# MINUTES Well Constructor Continuing Education Committee Tuesday, June 15, 2010

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

### A) Cont. Ed. Committee Meeting Minutes

The revised draft minutes from the February 9, 2010, meeting were reviewed. McInnis motioned to approve the revised draft minutes as is, Daugherty seconded. The vote was all in favor.

## B) Other Issues

Staff informed Cont. Ed. Committee members that Michael Waldroop's term expires on June 30, 2010. Mr. Waldroop has served two terms on the Continuing Education Committee. The Department received a letter of interest from one individual expressing interest in serving on the Cont. Ed. Committee in the active driller slot. The Director will appoint an individual to fill the vacancy before June 30, 2010. Kris Byrd, serving as a member of the regulatory community, was re-appointed by the Director for another term on the Cont. Ed. Committee.

# C) Review of Applications

The Cont. Ed. Committee reviewed the course application for "Well Driller Rigging Safety" eight (8) hours, submitted by EnergX LLC. The class is held as requested and location can vary. The instructors are Samuel Orona, Allen Morris, and Charles B. Dean. Byrd motioned to assign eight (8) CECs in the safety/first aid/CPR category, Daugherty seconded. The vote was all in favor.

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The Cont. Ed. Committee reviewed the following course applications as part of the **American Ground Water Trust's "Geothermal Vertical Loop Installer Course**" held **May 11 and 12, 2010**, in **Portland, Oregon** (OR). The course is taught by Dave Pergel, ClimateMaster. The courses were reviewed as follows:

- Day 1:
  - "Introduction to the Geothermal Industry" 30 minutes. McInnis motioned to assign 0.5 CEC, Byrd seconded. The vote was all in favor.
  - "Geothermal Heat Pump System" two (2) hours 45 minutes. McInnis motioned to assign three (3) CECs, Byrd seconded. The vote was all in favor.
  - "Computer Driven System Design" 30 minutes. Daugherty motioned to assign 0.5 CEC, McInnis seconded. The vote was all in favor.
  - "Geothermal Closed Loop Design" three (3) hours. McInnis motioned to assign three (3) CECs, Daugherty seconded. The vote was all in favor.
  - "Grouting" one (1) hour. McInnis motioned to assign one (1) CEC,

Byrd seconded. The vote was all in favor.

- **"Wrap-Up Summary" 15 minutes.** McInnis motioned **not to assign CEC**, Byrd seconded. The vote was all in favor.
- **Day 2:** 
  - "Site Survey" 30 minutes. Byrd motioned to assign 0.5 CEC, Daugherty seconded. The vote was all in favor.
  - **"Flushing the Earth Loop" one (1) hour 30 minutes**. Byrd motioned to assign **1.5 CEC**, Daugherty seconded. The vote was all in favor.
  - **"Loop Design" 45 minutes**. McInnis motioned to assign **0.5 CEC**, Byrd seconded. The vote was all in favor.
  - "Vertical Loop Installer Test" one (1) hour 15 minutes. Discussion: there was a lot of discussion regarding assigning CEC to tests. It touched on tests as part of a course, or just a test, what has been done previously, setting a precedent, the test as part of an online course, learning done while taking a test. In the end the Cont. Ed. Committee agreed to assign CECs in this case where the test is part of a course. Byrd motioned to assign 1.5 CECs, McInnis seconded. The vote was all in favor.
  - "Socket Fusion and Socket Fusion Testing" three (3) hours 30 minutes. Byrd motioned to assign 3.5 CECs, McInnis seconded. The vote was all in favor.
  - **"Wrap-Up Summary" 15 minutes**. McInnis motioned **not to assign CEC**, Daugherty seconded. The vote was all in favor.
  - The Certificate of Completion for the "Geothermal Vertical Loop Installer Course". Byrd motioned to assign 16 CECs, McInnis seconded. The vote was all in favor.

