

**MINUTES**  
Well Constructor Continuing Education Committee  
April 18, 2014

Committee Members Present: Greg McInnis, Warren McCann (teleconferencing), Angela Garner  
Joel Jeffery

Others Present: Brenda Bateman, Laurie Norton, Nancy Sippel

A) Introductions and Acknowledgements

Brenda Bateman, Division Administrator addressed the Committee by introducing herself and noting she was present in place of Kris Byrd. She said that the 2014 Legislative session approved the continuing education bill, which took effect March 13, 2014. Brenda also introduced Joel Jeffery as the new Well Construction Program Coordinator, and Laurie Norton as the new Well Program Licensing Specialist.

B) Cont. Ed. Committee Meeting Minutes (9:00)

The draft minutes from the (September 26, 2013), meeting were reviewed. Greg McInnis motioned to approve the draft minutes as is, Angela Garner seconded. The vote was all in favor.

C) Other Issues

Election of a Vice Chair was discussed. The Committee decided that the Vice Chair will be elected at the next Continuing Education Meeting. The Continuing Education Committee voted to not assign credits to **Oregon OSHA 2014 Credit Classes” at this time. Initially, Greg McInnis motioned to assign the same credits as had been previously assigned for the OSHA courses. Not all the Committee agreed with the motion. Angela Garner motioned to designate a person(s) to review the courses to see if they are still valid. Joel Jeffery seconded. The vote is as follows: Joel – “aye”, Angela – “aye”, Warren – “aye”, Greg – “nay”.**

C) Review of Applications

The Cont. Ed. Committee reviewed the courses that comprise the **“OGWA 2014 Spring Technical Seminar” held February 28 - March 2, 2014, in Wilsonville, Oregon (OR).**

The seminar is sponsored by the **Oregon Ground Water Association (OGWA).** The courses were reviewed as follows:

- **“State of the Ground Water Industry”: overview of the state of the industry in the Pacific Northwest” one (1) hour, February 28, 2014.** The instructor was Jerry Schmidt, Oregon Water Consultants. Greg McInnis motioned to assign **1 (one) CEC**, Joel Jeffery seconded. The vote was all in favor.
- **“Describing Well Cuttings in Volcanic Aquifers”: preferred methods of cutting descriptions obtained during drilling of wells in volcanic aquifers” one (1) hour, February 28, 2014.** The instructor was Karl Wozniak, OWRD, Rules. Angela Garner motioned to assign **one (1) CEC in Rules category.** Greg McInnis seconded. The vote was all in favor.
- **“At the Source Water Testing”: the importance of evaluating and testing water**

- quality at the source” one (1) hour, February 28, 2014.** The instructor Mark Scheufler, 2M Company. Angela Garner motioned to assign **1 (one) CEC** Greg McInnis seconded. The vote was all in favor.
- **“Recent Development in Oregon Geology”: locating & using information for water well drillers and hydrologists one (1) hour, February 28, 2014.** The instructor is Tom Wiley, DOGAMI (rules). Greg McInnis motioned to assign **1 (one) CEC, in the rules category**, Joel Jeffery seconded. The vote was all in favor.
  - **“Water Treatment Workshop for Water Treatment Contractors and Well Drillers” one (1) hour, February 28, 2014.** The instructor is Carl Garrison, Garrison Engineering. Angela Garner motioned to assign **1 (one) CEC**, Joel Jeffery seconded. The vote was all in favor.
  - **“Water Testing in the Lab: overview of how water is analyzed and reported” one (1) hour, February 28, 2014.** The instructor is Beth Myers, WaterLab Corp. Greg McInnis motioned to assign **one (1) CEC**, Angela Garner seconded. The vote was all in favor.
  - **“Federal Motor Carrier Rules Update & How to Prepare for a Truck Inspection” one (1) hour, February 28, 2014.** The instructor is Chuck Adams, ODOT Motor Carrier Division. Greg McInnis motioned to assign **one (1) CEC**, Angela Garner seconded. The vote was all in favor.
  - **“POE Cartridge Alternatives: advances in point of entry cartridge based water treatment” one (1) hour, February 28, 2014.** The instructor is Gabe Ergler, O3 Water Systems. Angela Garner motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.
  - **“Well Water Hydro-Fracturing: development of hard rock formations through hydro-fracturing” one (1) hour, February 28, 2014.** The instructor is Lynn Bartholomew, Northwest Hydro-Fracturing. Greg McInnis motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.
  - **“Ultrafiltration Membrane Technology: residential ultrafiltration systems” one (1) hour, February 28, 2014.** The instructor is Gabe Ergler, O3Water Systems. Angela Garner motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.
  - **“Use of Mobile Devices in the Field: tools for business productivity and time management (smart phones & iPads)” one (1) hour, February 28, 2014.** The instructor is Rosalinda Vasquez, Verizon Wireless. Greg McInnis motioned to assign **one (1) CEC**, Angela Garner seconded. The vote was all in favor.
  - **“Well Rehabilitation Using Chemicals: problems, solutions, and application” one (1) hour, February 28, 2014.** The instructor is Norman V. Howard, Cotey, Cotey Chemical Corp. Angela Garner motioned to assign **1 (one) CEC**, Joel Jeffery seconded. The vote was all in favor.
  - **“Commercial Water Softening: sizing resin capacities, required information needed for sizing, and application” one (1) hour, February 28 2014.** The instructor is Mark Russell, Water-Right, Inc. Angela Garner motioned to assign **1 (one) CEC**, Joel Jeffery seconded. The vote was all in favor.

- **“Components & Benefits of Properly Constructed Wells” one (1) hour, March 1, 2014.** The instructor is Steve Schneider, Schneider Water Services. Angela Garner motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.
- **“Hydraulics – Watching Water Flow, Knowing How the Pump Works” two (2) hours, March 1, 2014.** Bill Corey, Pentair Water Training Institute is the instructor. Angela Garner motioned to assign **two (2) CECs**, Greg McInnis seconded. The vote was all in favor.
- **“Practical Applications for Mud Rotary Drilling” one (1) hour, March 1, 2014.** The instructor is Roy Janssen, A.M. Janssen Well Drilling & Kirby Donald, Baroids. Warren McCann motioned to assign **one (1) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“Working Around Electricity: overview of underground & overhead power transmission lines” one (1) hour, March 1, 2014.** The Instructor is Charles Tate, Pacific Power. Greg McInnis motioned to assign **two (2) CECs, in the safety category**, Joel Jeffery seconded. The vote was all in favor.
- **“Would You Hire You – How Your Customers See You” one (1) hour, March 1, 2014.** The instructor is Steve Kaser, Forge Pacific LLC. Angela Garner motioned to assign **1 (one) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“Back to the Future – Well Drilling in the Pacific Northwest in 2024” one (1) hour, March 1, 2014.** The instructor is Steve Kaser, Forge Pacific LLC. Warren McCann motioned to assign **one (1) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“WTI Licensing & Apprenticeship Update: discuss current happenings of WTI licensing and apprenticeship formation” one (1) hour, March 1, 2014.** The instructor is Michael Klobes, Crow Water Systems. Greg McInnis motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.

