacific Hydro-Geology, Inc. This class is an overview of the passage of Measure 37 and the effects it has on land development, water resources and the ground water industry. It will also cover potential changes being proposed by the legislature and the governor's office. 1.0 CEC
- ▶ The Drilling Cost Calculator - Scott Fowler, Dahlman Pump & Well Drilling. An overview of the drilling cost calculator program developed by NGWA. Contractors from around the nation convened to develop this comprehensive Microsoft Excel spreadsheet to capture costs associated with borehole and well construction. This spreadsheet works as a drilling cost calculator that allows the contractor to enter his own current costs, as well as his own profit objectives. You will be able to see how changes in any or all variables such as fuel costs can impact the cost of drilling, as well as the profitability of a drilling job. 1.0 CEC
- ▶ Water Well & Municipal Valve Technology - Mark Magda, Danfoss Flomatic. This presentation will include several valve types and applications in the water well and municipal industries discussing in-line check valves, swing check valves, automatic control valves and constant pressure pump control valves. These types of valves are installed in domestic water well applications and in large municipal potable water well installations. The valves can range in size from ½" through 36". There will be an open discussion at the end of the presentation for Q&A. 1.0 CEC
- ▶ Making It All Fit - Septic Systems vs Well Placement vs Everything Else - Zan Ewing, Sani-Tech Consulting Services. A PowerPoint presentation and overview of septic systems and how they work, the challenges of well and septic system placement on properties, and the importance of working together to make it all fit! Also, an overview of new treatment systems and technology - Q&A. 1.0 CEC
- ▶ Pump Motor Protection - David Tucker, SymCom, Inc. This class will discuss the causes of single and three-phase motor failures and electrical devices currently available for protection and how they function. 0.5 CEC
- ▶ New Technology in Welding Power Source Design & Consumables and Why Do Welds Crack - Al Steiner, Lincoln Electric. An overview of new technology in welding power source design and consumables - new design in engine driven power sources in the field, new stick electrodes welding rods used in the industry and an overview of some of the reasons welds crack. 1.0 CEC

- ▶ Pump & Water System Troubleshooting and Service - Randy Mather and Andrew Hettwer, Consolidated Pump & Supply; Frank Beaudry, Franklin Electric. This class will cover troubleshooting pumps & water systems beyond the basics - from both an electrical and hydraulic standpoint followed by a Q&A session. 0.5 CEC
- ▶ Beyond the Basics of Well Disinfection - Paul Querna, PQ Products, Inc. Follow up to *State of the Art in Well Disinfection*. Follow up with more detail of problem analysis and solutions. Testing procedures, new methods and available diagnostics will be covered. 1.0 CEC