

MINUTES
Well Constructor Continuing Education Committee
Tuesday, February 9, 2010

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

A) Cont. Ed. Committee Meeting Minutes

The revised draft minutes from the December 22, 2009, meeting were reviewed. McInnis motioned to approve the revised draft minutes as is, Byrd seconded. The vote was all in favor.

B) Other Issues

- None

C) Review of Applications

The Cont. Ed. Committee reviewed the following course applications as part of the **Washington State Ground Water Association (WSGWA) 2010 CEU Spring Seminars**, scheduled for **March 12, in Tacoma, Washington (WA); March 13, in Kelso, WA; March 26, in Pasco, WA; and March 27, in Spokane, WA:**

- **“Troubleshoot with Meters” eight (8) hours.** The instructor is Roger Chick. Daugherty motioned to assign **four (4) CECs**, McInnis seconded. The vote was all in favor.
- **“Regulations & Underreaming” two (2) hours.** The instructor is Steve Kaser, Forge Pacific LLC. McInnis motioned to assign **two (2) CECs**, Daugherty seconded. The vote was all in favor.
- **“Well Decommissioning” one (1) hour.** The instructor is Mike Piechowski, Robinson & Noble Inc. Discussion: regarding amount of time that would be specific to WA rules/requirements. Byrd motioned to assign **0.5 CEC**, McInnis seconded. The vote was all in favor.
- **“Draw Down & Recovery: Basic Pumping Tests” two (2) hours.** The instructor is Mike Piechowski, Robinson & Noble Inc. McInnis motioned to assign **two (2) CECs**, Daugherty seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the following course applications as part of the **2010 Oregon Ground Water Association (OGWA) Spring Technical Seminar**, scheduled for **March 11-13, 2010, in Wilsonville, Oregon:**

- **“Well Construction Rules Update - to include electronic well mapping, GPS and WRD Web Resources as they apply to well construction” one (1) hour 45 minutes, March 12, 2010.** The instructors will be Oregon Water Resources Department (OWRD) staff. Byrd motioned to assign **two (2) CECs in the OR gw/well laws category**, Daugherty seconded. The vote was all in favor.

- **“Identifying, Logging and Recording Drill Samples” one (1) hour, March 12, 2010.** The instructor is Victor Calloway. Daugherty motioned to assign **one (1) CEC**, McInnis seconded. The vote was all in favor.
- **“Motor Controls and Protection” one (1) hour, March 12, 2010.** The instructor is Don Bean, Pacific NW Sales Company. Byrd motioned to assign **0.5 CEC**, Daugherty seconded. The vote was all in favor.
- **“Principles of Thermally Enhanced Grout” one (1) hour, March 12, 2010.** The instructor is Jim Piasecki, CETCO. McInnis motioned to assign **one (1) CEC**, Byrd seconded. The vote was all in favor.
- **“Motor Control Panels – Design Features & Operation” one (1) hour, March 12, 2010.** The instructor is Brian Blackburn, Cerus Industrial. McInnis motioned to assign **0.5 CEC**, Daugherty seconded. The vote was all in favor.
- **“Formation Sand Analysis and Well Screen Slot Sizing” one (1) hour, March 12, 2010.** The instructor is Bob Lacey, Alloy Machine Works, Inc. Byrd motioned to assign **one (1) CEC**, Daugherty seconded. The vote was all in favor.
- **“Chemical Feed Pumps & VFD Applications” one (1) hour, March 12, 2010.** The instructor is Phil Pelletier, Furrow Pump. Daugherty motioned to assign **0.5 CEC**, McInnis seconded. The vote was all in favor.
- **“Value-Added Pumping Tests – Permit Condition Pumping Test Standards” one (1) hour, March 12, 2010.** The instructor is Karl Wozniak, OWRD. McInnis motioned to assign **one (1) CEC in the OR gw/well laws category**, Daugherty seconded. The vote was all in favor.
- **“Overview of Sutherlin Valley Groundwater Arsenic Study, new arsenic testing rules & health concerns regarding arsenic, coliform bacteria and nitrates in ground water” one (1) hour, March 12, 2010.** The instructor is Brenda Hoppe, Oregon Health Division Office of Environmental Public Health. Byrd motioned to assign **one (1) CEC**, McInnis seconded. The vote was all in favor.
- **“Well Rehabilitation and Disinfection” one (1) hour, March 13, 2010.** The instructor is Jim Piasecki, CETCO. McInnis motioned to assign **one (1) CEC**, Daugherty seconded. The vote was all in favor.
- **“Biolubricants – an alternative to outside and down-the-hole lubricants for your drilling & pump operations” one (1) hour, March 13, 2010.** The instructor is Jim Potter, BioBlend Renewable Resources LLC. McInnis motioned to assign **one (1) CEC**, Byrd seconded. The vote was all in favor.
- **“Problem Water Quality and Treatment – The UN-usual Suspects” one (1) hour, March 13, 2010.** The instructor is Allen Hurtado, United Pipe & Supply. McInnis motioned to assign **one (1) CEC**, Daugherty seconded. The vote was all in favor.
- **“Video Logging of Water Wells – how this information can be used as an informative tool for drillers & pump installers” one (1) hour, March 13, 2010.** The instructor is Ed Brown, Water Well Developing & Surveys. McInnis motioned to assign **one (1) CEC**, Daugherty seconded. The vote was all in favor.
- **“Roundtable Discussion: Topics for the Groundwater Industry – technology**