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The Cont. Ed. Committee reviewed some courses that were offered at the **“National Ground Water Association Groundwater Expo and Annual Meeting,”** held **December 3-6, 2013, in Nashville, Tennessee (TN).** The Expo was sponsored by the **National Ground Water Association (NGWA).** The courses were reviewed as follows:

- **“Borehole Cameras as a Well Rehabilitation Tool” one (1) hour, December 3, 2013.** The instructor was Steve Strong, Laval Underground Surveys. Angela Garner motioned to assign **one (1) CEC**, Angela Garner seconded. The vote was all in favor.
- **“Mobile Workforce Telecommunications Technology” one (1) hour, December 3, 2013.** Angela Garner motioned to assign **one (1) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“Solar Powered Pump Sizing and “Applications” one (1) hour, December 3, 2013.** The instructor was Eric Macias, Gicon Pumps & Equipment. Angela Garner motioned to assign **one-half (0.5) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“Hydraulic Fracturing and Flexible Drop Pipe: How Lay Flat Hoses are**

- Changing the Way Water is Supplied to the Fracking Industry” one (1) hour, December 3, 2013.** The instructor was Tanner Tryon, Hose Solutions. Angela Garner motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.
- **“The Grateful Tread” one (1) hour, December 3, 2013.** The instructor was Jim Wright, National Exploration, Wells, Pumps. Greg McInnis motioned to assign **one (1) CEC**, Angela Garner seconded. The vote was all in favor.
  - **“Components and Benefits of Properly constructed Wells” one (1) hour, December 3, 2013.** The instructor was Steve Schneider, MGWC, Schneider Water Services. Angela Garner motioned to assign **one (1) CEC**, Greg McInnis seconded. The vote was all in favor.
  - **“Contracts Can Make or Break a Project: ConsensusDocs can Help” one (1) hour, December 3, 2013.** The instructor was Carrie L. Gillberto, Esq, ConsensusDocs. Angela Garner motioned to assign **one (1) CEC**, Greg McInnis seconded. The vote was all in favor.
  - **“Drilling and Production Thread Compounds” one (1) hour, December 3, 2013.** The instructors were Mike Melancon, Jet-Lube and Joe Large, Jet-Lub Inc. Angela Garner motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.
  - **“Hours of Service” 1 (one) hour, December 3, 2013.** The instructor was Gary LaBrake, On the Road. Greg McInnis motioned to assign **one (1) CEC**, Angela Garner seconded. The vote was all in favor.
  - **“How to Select a Pressure Transducer for Your Groundwater or Surface Water Monitoring” one (1) hour, December 3, 2013.** The instructor was Bill Mann, In-Situ Inc. Greg McInnis motioned to assign **one (1) CEC**, Angela Garner seconded. The vote was all in favor.
  - **“Ownership Succession Planning” one (1) hour, December 3, 2013.** The instructor was Kelly Finnell, J.D. CLU, AIF, Executive Financial Services, Inc. Greg McInnis motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.
  - **“Reducing Well Life Cycle Pumping Cost with Intelligent Variable Frequency Drives” one (1) hour, December 3, 2013.** The instructor John Edwards, Motor Controls Inc. Angela Garner motioned to assign **one –half (0.5) CEC**, Greg McInnis seconded. The vote was all in favor.
  - **“Effluent Pumps for Onsite Wastewater Treatment” one (1) hour, December 3, 2013.** The instructor was Tom Stephan, Goulds Water Technology. Angela Garner motioned to assign **one-half (0.5) CEC**, Joel Jeffery seconded. The vote was all in favor.
  - **“Groundwater Well Systems as an Integral Part of Surface Water Planning, One (1) hour, December 3, 2013.** The instructor was Kathleen M. Wiseman, Water Systems Engineering Inc. Joel Jeffery motioned to assign **one (1) CEC**, Greg McInnis seconded. The vote was all in favor.
  - **“Innovative Techniques for Conducting a Low-Flow Groundwater Sampling Event” one (1) hour, December 3, 2013.** The instructor was John Murray, In-Situ

Inc., Fort Collins, CO. Greg McInnis motioned to assign **one (1) CEC**, Angela Garner seconded. The vote was all in favor.

- **“Mud Rotary Drilling” one (1) hour, December 3, 2013.** The instructor was Roger E. Renner, MGWC, E.H. Renner & Sons, Inc., Elk river, MN. Warren McCann motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.
- **“OSHA’s Globally Harmonized System of Classification and Labeling of Chemicals” one (1) hour, December 3, 2013.** The instructor was Denis Crayon, Certified Health & Safety Technician, Experience Safety Institute, Bridgewater, NJ. Angela Garner motioned to assign **one (1) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“Transporting Hazardous Materials” one (1) hour, December 3, 2013.** The instructor was Gary LaBrake, On the Road, Branford, CT. Greg McInnis motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.
- **“Air Rotary Drilling” one (1) hour, December 3, 2013.** The instructor was Richard Thron, MFWC, Mantyla Well Co., Stillwater, MN. Angela Garner motioned to assign **1 (one) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“Aquifer Characterization Test and Pressure Transducer Data Collection” one (1) hour, December 3, 2013.** The instructor was Bill Mann, In-Situ Inc., Fort Collins, CO. Greg McInnis motioned to assign **one (1) CEC**, Angela Garner seconded. The vote was all in favor.
- **“Better Wells with Chemicals – Rehabilitation Solutions” one (1) hour, December 3, 2013.** The instructor was Kevin McGinnis, Cotey Chemical Corp., Lubbock TX. Angela Garner motioned to assign **1 (one) CEC**, Joel Jeffery seconded. The vote was all in favor.
- **“Hydrogeology 101” one (1) hour, December 3, 2013.** The presenter was W. Richard Laton, Ph.D., P.G., CPG., California State University-Fullerton, Santa Ana, CA. Joel Jeffery motioned to assign **one (1) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“Submersible and Jet Pump Troubleshooting” one (1) hour, December 3, 2013.** The instructor was Chris Preston, Xylem Inc., Morton Grove, IL. Angela Garner motioned to assign **one –half (0.5) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“Treat Your Business Like an Investment and Retire on Your Terms” one (1) hour, December 3, 2013.** The instructor was Tim McDaniel, Rea & Associates, Dublin, OH. Angela Garner motioned to assign **one (1) CEC**, Warren McCann seconded. The vote was all in favor.
- **“Writing an Effective Resume” one (1) hour, December 3, 2013.** The instructor was Melissa Lenczewski, Ph.D, Northern Illinois University. Warren McCann motioned to assign **one (1) CEC**, Angela Garner seconded. The vote was all in favor.
- **“Groundwater Occurrence and Aquifer Types”, December 3, 2013.** The instructor was Thom Hanna, RPG, Johnson Screens, Evergreen CO. Joel Jeffery motioned to assign **1 (one) CEC**, Greg McInnis seconded. The vote was all in favor.

