

Well Constructor Continuing Education Committee Meeting Minutes  
Tuesday October 11, 2005

Committee Members Present: Greg McInnis, Terry Daugherty, Kris Byrd  
Others Present: Nancy Sippel, Juno Pandian, Tracy Eichenlaub

The meeting was called to order at 9:25 a.m. by Chair McInnis.

A) Cont. Ed. Committee Meeting Minutes

The draft minutes from the June 16, 2005, meeting were reviewed. Byrd motioned to approve the draft minutes, Daugherty seconded. The vote was all in favor.

B) Other Issues

- Staff informed the Cont. Ed. Committee that the Department is organizing an 8 hour class.
- Staff informed the Cont. Ed. Committee that the Department is working on an online course.
- Staff informed the Cont. Ed. Committee that Terry Daugherty was appointed for a second term.

C) Review of Applications

The Cont. Ed. Committee reviewed the course application for **“Private Wells and Stream Flow”** submitted by the **Washington State Ground Water Association**. This 1½ hour course was given **October 7, 2005, as part of their 2005 Fall Convention in Pasco, WA**. Daugherty motioned to assign **1.5 CECs**, Byrd seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for **“Well Efficiency is not a Myth”** submitted by the **Washington State Ground Water Association**. This 1½ hour course was given **October 7, 2005, as part of their 2005 Fall Convention in Pasco, WA**. Daugherty motioned to assign **1.5 CECs**, McInnis seconded. The vote was all in favor.

The Cont. Ed. Committee received the course application for **“Manufacture and Supplier exhibits”** submitted by the **Washington State Ground Water Association**. This exhibit was **October 7, 2005, as part of their 2005 Fall Convention in Pasco, WA**. Per OAR 690-205-0045(4) and OAR 690-240-0210(4) exhibits shall count as one CEC per approved exhibition attended, thus a vote was not required.

The Cont. Ed. Committee reviewed the course application for **“Current Issues Effecting our Industry”** submitted by the **Washington State Ground Water Association**. This one hour

course was given **October 8, 2005, as part of their 2005 Fall Convention in Pasco, WA.** McInnis motioned to assign **0 CEC**, Byrd seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for **“Washington State Rules and Regulations”** submitted by the **Washington State Ground Water Association.** This one hour course was given **October 8, 2005, as part of their 2005 Fall Convention in Pasco, WA.** Byrd motioned to assign **0 CEC**, Daugherty seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for **“Work Site Hazards”** submitted by the **Washington State Ground Water Association.** This one hour course was given **October 8, 2005, as part of their 2005 Fall Convention in Pasco, WA.** McInnis motioned to assign **1 CEC in the safety/first aid/CPR category**, Byrd seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for **“Vehicle and Load Safety Inspection”** submitted by the **Washington State Ground Water Association.** This 1½ hour course was given **October 8, 2005, as part of their 2005 Fall Convention in Pasco, WA.** Daugherty motioned to assign **1.5 CECs in the safety/first aid/CPR category**, McInnis seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for **“Well Monitoring with Dataloggers”** submitted by the **Washington State Ground Water Association.** This one hour course was given **October 8, 2005, as part of their 2005 Fall Convention in Pasco, WA.** Byrd motioned to assign **1 CEC**, McInnis seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for **“Drilling Industry Round Table Discussion”** submitted by the **Washington State Ground Water Association.** This half hour course was given **October 8, 2005, as part of their 2005 Fall Convention in Pasco, WA.** Daugherty motioned to assign **0.5 CEC**, McInnis seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for **“Hanford Hazardous Waste Site”** submitted by the **Washington State Ground Water Association.** This one hour course was given **October 8, 2005, as part of their 2005 Fall Convention in Pasco, WA.** Byrd motioned to assign **1 CEC**, Daugherty seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for **“Hands-on Motor & Controls”** submitted by the **Oregon Ground Water Association.** This two hour course is scheduled for **October 15, 2005, as part of their 2005 Fall Convention at Kah-Nee-Ta Resort, OR.** Daugherty motioned to assign **1 CEC**, McInnis seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for **“Under Reaming Systems Product Showcase”** submitted by the **Oregon Ground Water Association.** This two hour course is scheduled for **October 14, 2005, as part of their 2005 Fall Convention at Kah-Nee-Ta Resort, OR.** Daugherty motioned to assign **2 CECs**, McInnis seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for **“The A-E and MW of Cement Grouting and Reporting”** submitted by the **Oregon Ground Water Association**. This one hour course is scheduled for **October 14-15, 2005, as part of their 2005 Fall Convention at Kah-Nee-Ta Resort, OR**. Byrd motioned to assign **1 CEC in the Oregon gw/well laws category**, McInnis seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for **“Gadgets for Pump Technicians and More and What Happened to Code Update”** submitted by the **Oregon Ground Water Association**. This one hour course is scheduled for **October 14, 2005, as part of their 2005 Fall Convention at Kah-Nee-Ta Resort, OR**. McInnis motioned to assign **0.5 CEC**, Daugherty seconded. The vote was all in favor.