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The Cont. Ed. Committee reviewed the course application for the "Geothermal/CEC Idaho" class (United University) sponsored by United Pipe & Supply. It was held February 16, 2010, in Idaho Falls, Idaho (ID) and February 17, 2010, in Boise, ID. There was eight (8) hours of instruction time, one hour and 30 minutes being IDWR Rules and Regs. Daugherty motioned to assign 6.5 CECs, Byrd seconded. The vote was all in favor.

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The Cont. Ed. Committee reviewed the course application for the "Oxygen Fuel Safety" class, one (1) hour 30 minutes, sponsored by Cascade Drilling LP. It was held March 20, 2010, in Clackamas, OR. The instructor was Joe Bailey, AirGas. Byrd motioned to assign 1.5 CECs in the safety/first aid/CPR category, Daugherty seconded. The vote was all in favor.

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The Cont. Ed. Committee reviewed the following course applications as part of the "Intermountain Expo" held April 9-10, 2010, in Boise, ID. The expo was sponsored by Robertson Supply Inc. The courses were reviewed as follows:

o "Troubleshooting 4" & 6" Submersible Motors" one (1) hour. The instructor

was Nick Larabee, Grundfos Pumps. Daugherty motioned to assign **0.5 CEC**, McInnis seconded. The vote was all in favor.

- **"Determining Your Grout Selection" one (1) hour**. The instructor was Stuart Krause, WyoBen. Byrd motioned to assign **one (1) CEC**, Daugherty seconded. The vote was all in favor.
- **"Water Pro Meeting" one (1) hour**. The instructors were Greg Luck, Grundfos Pumps and Jason Meade, RSN. Daugherty motioned to assign **0.5 CEC**, Byrd seconded. The vote was all in favor.

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

- "Using Quick Books" one (1) hour, February 19, 2010. The instructor was K.
  C. Courtnier, 2<sup>nd</sup> Site Business Solutions. Byrd motioned to assign one (1) CEC, McInnis seconded. The vote was all in favor.
- **"Troubleshooting Water Systems" one (1) hour, February 20, 2010.** The instructors were Jay Hoiland and Scott Christie, ITT Goulds. Daugherty motioned to assign **0.5 CEC, Byrd seconded.** The vote was all in favor.
- "Well Construction Challenges: The Job That Drove Me Crazy" one (1) hour 30 minutes, February 19, 2010. The instructors were Scott Fowler, Dahlman Pump & Well Drilling Inc. and Paul Anderson, Anderson Drilling Co. McInnis motioned to assign 1.5 CECs, Byrd seconded. The vote was all in favor.
- "What's New in the Pacific Northwest Groundwater Arena Panel" one (1) hour 30 minutes, February 20, 2010. The panel consisted of Paul Anderson, Anderson Drilling Co.; Jerry Schmidt, Oregon Water Consultants; Wayne Westberg, M W Drilling Inc. and John Stadeli, Arrow Drilling. Byrd motioned to assign 1.5 CECs, Daugherty seconded. The vote was all in favor.

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The Cont. Ed. Committee reviewed the following course applications as part of the Idaho Ground Water Association's (IGWA) "North Idaho Workshop" held March 5, 2010, in Coeur D'Alene, ID. The courses were reviewed as follows:

- "Price Versus Cost: Do You Know the Difference?" two (2) hours. The instructor was Steve Kaser, Forge Pacific. Byrd motioned to assign two (2) CECs, Daugherty seconded. The vote was all in favor.
- "Contamination Control Fundamentals in Modern Hydraulic and Lube Systems" two (2) hours. The instructor was Dave Granade, Hydac. McInnis motioned to assign two (2) CECs, Daugherty seconded. The vote was all in favor.
- **"IEEE 519 Standards for the Pump Industry" two (2) hours**. The instructor was Kelly Hulse, Idaho Power Company. Discussion: this course had previously been reviewed for a different time period and was not assigned CEC. Staff contacted the sponsor for more information and was informed that this class is state standard based on federal regulation. It is more Idaho specific and is

something Idaho Power Company is developing. Byrd motioned **not to assign CEC**, McInnis seconded. The vote was all in favor.