- **“How to Properly Use Water Quality Instrumentation to Characterize Groundwater Accessed by Direct Push Technologies” one (1) hour, December 3, 2013.** The instructor was Laura St Pierere, YSI Inc., Yellow Springs OH. Angela Garner motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.
- **“The Misuse of Chlorine in Wells and Pipelines: Is More Really Better”? one (1) hour, December 3, 2013.** The instructor was David T. Hanson, Design Water Technologies, Shorewood, MN. Angela Garner motioned to assign **one (1) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“Understanding Health Care Reform: What Employers Need to Know” one (1) hour, December 3, 2013.** The instructor was John Friend, the Fedeli Group, Independence, OH. Angela Garner motioned to assign **one (1) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“VFD Troubleshooting” one (1) hour, December 3, 2013.** The instructor was Kyle Schoenheit, Goulds Water Technology, A Xylem Brand, Seneca Falls, NY. Angela Garner motioned to assign **one-half (0.5) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“Cost-Effective Tools for Investigations and Remedial Applications – Direct Push ‘Technology’ three and one-half (3.5) hours, December 3, 2013.** The instructor was Branch Manchon, Janeil Environmental Solutions, Houston, TX. Warren McCann motioned to assign **4 (four) CECs**, Greg McInnis seconded. The vote was all in favor.
- **“Functions and Properties of Drilling Fluids” one (1) hours, December 3, 2013.** The instructor was Jeff Blinn, Baroid Industrial Drilling Products, Halliburton, Houston, TX. Angela Garner motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.
- **“Harmonics – Clean Power at the End of the Line” one (1) hour, December 3, 2013.** The instructor was Larry R Stanley, ABB Inc., Fairview, TN. Greg McInnis motioned to assign **one-half (0.5) CEC**, Angela Garner seconded. The vote was all in favor.
- **“How Using NGWA Business Tools Can Increase Your Profits” one (1) hour, December 3, 2013.** The instructor was Jessica Roads, NGWA, Westerville, OH. Joel Jeffery motioned to assign **one (1) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“NGWA’s Hydrogeologic Guidelines for Large-Scale Geothermal Heat Pump Installations” one (1) hour, December 3, 2013.** The instructor was Kevin B. McCray, CAE, National Ground Water Association, Westerville, OH. Joel Jeffery motioned to assign **one (1) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“U.S. Army Corps of Engineers – What We Do/Who We Are, one (1) hour, December 3, 2013.** The instructor was Ethan Weikel, PG, Geology & Investigations Section, USACE Baltimore District, Baltimore, MD. Warren McCann motioned to assign **1 (one) CEC**, Joel Jeffery seconded. The vote was all in favor.
- **“Vehicle Inspections and Maintenance” one (1) hour, December 3, 2013.** The instructor was Gary LaBrake, On the Road, Branford CT. Angela Garner motioned

- to assign **1 (one) CEC** Greg McInnis seconded. The vote was all in favor.
- **“Geophysical Well Logging for Water Wells (Tools for Downhole Diagnostics)” one (1) hour, December 3, 2013.** Joel Jeffy motioned to assign **one (1) CEC**, Greg McInnis seconded. The vote was all in favor.
  - **“Geothermal Vaults” one (1) hour, December 3, 2013.** The instructor was Kukhi Dhillon, Sales, KWH Pipe, Mississauga, ON, Canada. Angela Garner motioned to assign **1 (one) CEC**, Warren McCann seconded. The vote was all in favor.
  - **“Proper Cargo Securement for the Groundwater Industry” one (1) hour, December 3, 2013.** The instructor was Roger E. Renner, MGWC, E.H. Renner & Sons Inc., Elk River MN. Warren McCann motioned to assign **one (1) CEC**, Greg McInnis seconded. The vote was all in favor.
  - **“Specifying Water Pumps, Motors and Pump Panel Controls for Optimal Performance and Lowest Cost” one (1) hour, December 3, 2013.** The instructor Timothy Albers, Nidec Motor Corporation, St Louis, MO. Angela Garner motioned to assign **one-half (0.5) CEC**, Greg McInnis seconded. The vote was all in favor.

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The Cont. Ed. Committee reviewed the **Washington State Ground Water Association Fall 2013 CEU Seminar held October 26, 2013 in Kelso, WA, November 1, 2013 in Spokane, WA; and November 2, 2013 in Richland, WA.**

The courses were reviewed as follows:

- **“Regulations Update” New developments in Washington’s well construction and licensing statutes as well as review of current regulations, 2 (two) hours, various locations.** Department of Ecology. Greg McInnis motioned to assign **0 (zero) CECs**, Angela Garner seconded. The vote was all in favor.
- **“Watch your Welds” one (1) hour, all locations.** The instructor was Curtis Bailey, instructor at Everett Community College. Angela Garner motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.
- **“Geology for Drillers” one (1) hour, all locations.** The instructor was Mark Koffler, licensed Washington State Geologist. Greg McInnis motioned to assign **1 (one) CEC**, Angela Garner seconded. The vote was all in favor.
- **“Drilling on Tribal Lands & Other Preserved Lands, one (1) hour, all locations.** The instructor was Lois Trevino, Water Administrator for Colville Confederated Tribes. Greg McInnis motioned to assign **one (1) CEC**, Angela Garner seconded. The vote was all in favor.
- **“Water Rights” An updated understanding of Washington State’s Water Rights, 2 (two) hours, various locations.** Department of Ecology. Greg McInnis motioned to assign **zero (0) CECs**, Angela Garner seconded. The vote was all in favor.

