OWRD Sponsored Continuing Education March 28 & 29, 2006 Wilsonville, Oregon

The following courses are approved for CECs: Day 1

- "OWRD Continuing Education, Rules Update and Well Location Requirements" Tracy Eichenlaub & Kris Byrd, Oregon Water Resources Department (OWRD). Approved for 1.5 CECs in the Oregon ground water and well construction statutes and rules category. Course description: This course will review the continuing education program, including what is required; address the change to one license; and review the Department's requirements for well locating.
- "Septic Systems & You" Speaker TBA, Clackamas County Water Environment Services. Approved for 0.5 CEC.

Course description: This course will describe the septic program, what information is available, how to search their records and some tips for onsite locating of septic systems, among other things.

- "GPS" Bill Ferber, OWRD. Approved for 1 CEC in the Oregon ground water and well construction statutes and rules category.
- Course description: An introduction to using your GPS unit and reporting well location information to the OWRD. **If you have a GPS unit, bring it today.**
- "Online Submittal of Well Logs" Ken Smith, OWRD. Approved for 1.5 CEC in the Oregon ground water and well construction statutes and rules category.
- Course description: An in-depth look at the Department's new online well log submittal forms and process and well log queries.
- "Oregon's Public Water systems: Ground Water Sources" Dennis Nelson, Department of Human Services, Drinking Water Program. Approved for 1 CEC.

Course description: This class will provide a brief overview of the Dept of Human Services' Drinking Water Program policies and regulations related issues of interest to Oregon's well constructors. Specific topics will include 1) determining the recharge areas and susceptibility of aquifers supplying public drinking water wells; 2) natural controls of water chemistry; 3) regulations concerning well construction for public water supply wells; and 4) public water wells that produce groundwater that is under the direct influence of surface water.

• "Underground Injection Control" Barbara Priest, Oregon Department of Environmental Quality. Approved for 1 CEC.

Course description: What in the world is a UIC and why should I care? Learn what a UIC is and is not. Questions you should ask before drilling or closing a drill hole, drywell or water well.

• "High-Voltage Electrical Hazards" Doug Kirk, Portland General Electric. Approved for 1 CEC in the safety/first aid/CPR category.

Course description: Associated overhead and underground hazards of high voltage lines. Explanation of Oregon's Overhead Line Safety Act. How to communicate with electric companies when you will be working near high voltage lines.

• "Oregon's Water Woes: Past & Present" William N. Orr, Ph.D., Emeritus Professor at the University of Oregon. Approved for 1 CEC.

Course description: It is an open secret that Oregon is running out of both ground and surface water, and much of the remaining flow is badly contaminated. How did this crisis come about? A look at the environmental history of the state's water use reveals a pattern of continual reckless consumption rather than of conservation. Wasteful practices, which began with the first settlers, when water was plentiful, continue even today, leading the state further down a disastrous route. A diversity of geologic and physiographic settings here yield a large variety of stream and groundwater scenarios and problems.

Before the 1950s water allocations primarily went toward agricultural production, but today demand has drastically changed, and agriculture must compete for a supply with municipalities, industry, fish and recreation. The search is on for the mythical limitless streams flowing underground as new water rights permits are passed out, new management ideas are drawn up, and incredibly complex schemes juggle water from place to place, from season to season, and from user to user. Having evolved into one of the most heavily polluted rivers in the Northwest and among the dirtiest in North America, the Willamette exemplifies this picture. Opening in 2002, the water treatment plant at Wilsonville began to process Willamette River water for consumption in nearby communities, while clean groundwater is pumped onto field for crops.

• "Backflow Prevention and Chemigation" Department of Agriculture. Approved for 1 CEC.

Course description: A general introduction to who we are, what we do, and specifically, ways to reduce risks to human health and the environment through good chemigation practices, back-flow prevention, and well-head construction/monitoring.

- "One Call/Oregon Dig Law" Gary Hyatt, NW Natural. Approved for 2 CECs. Course description: This course will cover the Oregon Dig Law.
- "Drill Cutting Identification" Professor Scott Burns, Portland State University. Approved for 2 CECs.

Course description: a) General geology of Western Oregon - characteristics and origin; b) General geology of the Willamette Valley - at the surface and the subsurface; c) characterization of well cuttings; d) **bring in your well cuttings to be described.**

• "Bedrock Heterogeneity and Shallow Occurrence of Saline Ground Water in Western Oregon" Ivan Gall, OWRD. Review pending.

Course description: Geologic mapping in the vicinity of Grants Pass, Oregon, shows that the distribution of fresh and saline (>80 mg/L chloride) groundwater is locally controlled by steeply dipping bedrock features. Bedrock in the area consists of Mesozoic meta-sedimentary, meta-volcanic, and intrusive rocks. The Rogue River and its tributaries - the regional groundwater discharge areas - are incised into the bedrock but locally flow across Quaternary alluvium. The types of geologic anomalies bounding saline groundwater zones include: 1) structural features such as faults and/or up-thrown blocks, 2) intrusive features such as dikes and intrusive contact zones, 3) depositional contrasts such as steeply dipping contacts between volcanic rock and phyllite, and 4) erosional features such as bedrock highs in alluvium.

When: March 28 & 29, 2006

Day 1: 8:30 a.m. - 5:00 p.m. Day 2: 9:00 a.m. - 5:00 p.m.

Location: Wilsonville Training Center

Rooms 111 & 112

29353 SW Town Center Loop East

Wilsonville, Oregon 97070

Cost: None

Contact and for more information: Tracy Eichenlaub, 503 986-0856, or by e-mail at

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Note: Please let us know if you plan to attend.