that can help you in the field, new laws that affect your business, CCB continuing education requirements, water legislative update, question & answer session” one (1) hour, March 13, 2010. The facilitator is Kevin Gill, Clouser Drilling. Byrd motioned to assign **one (1) CEC**, McInnis seconded. The vote was all in favor.

- **“My Customer Has Arsenic: What Are My Options (Part 2)” one (1) hour, March 13, 2010.** The instructors are Allen Hurtado, United Pipe & Supply and Carl Garrison, Garrison Engineering. Daugherty motioned to assign **one (1) CEC**, McInnis seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed the following course applications as part of the **2010 Pacific Northwest Ground Water Expo** scheduled for **February 19-20, 2010, in Portland, Oregon (OR)**. The sponsor is the **National Ground Water Association (NGWA)**. The courses were reviewed as follows:

- **“The 12 Questions You Should Ask Yourself Before Agreeing to Serve on any Board” one hour 30 minutes, February 19, 2010.** The instructor is Kevin McCray, NGWA. Byrd motioned to assign **1.5 CECs**, McInnis seconded. The vote was all in favor.
- **“What’s New from DOT” one (1) hour, February 19, 2010.** The instructor is Gary LaBrake, On the Road. Daugherty motioned to assign **one (1) CEC in the safety/first aid/CPR category**, Byrd seconded. The vote was all in favor.
- **“Thriving in Any Economy” two (2) hours, February 19, 2010.** The instructor is Rick Oberle, Well Magic. McInnis motioned to assign **two (2) CECs**, Byrd seconded. The vote was all in favor.
- **“Diagnosing and Remediating Common Well and Water Quality Problems” two (2) hours, February 19, 2010.** The instructor is Dave Hanson, Design Water Technologies. McInnis motioned to assign **two (2) CECs**, Daugherty seconded. The vote was all in favor.
- **“Washington State Code Rules and Regulations” two (2) hours, February 19, 2010.** The instructor is Marian Bruner, WA Department of Ecology. Byrd motioned **not to assign CECs**, McInnis seconded. The vote was all in favor.
- **“The Boy Scout/Girl Scout Approach to a DOT Audit: Be Prepared” one (1) hour 30 minutes, February 19, 2010.** The instructor is Gary LaBrake, On the Road. McInnis motioned to assign **1.5 CECs**, Daugherty seconded. The vote was all in favor.
- **“You Drill a Hole - You Develop a Well” one hour 30 minutes, February 20, 2010. Note: this is the 2010 NGWREF McElhiney Lecture.** The instructor is Edd Schofield, Johnson Screens. Byrd motioned to assign **1.5 CECs**, McInnis seconded. The vote was all in favor.
- **“The Importance of Collecting Good High Quality Samples: An Engineer’s Perspective” one (1) hour, February 20, 2010.** The instructor is Wesley Spang, Geocon Northwest. Daugherty motioned to assign **one (1) CEC**, McInnis seconded. The vote was all in favor.