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The Cont. Ed. Committee reviewed the following course applications as part of the **"Basic Drilling Fluids Workshop"** held **January 10-14, 2010**, in **Houston, Texas (TX)**. The course is sponsored by **Baroid IDP** and offered once or twice a year.

- **Day 1:** 
  - "Workshop Introduction and Overview" one (1) hour. McInnis motioned to assign one (1) CEC, Byrd seconded. The vote was all in favor.
  - "Clays" one (1) hour. Daugherty motioned to assign one (1) CEC, McInnis seconded. The vote was all in favor.
  - "Properties, Testing and Principals of Basic Drilling Fluids" two (2) hours. McInnis motioned to assign two (2) CECs, Byrd seconded. The vote was all in favor.
  - "Summary of Laboratory I" 30 minutes. Daugherty motioned to assign 0.5 CEC, McInnis seconded. The vote was all in favor.
  - "Laboratory Exercise I" one (1) hour 30 minutes. Byrd motioned to assign 1.5 CECs, Daugherty seconded. The vote was all in favor.
  - "Summary and Discussion of Laboratory Results" 30 minutes. Daugherty motioned to assign 0.5 CEC, McInnis seconded. The vote was all in favor.
  - "Q&A/Discussion" 30 minutes. McInnis motioned to assign 0.5 CEC, Daugherty seconded. The vote was all in favor.
  - **"BBQ" two (2) hours 30 minutes.** Byrd motioned **not to assign CEC**, Daugherty seconded. The vote was all in favor.
- Day 2:
  - "Mixing and Handling of Drilling Fluids" one (1) hour 30 minutes. Byrd motioned to assign 1.5 CECs, Daugherty seconded. The vote was all in favor.
  - "Contaminants & Effect On Drilling Fluid and Drilling Fluid Additives" one (1) hour. McInnis motioned to assign one (1) CEC, Byrd seconded. The vote was all in favor.
  - "Drilling Fluid Maintenance and Solids Control" one (1) hour 30 minutes. Daugherty motioned to assign 1.5 CECs, Byrd seconded. The vote was all in favor.
  - "Laboratory Tour" one (1) hour 30 minutes. McInnis motioned to assign 1.5 CECs, Daugherty seconded. The vote was all in favor.
  - "Laboratory II Introduction" 30 minutes. McInnis motioned to assign 0.5 CEC, Daugherty seconded. The vote was all in favor.
  - "Laboratory II Exercise" one (1) hour 45 minutes. Byrd motioned to assign two (2) CECs, McInnis seconded. The vote was all in favor.