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The Cont. Ed. Committee also reviewed the **Washington State Ground Water Association Spring 2014 CEU Syllabi. Classes held March 7, 8, 14, 15 in Tacoma, Kelso, Pasco, Spokane, WA.** The courses reviewed are as follows:

- **“Back to the Future” Well Drilling in Washington 2024 one (1) hour, March 7, 8, 14, 15, 2014.** (This class was offered at NGWA’s December 2013 Ground Water Expo and Annual Meeting in Nashville, TN, with same instructor – Steve Kaser). The instructor was Steve Kaser, Forge Pacific. Greg McInnis motioned to assign **one (1) CEC**, Angela Garner seconded. The vote was all in favor. (Note this course was offered by NGWA, OGWA also).
- **“Accident Prevention Compliance Tools” two (2) hours, March 7, 8, 14, 15, 2014.** The instructor was Bill Neal, Washington State license to construct Water and Resource Protection Wells, Washington State Plumber/Elec. Combo license (03), Washington State Water Works Operator Certification. Greg McInnis motioned to assign **two (2) CECs in the safety category**, Warren McCann seconded. The vote was all in favor.
- **“Pumping Tests: Why & What” one (1) hour, March 7, 8, 14, 15, 2014.** The instructor was Mike Piechowski, Licensed Hydrogeologist in WA (#592). Angela Garner motioned to assign **one (1) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“Inconsolidated Aquifer Formations & Well Design” one (1) hour, March 7, 8, 14, 15, 2014.** The instructor was Mike Piechowski, Licensed Hydrogeologist in WA (#592). Greg McInnis motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.
- **“Basic Grounding/Plumbing Code for Pump Installers” eight (8) hours, March 7, 8, 14, 15, 2014.** The instructor was /roger Chick, 18 years as Electrical Inspector with L & I, certified Master Electrician, International Association of Electrical Inspectors, owner of Electrical Training Institute. Greg McInnis motioned to assign **four (4) CECs**, Warren McCann seconded. The vote was all in favor.

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 The Cont. Ed Committee reviewed the **Idaho Ground Water Association November 15, 2013 Workshop**. The classes reviewed are as follows:

- **“Ground Water Conditions in the Rathdrum Prairie Aquifer” one (1) hour, November 15, 2013.** The instructor was Ken Neely, Idaho Department of Water Resources. Greg McInnis motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.
- **“Hydrogeology/Geology of the Rathdrum Prairie Aquifer” one (1) hour, November 15, 2013.** The instructor was Gary Stevens Idaho Department of Environmental Quality. Greg McInnis motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.
- **“Introduction to the Spokane Valley-Rathdrum Prairie Aquifer Model” one (1) hour, November 15, 2013.** The instructor was Allan Wylie, Idaho Department of water Resources. Warren McCann motioned to assign **one (1) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“IDWR Rules and Regulations”, two (2) hours, (8:00-9:00 and 3:30-4:30), November 15, 2013.** The instructor was Tom Neace, Idaho Department of Water Resources. Greg McInnis motioned to assign **zero (0) CECs**, Warren McCann



seconded. The vote was all in favor.

- **“Washington Well Construction Standards”, two (2) hours, (9:00-10:00 and 2:15 -3:15), November 15, 2013.** The instructor was Mark Ader, Washington Department of Ecology. Angela Garner motioned to assign **zero (0) CECs**, Warren McCann seconded. The vote was all in favor.

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The Cont. Ed. Committee reviewed the **Idaho Ground water Association Draft Convention Agenda for January 29 and 30, 2014.** The classes reviewed are as follows:

- **“The Grateful Tread” one (1) hour, January 1, 2014.** The instructor was Jim Wright, National Exploration, Wells and Pumps. This class was offered at NGWA’s December 2013 Ground Water Expo and Annual Meeting in Nashville, TN). Greg McInnis motioned to assign **one (1) CEC**, Warren McCann seconded. The vote was all in favor.
- **“Updates on Plumbing & Electrical Standards” one (1) hour, January 29, 2014.** The instructors were John Nielsen, Idaho State Plumbing Inspector/Plumbing Program Manager; and Mick Williams, certified as Electrical Inspector-General and Electrical Plans Examiner, also licensed Idaho Master Electrician. Greg McInnis motioned to assign **zero (0) CEC**, Angela Garner seconded. The vote was all in favor.
- **“Ground Water Quality Monitoring in Idaho”, one (1) hour, January 29, 2014.** The instructor was Ken Neely, Idaho Department of Resources. Greg McInnis motioned to assign **one (1) CEC**, Warren McCann seconded. The vote was all in favor.
- **“Oregon Well Drilling Rules & Statutes” one (1) hour, January 29, 2014.** The instructor was Kris Byrd. Greg McInnis motioned to assign **one (1) CEC**, Angela Garner seconded. The vote was all in favor.
- **“New Welding & Plasma Cutting Equipment” two (2) hours, January 30, 2014.** The instructor was Scott Weaver, Norco; Bryan Kwapis, Miller Electric; Gene Morril, Hypertherm. Angela Garner motioned to assign **two (2) CECs**, Greg McInnis seconded. The vote was all in favor.
- **“Truckers’ Logs: Do I Need to Have One?” one hour and 30 minutes (1.5) January 29, 2014.** The class offered by NGWA in Nashville. The instructor was Seth Uhlenkott, Idaho State Police. Warren McCann motioned to assign **one and one-half (1.5) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“Well Screen Products & Design” one (1) hour and 30 minutes, January 30, 2014.** The instructors were Steve Mathews and Jacob Richardson, Alloy Machine Works. Angela Garner motioned to assign **one and one-half (1.5) CECs**, Joel Jeffery seconded. The vote was all in favor.
- **“Beyond the Grout Task Force – What Makes a Good Seal?” one hour and 30 minutes (1.5) hour, January 29, 2014.** The instructor was Tom Cristopherson, Nebraska Health & Human Services. Warren McCann motioned to assign **one and one-half (1.5) CECs**, Angela Garner seconded. The vote was all in favor.
- **“Idaho Rules & Regulations for Well Drilling”, two (2) hours, January 29,**

**2014.** The instructor was Tom Neace, Idaho Department of Water Resources. Greg McInnis motioned to assign **zero (0) CEC**, Warren McCann seconded. The vote was all in favor.

- **“Fall Protection, Lock Out – Tag Out & GHS Awareness” one hour and 30 minutes (1.5) hours, January 30, 2014.** The instructors were Jeremie Wise, Mountain States Safety, and Chris Smith, National Marker Co. Warren McCann motioned to assign **one and one-half (1.5) CECs, in the safety category**, Greg McInnis seconded. The vote was all in favor.
  - **“I’m From OSHA & Here to Help!” one hour (1) and 30 minutes, January 29, 2014.** The instructor was Bill Bankhead, Occupational Safety & Health Administration, Warren McCann motioned to assign **one and one-half (1.5) CECs, in the safety category.** Greg McInnis seconded. The vote was all in favor.
  - **“Overcome Pitfalls & Collect High Quality Data Using GPS/GNSS” one (1) hour and 30 minutes, January 29, 2014.** The instructor was Alison Walker, Electronic Data Solutions, Greg McInnis motioned to assign **one and one-half (1.5) CEC**, Warren McCann seconded. The vote was all in favor.
  - **“An Overview of Oregon’s Exempt Groundwater Use Recording & Mapping Program” one (1) hour, January 29, 2014.** The instructor was Ivan Gall, Oregon Water Resources Dept. Warren McCann motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.
  - **“Laws & Rules for Washington Licensed Drillers”, one (1) hour, January 29, 2014.** The instructor was Bill Lum, Washington Department of Ecology. Greg motioned to assign **zero (0) CEC**, Warren McCann seconded. The vote was all in favor.
  - **“Nitrates in Ground Water – Idaho’s Nitrate Priority Areas” two (2) hours, January 30, 2014,** Greg McInnis motioned to assign **two (2) CEC’s**, Warren McCann seconded. The vote was all in favor.
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The Cont. Ed. Committee reviewed the **“IGWA CEC Workshop”**, held **March 14, 2014, in Nampa, Idaho (ID)**. The courses reviewed are as follows:

- **“Trucker’s Logs: Do I Need One?” One hour (1), March 14, 2014,** Instructor was Jesse Avery, Idaho State Police. **One (1) CEC**, McCann motioned, McInnis seconded. The vote was all in favor.
- **“Oregon Groundwater Rules” one (1) hour, March 14, 2014.** The instructor was Jason Spriet, Oregon Water Resources Dept., Angela Garner motioned to assign **one (1) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“I’m From OSHA & Here to Help!, March 14, 2014.** The instructor was Bill Bankhead, OSHA. This class was offered at the IGWA 2014 Convention, January 29 and 30, 2014, in Boise, Idaho; it was assigned **one and one-half (1.5) CECs**, McCann motioned, McInnis seconded. The vote was all in favor.
- **“Oregon Groundwater Rules” one (1) hour, March 14, 2014.** The instructor was

Bob Maynard, Oregon Water Resources Dept. Joel Jeffery motioned to assign **one (1) CEC**, Greg McInnis seconded. The vote was all in favor.

- **“Aquifer Storage & Recovery (ASR) Well Maintenance”, one (1) hour, March 14, 2014.** The Instructor was LeRoy Palmer, AmeriWest Water Services, Angela Garner motioned to assign **one (1) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“Minimum Surface Seal Evaluation” one (1) hour, March 14, 2014.** The instructor was Dale Ralston, Ralston Hydrologic Services, Inc., Angela Garner motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.
- **“Overcome Pitfalls & Collect High Quality Data Using GPS/GNSS, one hour and 30 minutes (1.5), March 14, 2014.** The instructor was Chase Fly, Electornic Data Solutions. (This class was also offered at the IWGA 2014 Convention January 29 and 30, 2014 in Boise, Idaho); Greg McInnis motioned to assign **one and one-half (1.5) CEC**, Warren McCann seconded. The vote was all in favor.
- **“Idaho’s Rules & Regulations for Well Drilling”, one 1) hour, March 14, 2014.** The instructor was Tom Neace, Idaho Department of Water Resources. Warren McCann motioned to assign **zero (0) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“Round Table Discussion”, one (1) hour, March 14, 2014.** The instructors were Tom Neace, Manager, Ground Water Protection Section, Idaho Department of Water Resources; Dave Adamson, Eric Forsmann, Tony Hackett, Drilling Industry. Greg McInnis motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.

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The Cont. Ed. Committee reviewed the **2014 Pacific Northwest Ground Water Exposition**” sponsored by National Ground Water Association, March 28 and 29, 2014. The courses reviewed are as follows:

- **“Water Systems Primer and Refresher seven hours (7), March 28, 2014.** The instructors were Chris Preston, Product Design Engineer and Product Manager for Xylem (formerly ITT); Alan Bixler, Product Specialist for Submersible Water Pump Systems for Grundfos Pumps North American Region; Kyle Lanier, Franklin Electric; Jim Hartmann, Franklin Electric; Wind Evans, Flexcon Industries, Angela Garner motioned to assign **three and one-half (3.5) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“Large Ground Water Heat Pump Systems: Costs, Benefits, and Pitfalls Groundwater Geothermal Heat Pumps”, one (1) hour, March 28, 2014.** The instructor was Kevin Rafferty, P.E., Angela Garner motioned to assign **one (1) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“Federal OSHA Update for the Groundwater Industry”, one (1) hour, March 28, 2014.** The Instructor was Abe Mutawe, OSHA Compliance Safety and Health Officer, Warren McCann motioned to assign **one (1) CEC in safety category**, Greg McInnis seconded. The vote was all in favor.

- **“Guidelines for the Vertical Borehole Construction for Closed Loop Heat Pump Systems”**, Kevin B. McCray, CAE, CEO, National Ground Water Association, Greg McInnis motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.
- **“Pumping Tests Are Not About Water - They Are About Information” one (1) hour, March 28, 2014.** The Instructor was F. Michael Krautkramer LHG RG CPG – Robinson Noble Inc., Greg McInnis motioned to assign **one (1) CEC**, Angela Garner seconded. The vote was all in favor.
- **“Strategic Planning for Association Leaders and Future Leaders”**, one (1) hour, **March 28, 2014.** The instructor was Kevin B. McCray, CAE, CEO – National Ground Water Association. Greg McInnis motioned to assign **one (1) CEC**, Angela Garner seconded. The vote was all in favor. Warren McCann motioned to assign **zero (0) CEC**, **Greg McInnis seconded. The vote was all in favor.**
- **“Washington Well Construction Code Requirements”**, two (2) hours, **March 28, 2014.** The Instructor was William E. Lum II, Licensed Geologist/Licensed Hydrogeologist, Washington Department of Ecology. Greg McInnis motioned to assign **zero (0) CEC**, Angela Garner seconded. The vote was all in favor.
- **“Living on the Edge: The Tortured Hydrogeology of the Pacific Northwest Region**, two (2) hours, **March 28, 2014.** The Instructor was W. Todd Jarvis, PhD., Angela Garner motioned to assign **two (2) CEC’s**, Greg McInnis seconded. The vote was all in favor.
- **“Issues (Legislative and Membership) Update in the Pacific Northwest States”**, one (1) hour, **March 28, 2014.** Presenters: State officers from Alaska, Idaho, Oregon, and Washington, Greg McInnis motioned to assign **one (1) CEC**, Warren McCann seconded. The vote was all in favor.
- **“Effective Grouting and Sealing Practices”**, one (1) hour, **March 28, 2014.** The Instructor was Bob Oliver, Regional Manager – CETCO’S Drilling Products Group, Warren McCann motioned to assign **one (1) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“Arsenic, Iron, Manganese and Hydrogen Sulfide: What To Do When Standard Solutions Don’t Work”**, one (1) hour, **March 28, 2014.** The instructor was Todd Krause, P.E., registered in Washington and Oregon; currently sits on Washington State Department of Ecology’s Technical Advisory Group for Well Construction. Greg McInnis motioned to assign **one (1) CEC**, Angela Garner seconded. The vote was all in favor.
- **“Educating Your Customer”**, one (1) hour, **March 29, 2014.** The instructor was Ken McCray, CAE, National Ground Water Association, Greg McInnis motioned to assign **one (1) CEC**, Warren McCann seconded. The vote was all in favor.
- **”Impacts of Stormwater Permitting on the Groundwater Industry”**, one (1) hour, **March 29, 2014.** The instructor was Lisa Cox, Municipal Stormwater Manager – Washington Department of Ecology, Greg McInnis motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.
- **“Exempt Wells: Impacts to Our Industry”**, one (1) hour, **March 29, 2014.** The instructors were Jeremy Bach, Bach Well Drilling; F. Michael Krautkramer, LHG,

RG, CPG – Robinson Noble Inc. Angela Garner motioned to assign **one (1) CEC**, Greg McInnis seconded. The vote was all in favor.