The Cont. Ed. Committee had the course application for **“Continuing Education Update for Drillers and Cruising the Restructured OWRD Website”** submitted by the **Oregon Ground Water Association**. Byrd recused himself, there was no quorum, this course will be reviewed at the next meeting.

The Cont. Ed. Committee reviewed the course application for **“Dealing with Low-Producing Wells and Advanced Water Treatment”** submitted by the **Oregon Ground Water Association**. This one hour course is scheduled for **October 14, 2005, as part of their 2005 Fall Convention at Kah-Nee-Ta Resort, OR**. Byrd motioned to assign **1 CEC**, McInnis seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for **“Designing an Efficient Well - Sieve Analysis, Screen Sizing and Sandpacking Screens”** submitted by the **Oregon Ground Water Association**. This two hour course is scheduled for **October 15, 2005, as part of their 2005 Fall Convention at Kah-Nee-Ta Resort, OR**. McInnis motioned to assign **2 CECs**, Daugherty seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for **“Water Testing Equipment for Drillers”** submitted by the **Oregon Ground Water Association**. This one hour course is scheduled for **October 15, 2005, as part of their 2005 Fall Convention at Kah-Nee-Ta Resort, OR**. McInnis motioned to assign **1 CEC**, Byrd seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for **“Water Rights and Wells - placement of wells to protect future water rights”** submitted by the **Oregon Ground Water Association**. This one hour course is scheduled for **October 14, 2005, as part of their 2005 Fall Convention at Kah-Nee-Ta Resort, OR**. Daugherty motioned to assign **1 CEC**, McInnis seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for **“The Importance of Tax Lot Number and Other Well Location Information on a Well Report”** submitted by the **Oregon Ground Water Association**. This one hour course is scheduled for **October 15, 2005, as part**

of their **2005 Fall Convention at Kah-Nee-Ta Resort, OR**. McInnis motioned to assign **1 CEC in the Oregon gw/well laws category**, Byrd seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for **“GPS: Using It Accurately In The Field”** submitted by the **Idaho Ground Water Association**. This 55 minute course was given **March 7, 2005, as part of their 2005 North Idaho Workshop in Post Falls, ID**. Byrd motioned to assign **1 CEC**, McInnis seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for **“DOT: What to Expect”** submitted by the **Idaho Ground Water Association**. This 55 minute course was given **March 7, 2005, as part of their 2005 North Idaho Workshop in Post Falls, ID**. McInnis motioned to assign **1 CEC**, Byrd seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for **“Horizontal Drilling”** submitted by the **Idaho Ground Water Association**. This one hour course was given **March 7, 2005, as part of their 2005 North Idaho Workshop in Post Falls, ID**. Daugherty motioned to assign **1 CEC**, McInnis seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for **“Effective Sealing, Grouting and Plugging Techniques”** submitted by the **Idaho Ground Water Association**. This 1 hour 50 minute course was given **March 7, 2005, as part of their 2005 North Idaho Workshop in Post Falls, ID**. Daugherty motioned to assign **2 CECs**, Byrd seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for **“Hydrology of Northern Idaho”** submitted by the **Idaho Ground Water Association**. This 55 minute course was given **March 7, 2005, as part of their 2005 North Idaho Workshop in Post Falls, ID**. McInnis motioned to assign **1 CEC**, Byrd seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for **“Wage and Labor Law”** submitted by the **Idaho Ground Water Association**. This 55 minute course was given **March 7, 2005, as part of their 2005 North Idaho Workshop in Post Falls, ID**. Byrd motioned to assign **1 CEC**, McInnis seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for **“IDWR Rules and Regulations”** submitted by the **Idaho Ground Water Association**. This 55 minute course was given **March 7, 2005, as part of their 2005 North Idaho Workshop in Post Falls, ID**. Daugherty motioned to assign **0 CEC**, McInnis seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for **“Geothermal Heating and Cooling Systems”** submitted by the **International School of Well Drilling**. This is an online course offered by the School. Daugherty motioned to assign **2 CECs**, McInnis seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for **“Drilling Methods”** submitted by

the **International School of Well Drilling**. This is an online course offered by the School. Daugherty motioned to assign **2 CECs**, McInnis seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for “**Well Rehabilitation**” submitted by the **International School of Well Drilling**. This is an online course offered by the School. McInnis motioned to assign **2 CECs**, Byrd seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for “**Injection Wells**” submitted by the **International School of Well Drilling**. This is an online course offered by the School. Daugherty motioned to assign **2 CECs**, McInnis seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for “**Aquifer Storage Recovery**” submitted by the **International School of Well Drilling**. This is an online course offered by the School. Byrd motioned to assign **1 CEC**, Daugherty seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for “**Basic Geology and Groundwater**” submitted by the **International School of Well Drilling**. This is an online course offered by the School. Daugherty motioned to assign **1 CEC**, McInnis seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for “**Well Abandonment**” submitted by the **International School of Well Drilling**. This is an online course offered by the School. McInnis motioned to assign **1 CEC**, Byrd seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for “**Well Development**” submitted by the **International School of Well Drilling**. This is an online course offered by the School. Daugherty motioned to assign **1 CEC**, McInnis seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the course application for “**History of Well Construction**” submitted by the **International School of Well Drilling**. This is an online course offered by the School. McInnis motioned to assign **1 CEC**, Daugherty seconded. The vote was all in favor.