- "Summary and Discussion of Laboratory II Results" 30 minutes. Daugherty motioned to assign 0.5 CEC, McInnis seconded. The vote was all in favor.
- "Q&A/Discussion" 30 minutes. McInnis motioned to assign 0.5 CEC, Byrd seconded. The vote was all in favor.
- **Day 3**:
  - **"Polymers" two (2) hours.** McInnis motioned to assign **two (2) CECs**, Daugherty seconded. The vote was all in favor.
  - "Effective Sealing Operations (Bentonite & Cement)" two (2) hours. Byrd motioned to assign two (2) CECs, Daugherty seconded. The vote was all in favor.
  - "Laboratory III Introduction" 30 minutes. McInnis motioned to assign 0.5 CEC, Daugherty seconded. The vote was all in favor.
  - "Laboratory III Exercise" two (2) hours. McInnis motioned to assign two (2) CECs, Daugherty seconded. The vote was all in favor.
  - **"Summary and Discussion of Laboratory III Results" 15 minutes.** Byrd motioned **not to assign CEC**, Daugherty seconded. The vote was all in favor.
  - "Q&A/Discussion" 30 minutes. McInnis motioned to assign 0.5 CEC, Byrd seconded. The vote was all in favor.
  - "Evening Laboratory" two (2) hours 15 minutes. Daugherty motioned to assign two (2) CECs, McInnis seconded. The vote was all in favor.
- Day 4:
  - "Applications of Air Drilling Techniques" one (1) hour 30 minutes. McInnis motioned to assign 1.5 CECs, Daugherty seconded. The vote was all in favor.
  - "Loss of Circulation" one (1) hour. Byrd motioned to assign one (1) CEC, McInnis seconded. The vote was all in favor.
  - "Summary of Baroid IDP Products and Systems" one (1) hour 30 minutes. Daugherty motioned to assign 1.5 CECs, Byrd seconded. The vote was all in favor.
  - **"Product Application To Field Drilling Conditions" one** (1) hour 15 **minutes.** McInnis motioned to assign **1.5 CECs**, Byrd seconded. The vote was all in favor.
  - "Grouting Techniques" one (1) hour. Byrd motioned to assign one (1) CEC, Daugherty seconded. The vote was all in favor.
  - "Well Development & Chlorination" one (1) hour. McInnis motioned to assign one (1) CEC, Byrd seconded. The vote was all in favor.
  - "Q&A/Discussion" 30 minutes. Daugherty motioned to assign 0.5 CEC, McInnis seconded. The vote was all in favor.
- **Day 5:** 
  - "Well Rehabilitation" one (1) hour 45 minutes. Byrd motioned to assign two (2) CECs, Daugherty seconded. The vote was all in favor.

- "Customer Feedback Forum" 45 minutes. McInnis motioned to assign 0.5 CEC, Byrd seconded. The vote was all in favor.
- "Course Test & Evaluations" 30 minutes. Daugherty motioned to assign 0.5 CEC, Byrd seconded. The vote was all in favor.
- **"Workshop Summary" 15 minutes.** Byrd motioned **not to assign CEC**, Daugherty seconded. The vote was all in favor.
- **"Presentation of Certificates & Workshop Adjournment" 15 minutes.** Daugherty motioned **not to assign CEC**, McInnis seconded. The vote was all in favor.

# D) Review of Documentation

Rodney LaBrosse, Sr, #10329, submitted:

Documentation for a "Pendant Overhead & Service Truck Crane Operator" course sponsored by OVERTON Safety Training, Inc. LaBrosse took the eight (8) hour course February 28, 2009. McInnis motioned to assign eight (8) CECs in the safety/first aid/CPR category, Byrd seconded. The vote was all in favor.

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#### Donald Larson, #10432, submitted:

Documentation for a **"The Future of Oregon's Water Supply & Management"** course sponsored by **The Seminar Group** held **February 18, 2010, in Portland, OR**. The course was reviewed as follows:

- **"Introduction, Overview and Welcome" 15 minutes,** by Ryland Moore and Harry Seely, WestWater Research LLC. Byrd motioned **not to assign CEC**, Daugherty seconded. The vote was all in favor.
- "Management of Oregon's Water Supply" 30 minutes. The instructor was Barry Norris, Oregon Water Resources Department. Byrd motioned to assign 0.5 CEC, Daugherty seconded. The vote was all in favor.
- "Supply Management Alternatives" one (1) hour. The instructors were Jeff M. Barry, GSI Water Solutions, Inc. and Harry Seely, WestWater Research LLC. McInnis motioned to assign one (1) CEC, Daugherty seconded. The vote was all in favor.
- "Water Supply Challenges and Opportunities" two (2) hours. The instructors were Adam Sussman, GSI Water Solutions, Inc.; Martha O. Pagel, Schwabe Williamson & Wyatt PC; Steven C. Johnson, Central Oregon Irrigation District; and Joe S. Whitworth, The Freshwater Trust. McInnis motioned to assign two (2) CECs, Daugherty seconded. The vote was all in favor.
- "Oregon's Emerging Technology and Water Needs" one (1) hour. The instructors were Brent L. Searle, Oregon Department of Agriculture and Karen Chase, Oregon Department of Energy. McInnis motioned to assign one (1) CEC, Byrd seconded. The vote was all in favor.
- **"Klamath Basin" one (1) hour 45 minutes.** The instructors were Edward W. Sheets, Ed Sheets Consulting; Hollie Cannon, Klamath Water & Power Agency and Steven Parrett, GoldinWater Water Resource Management. Daugherty

motioned to assign two (2) CECs, McInnis seconded. The vote was all in favor.