- **“Roundtable Discussion: The Groundwater Industry’s Greatest Challenge”, one (1) hour, March 29, 2014.** The Presenter was Kathy Butcher, CMP, National Ground Water Association, Angela Garner motioned to assign **one (1) CEC**, Greg McInnis seconded. The vote was all in favor.
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The Cont. Ed. Committee reviewed the **“NDA Groundwater Knowledge Certification”** course sponsored by the **National Drilling Association (NDA)**. Note: McCann is on the board of the NDA. This is an **online course**, designed to take an average of four hours. Greg McInnis motioned to assign **four (4) CECs**, Joel Jeffery seconded. The vote was all in favor.

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The Cont. Ed. Committee reviewed the **“NDA Monitor Well Construction Certification”** course sponsored by the **National Drilling Association (NDA)**. Note: McCann is on the board of the NDA. This is an **online course**, designed to take an average of six hours. Angela Garner motioned to assign **six (6) CECs**, Joel Jeffery seconded. The vote was all in favor.

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The Cont. Ed. Committee reviewed the **“NDA Drilling Safety Certification”** course sponsored by the **NDA**. Note: McCann is on the board of the NDA. This is an **online course**, designed to take an average of three hours. Greg McInnis motioned to assign **three (3) CECs in the safety category**, Joel Jeffery seconded. The vote was all in favor.

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The Cont. Ed. Committee reviewed the **“Winter Training, 2014” Exhibition**, course sponsored by **Mitchell Lewis & Staver, and Pentair Water Tech**, **twelve (12) hours**. This was a two day course, held in Wilsonville, Oregon (OR), **February 18 and 19, 2014**. The presenter was Bill Corey, Wisconsin Gas and Oil Hydraulic Inc., Wicor Inc., Pentair Water Tech.

- **“Basic Hydraulics and Electrical Overview”, one (1) hour, February 18, 2014**, Greg McInnis motioned to assign **one-half (0.5) CEC**, Joel Jeffery seconded. The vote was all in favor.
- **“Pump Curve Analysis and Interpretation”, forty-five (45) minutes, February 18, 2014**, Greg McInnis motioned to assign **zero (0) CEC**, Angela Garner seconded. The vote was all in favor.
- **“Motors and Controls”, one (1) hour, February 18, 2014**, Angela Garner motioned to assign **one-half (0.5) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“Pentek Intellidrive Intro, Quick Start, February 18, 2014, thirty (30) minutes**, Angela Garner motioned to assign **zero (0) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“Intellidrive Programming, February 18, 2014, seventy-five minutes, (1.25) hour**, Angela Garner motioned to assign **one-half (0.5) CEC**, Greg McInnis seconded. The

vote was all in favor.

- **“Questions/Review”, February 18, 2014, thirty minutes (0.5) hour**, Greg McInnis motioned to assign **zero (0) CEC**, Angela Garner seconded. The vote was all in favor.
- **“Submersible Turbine Product and Applications”, February 19, 2014**, Angela Garner motioned to assign **one-half (0.5) CEC**, Joel Jeffery seconded. The vote was all in favor.
- **“Centrifugal Product and Applications”, February 19, 2014, seventy-five minutes, (1.25) hour**, Greg McInnis motioned to assign **one-half (0.5) CEC**, Angela Garner seconded. The vote was all in favor.
- **“Review, Certificates, February 19, 2014**, Joel Jeffery motioned to assign **zero (0) CEC**, Greg McInnis seconded. The vote was all in favor.

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The Cont. Ed. Committee reviewed courses offered by **American Ground Water Trust, Concord, New Hampshire (NH)**, **“Geothermal Heating and Cooling Innovations: Design, Financing and Regulation Event, May 7, 2014, in Seattle, Washington (WA)**. The courses were reviewed as follows:

- **“Resource Sustainability and Geothermal Heating and Cooling Concepts”, thirty (30) minutes, May 7, 2014**. The instructor is Garret Graaskamp, PG, AI, Hydrogeologist, American Ground Water Trust, Greg McInnis motioned to assign **one-half (0.5) CEC**, Joel Jeffery seconded. The vote was all in favor.
- **“Status of the Geothermal Industry” forty (40) minutes, May 7, 2014**. The instructor is Ted Clutter, Manager Outreach and Member Services, Geothermal Exchange Organization, Washington DC, Joel Jeffery motioned to assign **one-half (0.5) CEC**, Angela Garner seconded. The vote was all in favor.
- **“Utility and Alternative Financing of Geothermal Installations” forty (40) minutes, May 7, 2014**. The instructor is David Neale, VP Marketing and Business Development, EnergyWise Partners LLC. Angela Garner motioned to assign **one-half (0.5) CEC**, Joel Jeffery seconded. The vote was all in favor.
- **“Net-Zero Design Principles” forty (40) minutes, May 7, 2014**. The instructor is Paul Bony, Director of Residential Market Development, ClimateMaster, Montrose CO., Angela Garner motioned to assign **one-half (0.5) CEC**, Joel Jeffery seconded. The vote was all in favor.
- **“More than a Hole in the Ground” - Drilling Techniques – Logistics and Grout, forty (40) minutes, May 7, 2014**. The instructor is Kirby Donald, Baroid IDP, Castle Rock, WA. Angela Garner motioned to assign **one-half (0.5) CECs**, Greg McInnis seconded. The vote was all in favor.
- **“GHP HVAC Design with variable Frequency Drive Compressor Geothermal Heat Pumps – Special Considerations, thirty (30) minutes, May 7, 2014**. The instructor is Mike Springer, Texas Territory Sales Manager, WaterFurnace International, Southlake, TX. Joel Jeffery motioned to assign **one-half (0.5) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“Geothermal System Optimization Using Computer –Aided Design, forty (40) minutes, May 7, 2014**. The instructor is Dan Bernstein, President, GAIA

Geothermal, Mountain View, CA. Angela Garner motioned to assign **one-half (0.5) CEC**, Joel Jeffery seconded. The vote was all in favor.