- **“Hammer Calibrations Do Make a Difference” one (1) hour, February 20, 2010.** The instructor is Elliott Mecham, GeoDesign, Inc. McInnis motioned to assign **one (1) CEC**, Byrd seconded. The vote was all in favor.
- **“Water Gremlins: Coliform Bacteria in Wells and Water Systems” one (1) hour, February 20, 2010.** The instructor is Todd Krause, Northwest Water Systems. McInnis motioned to assign **one (1) CEC**, Daugherty seconded. The vote was all in favor.
- **“Exploring Geothermal Opportunities” one (1) hour, February 20, 2010.** The instructor is Jack Henrich, Bergerson-Caswell, Inc. McInnis motioned to assign **one (1) CEC**, Byrd seconded. The vote was all in favor.
- **“Drilling Fluid 101” one hour 30 minutes, February 19, 2010.** The instructor is Kirby Donald, Baroid Industrial Drilling Products. Byrd motioned to assign **1.5 CECs**, Daugherty seconded. The vote was all in favor.
- **Note:** There were portions of this day’s course that were reviewed at the November 18, 2008, meeting, thus they were not reviewed at this meeting. Those were: “Effective Fleet Management: Preventing Common Water Well Driller Fleet Accidents” one (1) CEC in the safety/first aid/CPR category; “Understanding IADC Codes for Tricone Bits” one (1) CEC; “Preventable or Unpreventable: Accident Investigation” 1.5 CECs.

The Cont. Ed. Committee reviewed the following course applications as part of the **Ground Source Heating & Cooling for Residential and Commercial Properties held February 3, 2010, in Seattle, WA.** The sponsor is the **American Ground Water Trust (AGWT).** The courses were reviewed as follows:

- **“Introduction” 20 minutes.** The instructor is Garret W. Graaskamp, AGWT. Daugherty motioned **not to assign CEC**, Byrd seconded. The vote was all in favor.
- **“Washington’s Energy Initiative – Ground Source Energy Overview” 30 minutes.** The instructor is Tony Usibelli, WA Energy Policy Office. Discussion: regarding whether this was specific to Washington and how Oregon and Washington’s Energy initiative’s compare. Byrd motioned **not to assign CEC**, McInnis seconded. The vote was all in favor.
- **“Ground Source Heat Pumps – The Fundamentals” 50 minutes.** The instructor is Lisa Meline, Meline Engineering. Byrd motioned to assign **one (1) CEC**, Daugherty seconded. The vote was all in favor.
- **“Geexchange Well Construction for Thermal Efficiency and Environmental Protection” 40 minutes.** The instructor is Michael Snorsky, Geo Loop Tec Co. Byrd motioned to assign **0.5 CEC**, McInnis seconded. The vote was all in favor.
- **“Thermal Grouts – Types and Properties” 25 minutes.** The instructor is John Sowers, Baroid IDP. Byrd motioned to assign **0.5 CEC**, McInnis seconded. The vote was all in favor.
- **“Painting the Energy Efficiency Picture of Heating and Cooling Systems” 40 minutes.** The instructor is Lisa Rosenow, Northwest Energy Efficiency Council. McInnis motioned to assign **0.5 CEC**, Daugherty seconded. The vote was all in favor.

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- **“Computer-Aided Ground Source Heat Pump System Design” 45 minutes.** The instructor is Daniel Bernstein, GAIA Geothermal, LLC. McInnis motioned to assign **0.5 CEC**, Byrd seconded. The vote was all in favor.
- **“Geexchange Installations State and Local Rules and Regulations” 40 minutes.** The instructor is Bill Lum II, WA Department of Ecology. McInnis motioned to assign **0.5 CEC**, Daugherty seconded. The vote was all in favor.
- **Note:** There were portions of this day’s course that were reviewed at the May 19, 2009, meeting, thus they were not reviewed at this meeting. Those were: “The Status of the ‘Geothermal’ Industry” one (1) CEC; “Ground Source Earth Coupling Design Principles” one (1) CEC; “Economic Success Stories – The Payback – Residential, Commercial and Industrial” one (1) CEC.

D) Review of Documentation

- None

E) Public Comment

F) Future Meeting

TBD

Adjourn