• **"Wrap-Up and Questions for the Panel" 15 minutes.** This was a panel. McInnis motioned **not to assign CEC**, Daugherty seconded. The vote was all in favor.

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# Matthew Winfield, #10589, submitted:

Documentation for a "Accredited Geothermal Installer Certification" course sponsored by the HeatSpring Learning Institute held April 7-9, 2009, in Portland, OR. The course was reviewed as follows:

- Day 1:
  - "Registration" 15 minutes. Daugherty motioned not to assign CEC, Byrd seconded. The vote was all in favor.
  - "Introduction and Overview" two (2) hours. McInnis motioned to assign two (2) CECs, Daugherty seconded. The vote was all in favor.
  - "Economics, Marketing and Demand Reduction" one (1) hour 45 minutes. Byrd motioned to assign two (2) CECs, Daugherty seconded. The vote was all in favor.
  - **"Soils Identification, Thermal Conductivity" one** (1) **hour 30 minutes**. McInnis motioned to assign **1.5 CECs**, Daugherty seconded. The vote was all in favor.
  - "Selecting, Sizing and Designing the Heat Pump System" one (1) hour 45 minutes. Daugherty motioned to assign two (2) CECs, Byrd seconded. The vote was all in favor.
  - "Questions & Answers/Review" 30 minutes. Daugherty motioned to assign 0.5 CEC, McInnis seconded. The vote was all in favor.
- **Day 2:** 
  - "Designing the Ground Heat Exchanger" three (3) hours 45 minutes. McInnis motioned to assign four (4) CECs, Byrd seconded. The vote was all in favor.
  - "Grouting Procedures for Ground-Source Heat Pump Systems" one (1) hour 30 minutes. Byrd motioned to assign 1.5 CECs, Daugherty seconded. The vote was all in favor.
  - "Pipe Joining Methods" 45 minutes. Byrd motioned to assign 0.5 CEC, Daugherty seconded. The vote was all in favor.
  - "Questions & Answers/Review" 30 minutes. Daugherty motioned to assign 0.5 CEC, McInnis seconded. The vote was all in favor.
- **Day 3:** 
  - **"Installation of the Ground Heat Exchanger" one (1) hour 15 minutes.** Byrd motioned to assign **1.5 CECs**, McInnis seconded. The vote was all in favor.
  - **"Flushing and Purging the System" one (1) hour 15 minutes**. Byrd motioned to assign **1.5 CECs**, Daugherty seconded. The vote was all in favor.

- "Heat Pump System Startup and Checkout" one (1) hour 15 minutes. Daugherty motioned to assign 1.5 CECs, Byrd seconded. The vote was all in favor.
- "Certification Test IGSHPA Certification Test" two (2) hours. IGSHPA = International Ground Source Heat Pump Association. Discussion: regarding assigning CEC for test, see also discussion at test as part of Geothermal Vertical Loop Installer Course. Byrd motioned to assign two (2) CECs, McInnis seconded. The vote was all in favor.

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### Armando Soto Santos, #10599, submitted:

Documentation for the "Geothermal Applications" course held February 15-19, 2010, in Houston, TX. The course is sponsored by Baroid IDP and offered once or twice a year.