#### E) Review of Documentation

**Joel Jeffery**, #10074, submitted:

- ▶ documentation for “**SAIFer Oregon Driver**” training, a four hour course taken March 1, 2005. Daugherty motioned to assigned **4 CECs in the safety/first aid/CPR category**, Byrd seconded. The vote was all in favor.

**Steve Zimmerman**, #10330 & #1620 submitted:

- documentation for the **January 2004 Utah Ground Water Association Convention**. McInnis motioned to assign **4.5 CECs, with one of them being in the exhibit category**, Byrd seconded. The vote was all in favor.
- documentation for the following courses taken at the **March 25-26, 2004 “Western States Geothermal Conference: Design, Installation and Marketing”** in Sacramento,

California. All courses are 30 minutes unless otherwise noted. **Note:** This was also held April 5-6, 2004, in Nashville, TN under the name “Tennessee Valley Authority/NGWA Well Drilling and Geothermal Heat Pump Conference: Design, Installation and Marketing.” Courses on the agenda that Zimmerman did not take were also reviewed so as to be done if others submit the course requesting CECs. Courses Zimmerman did not attend are italicized.

• **“Geothermal Heat Pump Basics: Principles of How Systems Operate,”** Byrd motioned to assign **0.5 CEC**, Daugherty seconded. The vote was all in favor.

• **“Understanding the Economics and the Opportunities of Geothermal Heat Pumps,”** Daugherty motioned to assign **0.5 CEC**, Byrd seconded. The vote was all in favor.

• **“Polyethylene Pipe: Fusion and More!,”** Byrd motioned to assign **0.5 CEC**, Daugherty seconded. The vote was all in favor.

• **“The Heat Pump Business from a Driller’s Perspective,”** McInnis motioned to assign **0.5 CEC**, Byrd seconded. The vote was all in favor.

• *“Understanding Heat Pump Benefits,”* Byrd motioned to assign **0.5 CEC**, Daugherty seconded. The vote was all in favor.

• *“Hands on PE Pipe Fusion Training and Demonstration,”* Daugherty motioned to assign **0.5 CEC**, McInnis seconded. The vote was all in favor.

• *“Regulatory Considerations A Summary of State by State Regulations for Ground Water Heat Pump Wells,”* McInnis motioned to assign **0.5 CEC**, Daugherty seconded. The vote was all in favor.

• **“Regional Regulatory Issues (Sacramento) California’s Draft Standards for Geothermal Heat Exchange Wells,”** 15 minutes, Byrd motioned to assign **0 CEC**, Daugherty seconded. The vote was all in favor.

• *“Questions and Answers, Group Discussion,”* McInnis motioned to assign **0 CEC**, Byrd seconded. The vote was all in favor.

• **“Grouting Geothermal Wells,”** Byrd motioned to assign **0.5 CEC**, McInnis seconded. The vote was all in favor.

• **“Direct Use of Geothermal Waters,”** McInnis motioned to assign **0.5 CEC**, Byrd seconded. The vote was all in favor.

• *“Heat Pumps One on One,”* McInnis motioned to assign **0 CEC**, Byrd seconded. The vote was all in favor.

• **“Drilling Equipment Necessary,”** Byrd motioned to assign **0.5 CEC**, Daugherty seconded. The vote was all in favor.

• **“Grouting Materials Commonly Used,”** Daugherty motioned to assign **0.5 CEC**, McInnis seconded. The vote was all in favor.

• **“Large Commercial Installations: Schools and More,”** 1 hour 45 minutes, Byrd motioned to assign **2 CECs**, McInnis seconded. The vote was all in favor.

• **“Formation Thermal Conductivity Testing,”** Daugherty motioned to assign **0.5 CEC**, Byrd seconded. The vote was all in favor.

• *“Vertical Closed Loop Installation Workshop,”* one hour, Byrd motioned to assign **1 CEC**, Daugherty seconded. The vote was all in favor.

• *“Business Structures,”* one hour, McInnis motioned to assign **1 CEC**, Daugherty seconded. The vote was all in favor.

Curran Mohnney, #10399 submitted:

- ▶ documentation for **“Introduction To Arcview 3.2 GIS”** on January 22-23, 2002. Byrd motioned to assign **0 CEC**, McInnis seconded. The vote was all in favor.
- ▶ documentation for **“Introduction To Arcview 3.x”** on September 2, 2004. McInnis motioned to assign **0 CEC**, Byrd seconded. The vote was all in favor.
- ▶ documentation for **“Basic Operation - Trimble Geoxt Gps Receivers, Terrasync & Pathfinder”** on October 1, 2004. McInnis motioned to assign **7.5 CECs**, Daugherty seconded. The vote was all in favor.

F) Public Comment

No public comments were received.

G) Future Meeting

Next meeting to be scheduled for early December.

Adjourn.