- **“Remediation of a Closed Loop Geothermal Field Using Open Loop Methods, forty (40) minutes, May 7, 2014.** The instructor is Jay Egg, CMC, President, Egg Geothermal, Tampa, FL. Greg McInnis motioned to assign **one-half (0.5) CEC**, Angela Garner seconded. The vote was all in favor.
- **“Designing Ground Loop HVAC Systems – Pump Energy Optimization Using Variable Frequency Drives, forty (40) minutes, May 7, 2014.** The instructor is Trey Austin III, PE, CGD, President/CEO, Research Engineer, Geo-Energy Services, LLC, Centennial, CO. Joel Jeffery motioned to assign **one-half (0.5) CEC**, Angela Garner seconded. The vote was all in favor.
- **“Successful Integration of Geothermal Heat Pump HVAC Systems into Commercial Design-Build Projects, forty (40) minutes, May 7, 2014.** The instructor is Trey Austin III, PE, CDG, President/Ceo, Research Engineer, Geo-Energy Services, LLC, Centennial, CO. Angela Garner motioned to assign **one – half (0.5) CEC**, Joel Jeffery seconded. The vote was all in favor.
- **“The Good the Bad and the Ugly – What We Have Learned From 40 Years of GHEX-HVAC Projects?”, forty (40) minutes, May 7, 2014.** The instructor is John Geyer, CGD, President, John Geyer & Associates, Inc., Vancouver, WA. Angela Garner motioned to assign **one-half (0.5) CEC**, Angela Garner seconded. The vote was all in favor.

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The Cont. Ed. Committee reviewed **“Oregon OSHA 2014 Credit Classes”**. These are a mix of **online classes** and on site course classes sponsored by **Oregon OSHA Public Education**. Some courses will expire in 2015; the OSHA Program Specialist submitted a list of every class OSHA offers, pointing out that not all OSHA classes are offered every year; acknowledging that some classes may not be eligible for credits, so that application for the courses may be applied for every two years. **The Continuing Education Committee voted not assign credits to Oregon OSHA 2014 Credit Classes” at this time.** Initially, Greg McInnis motioned to assign the same credits as had been previously assigned for the OSHA courses. **Not all the Committee agreed with the motion.** Angela Garner motioned to designate a person(s) to review the courses to see if they are still valid. Joel Jeffery seconded. **The vote is as follows: Joel – “aye”, Angela – “aye”, Warren – “aye”, Greg – “nay”.**

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The Cont Ed. Committee reviewed **Online courses offered by International School of Well Drilling; John Mastropietro, Course Developer and Instructor.** The courses reviewed are as follows:

- **Injection Wells”, two (2) hours, International School of Well Drilling, Continuous Online Course.** Greg McInnis motioned to assign **one and one-half (1.5) CECs**, Angela Garner seconded. The vote was all in favor.
- **“Pumps 401”, one (1) hour, Pentair Corporation, used by International School of Well Drilling with their permission, Continuous Online Course.** Greg McInnis motioned to assign **one-half (0.5) CECs**, Joel Jeffery seconded. The vote was all in

favor.

- **“Drilling Safety” one (1) hour, International School of Well Drilling, Continuous Online Course.** Warren McCann motioned to assign **one (1) CEC in the safety category**, Joel Jeffery seconded. The vote was all in favor.
  - **“Geothermal and Cooling Systems I”, one (1) hour, International School of Well Drilling, Continuous Online Course.** Greg McInnis motioned to assign **one (1) CEC**, Angela Garner seconded. The vote was all in favor.
  - **“Geothermal and Cooling Systems II”, one (1) hour, International School of Well Drilling, Continuous Online Course.** Angela Garner motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.
  - **“Well Rehabilitation Introduction Part I”, one (1) hour, created by TDLR Provider 1472, International School of Well Drilling, Continuous Online Course.** Joel Jeffery motioned to assign **one (1) CEC**, Angela Garner seconded. The vote was all in favor.
  - **“Well Rehabilitation Introduction Part II”, one (1) hour, International School of Well Drilling, Continuous Online Course.** Joel Jeffery motioned to assign **one (1) CEC**, Greg McInnis seconded. The vote was all in favor.
  - **“Aquifer Storage Recovery”, one (1) hour, International School of Well Drilling, Continuous Online Course.** Angela Garner motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.
  - **“Basic Geology and Groundwater, one (1) hour, International School of Well Drilling, Continuous Online Course.** Angela Garner motioned to assign **one (1) CEC**, (seconded. The vote was all in favor.
  - **“Well Abandonment”, one (1) hour, International School of Well Drilling, Continuous Online Course.** Greg McInnis motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.
  - **“Well Construction History”, one (1) hour, International School of Well Drilling, Continuous Online Course.** Greg McInnis motioned to assign **one (1) CEC**, Warren McCann seconded. The vote was all in favor.
  - **“Drilling Methods”, two (2) hours, International School of Well Drilling, Continuous Online Course.** Angela Garner motioned to assign **two (2) CECs**, Warren McCann seconded. The vote was all in favor.
  - **“Well Development”, one (1) hour, International School of Well Drilling, Continuous Online Course.** Greg McInnis motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.
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#### D) Review of Documentation

**Jim Biffle #1946**, submitted:

The following courses offered by **Mountain States Groundwater Expo, in Laughlin, Nevada (NV), February 6, 2014.**

- **“Update on Legal Issues Impacting the Water Well Industry – Exempt Wells and More!”, one hour (1), February 7, 2014.** The instructor was Jesse J. Richardson, Jr, Lead Land Use Attorney, West Virginia University College of Law. Greg McInnis



motioned to assign **one (1) CEC**, Warren McCann seconded. The vote was all in favor.

- **“Hydraulic Fracking – Water Well vs Oil & Gas”, one (1) hour, February 6, 2014.** The instructor was Fred Roghauge, Mgr, Corp. Business Development Hydro Resources. Joel Jeffery motioned to assign **one (1) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“Wire Rope, Chains, Synthetics, etc.”, one (1) hour, February 7, 2014.** The instructor was Don Detlefsen, Assistant Manager, Industrial and Mine Supply Co. Greg McInnis motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.
- **“Well Development and Rehabilitation and the Impact on Well Efficiency and Water Quality, Part 1 of 2”, one (1) hour; February 6, 2014; hour, February 6, 2014.** The instructors were Edd Schofield, Bilfinger – Johnson Screens, and Mike Schnieders, Water Systems Engineering, Inc. Angela Garner motioned to assign **one (1) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“Well Development and Rehabilitation and the Impact on Well Efficiency and Water Quality, Part 2 of 2”, one (1) hour, February 6, 2014,** Angela Garner motioned to assign **one (1) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“Arsenic Removal from Groundwater”, one (1) hour, February 6, 2014.** The instructor was Jim Pardini, P>E>, Isolux Technologies Div MEI Chemicals Inc. Greg McInnis motioned to assign **one (1) CEC**, Angela Garner seconded. The vote was all in favor.
- **“Drilling in Reactive Clay”, one (1) hour, February 6, 2014.** The instructor was Jim Piesecki, Southwest Region Manager, CETCO. Angela Garner motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.
- **“DOT Compliance in the Drilling and Pump Service Industry”, one (1) hour, February 6, 2014.** The instructor was Jim Wright, Compliance Manager, National Exploration, Wells & Pumps. Warren McCann motioned to assign **one (1) CEC**, Joe Jeffery seconded. The vote was all in favor.
- **“Submersible Pump Design and Operation”, one (1) hour, February 7, 2014.** The instructor Todd Hofstra, Field Service Engineer, Franklin Electric. Angela Garner motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.
- **“Making Drill Units More Efficient”, one (1) hour, February 7, 2014.** The instructor was Fred McAninch, The Rig Doctors. Greg McInnis motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.
- **“Submersible Pump Design and Operation”, one (1) hour, February 7, 2014.** The instructor was Todd Hofstra, Franklin Electric. Angela Garner motioned to assign **one and one-half (0.5) CEC**, Greg McInnis seconded. The vote was all in favor.
- **“Critical Maintenance Techniques That Can Extend the Life of Drilling Equipment”, one (1) hour, February 7, 2014.** The instructor was Fred McAninch, The Rig Doctors. Joel Jeffery motioned to assign **one (1) CEC**, Greg McInnis seconded. The vote was all in favor.

**Robert Miller #10230**, submitted:

- **“G5714: Advanced Engineering Geology, Case Histories in Environmental and Engineering Geology, Hydrogeology, and Environmental and Geotechnical**

**Engineering ”, one (1) hour, Portland State University, Spring Quarter 2013, April 1, 2013; “Introduction to the Course” & Geologic Provinces in Oregon”,** The instructor was Scott Burns, Geology Dept., Portland State University.

Greg McInnis motioned to assign **one (1) CEC**, Joel Jeffery seconded. The vote was all in favor.

- **“Prevailing Wage Rate Seminar”, two separate three (3) hour seminars**, courses sponsored by **Oregon Bureau of Labor and Industries, April 30, 2013, and April 1, 2014.** The instructor for both dates was Susan Wooley, PWR Technical Assistance Coordinator Wage and Hour Division, Portland, OR. Greg McInnis motioned to assign **three (3) CECs, for each three hour seminar**, Angela Garner seconded. The vote was all in favor.
- **“Environmental Cleanup of a Major Truck Stop, Portland, OR”, one (1) hour, Portland State University, April 29, 2013.** The presenter was Robert Miller. Angela Garner motioned to assign **two (2) CECs** Greg McInnis seconded. The vote was all in favor.

**Steve Schneider #649, Kriss Schneider #1578, Jim Thompson # 1367, Ryan Smith #1927, and Pat Ivers #1797,** all from Schneider Water Services, submitted:

- **“Occupations Safety Training on Qualified Rigger Level 1 and Qualified Signal Person – OSHA 1926 Subpart CC., held November 26, 2013.** The instructor was Clint Von Aushall? (No other documentation provided other than the photo copies of the cards – requested more on 4/16/2014). **At this time the Continuing Education Committee agreed that more information/data would be needed before any credits could be assigned.** The vote to wait for more information was all in favor.

**Michael Wright # 1452,** submitted:

- **“Welding Certification”, sponsored by Klamath Community College, January 14 through March 20, 2014.** This course consisted of **three (3) hours per class, two (2) days per week for ten (10) weeks for a total of 60 hours.** Greg McInnis motioned to assign **sixty (60) CEC’s, (one credit per hour of class/course)**, Angela Garner seconded. The vote was all in favor.
- **“ASE” (Automotive Service Excellence) Certification Status”,** according to ASE, he has earned a certificate for **“Medium /Heavy Truck Technician”, August 7, 2013.** The Continuing Education Committee decided that Michael hadn’t submitted enough information about the course to assign credit(s). The vote was all in favor.

**Matthew Van Bergen, #10478,** submitted:

- **“MSHA (Mine Safety and Health Administration) Part 46 Annual Refresher Training”, eight (8) hours, January 30, 2014.** The instructor was Ed Sinner, OMSHTP (Oregon Mine Safety and Health Training Program) LLC, La Grande, Oregon (OR). Greg McInnis motioned to assign **eight (8) CECs**, Angela Garner seconded. **(Note – after checking with Tracy Fox, this type of course/refresher has historically been awarded 4 credits).**

**Anisa Harnden #10486, and Donald Harnden # 10487,** submitted:

Courses offered by **Washington State Department of Labor & Industries, Free Training for Construction Contractors in Tumwater, Washington (WA), February 7, 2014.**

- **“Preparing Contracts”, one (1) hour and fifty-five (55) minutes, February 7, 2014.** Greg McInnis motioned to assign two (2) CECs, Joel Jeffery seconded. The vote was all in favor.
- **“Effective Marketing”, two (2) hours, February 7, 2014.** Angela Garner motioned to assign two (2) CECs, Joel Jeffery seconded. The vote was all in favor.
- **“Protecting Your Business and Customer”, fifty-five (55) minutes, February 7, 2014.** Greg McInnis motioned to assign one (1) CEC, Warren McCann seconded. The vote was all in favor.
- **“Managing the Difficult Customer”, one (1) hour and twenty-five (25) minutes, February 7, 2014.** Joel Jeffery motioned to assign one (1) CEC, Greg McInnis seconded. The vote was all in favor.
- **“Common Legal Issues for Contractors”, one (1) hour and twenty-five (25) minutes, February 7, 2014.** Angela Garner motioned to assign one (1) CEC, Joel Jeffery seconded. The vote as all in favor.

**Bradley Wieberdink #10076** submitted:

- **“ODOT Traffic Control Flagger Class Training Course”, approx. four (4) hours?, Tigard, Oregon (OR).** The instructor was Shari Steinbichler, ODOT Traffic Control Certifications. Angela Garner motioned to assign **four (4) CECs**, Greg McInnis seconded. The vote was al in favor.

E) Public Comment

**Eric Bakken #1913** submitted a comment/complaint regarding the **online course**

- **“Monitoring Well Construction Exam”, six (6) hours**, offered by **National Drilling Association**. Copies of the e-mails from Bakken to Tracy Fox about this given to Committee Members.

F) Future Meeting

TBD

Adjourned at 12:51 p.m.