- Day 1:
  - "Workshop Introduction and Overview" one (1) hour. Byrd motioned to assign one (1) CEC, Daugherty seconded. The vote was all in favor.
  - "Geothermal Basics" one (1) hour. Daugherty motioned to assign one (1) CEC, McInnis seconded. The vote was all in favor.
  - "Clays" one (1) hour. McInnis motioned to assign one (1) CEC, Byrd seconded. The vote was all in favor.
  - "Properties, Testing and Principals of Basic Drilling Fluids" one (1) hour 30 minutes. Daugherty motioned to assign 1.5 CECs, McInnis seconded. The vote was all in favor.
  - "Introduction to Laboratory I" 30 minutes. McInnis motioned to assign 0.5 CEC, Daugherty seconded. The vote was all in favor.
  - "Laboratory Exercise I" one (1) hour 45 minutes. Daugherty motioned to assign two (2) CECs, McInnis seconded. The vote was all in favor.
  - **"Summary and Discussion of Laboratory Results" 30 minutes.** Byrd motioned to assign **0.5 CEC**, McInnis seconded. The vote was all in favor.
  - **"Q&A/Discussion" 15 minutes.** McInnis motioned **not to assign CEC**, Daugherty seconded. The vote was all in favor.
  - **"BBQ" two (2) hours 30 minutes.** Daugherty motioned **not to assign CEC**, Byrd seconded. The vote was all in favor.
- Day 2:
  - **"Polymers" one (1) hour.** Byrd motioned to assign **one (1) CEC**, Daugherty seconded. The vote was all in favor.
  - "Mixing and Handling of Drilling Fluids" one (1) hour. McInnis motioned to assign one (1) CEC, Daugherty seconded. The vote was all in favor.
  - "Drilling Fluid Properties Horizontal vs. Vertical" one (1) hour 15 minutes. McInnis motioned to assign 1.5 CECs, Byrd seconded. The vote was all in favor.

- "Laboratory Tour" one (1) hour 15 minutes. Daugherty motioned to assign 1.5 CECs, Byrd seconded. The vote was all in favor.
- "Laboratory II Introduction" 30 minutes. McInnis motioned to assign 0.5 CEC, Byrd seconded. The vote was all in favor.
- "Laboratory II Exercise" two (2) hours 15 minutes. McInnis motioned to assign 2.5 CECs, Daugherty seconded. The vote was all in favor.
- "Summary and Discussion of Laboratory II Results" 30 minutes. Daugherty motioned to assign 0.5 CEC, McInnis seconded. The vote was all in favor.
- "Q&A/Discussion" 15 minutes. McInnis motioned not to assign CEC, Byrd seconded. The vote was all in favor.
- **Day 3**:
  - "Thermally Conductive Materials" one (1) hour. McInnis motioned to assign one (1) CEC, Daugherty seconded. The vote was all in favor.
  - "Sand" one (1) hour. Daugherty motioned to assign one (1) CEC, McInnis seconded. The vote was all in favor.
  - **"Thermal Conductivity Testing" one (1) hour.** McInnis motioned to assign **one (1) CEC**, Byrd seconded. The vote was all in favor.
  - **"Laboratory III Introduction" 30 minutes.** Byrd motioned to assign **0.5 CEC**, Daugherty seconded. The vote was all in favor.
  - "Laboratory III Exercise" two (2) hours 45 minutes. McInnis motioned to assign three (3) CECs, Byrd seconded. The vote was all in favor.
  - "Summary and Discussion of Laboratory III Results" 30 minutes. Daugherty motioned to assign 0.5 CEC, McInnis seconded. The vote was all in favor.
  - "Q&A/Discussion" 30 minutes. Byrd motioned to assign 0.5 CEC, McInnis seconded. The vote was all in favor.
  - "Fajita Dinner" three (3) hours. Daugherty motioned not to assign CEC, Byrd seconded. The vote was all in favor.
- Day 4:
  - "Geothermal Heat Loop Types" 45 minutes. Daugherty motioned to assign 0.5 CEC, Byrd seconded. The vote was all in favor.
  - "Thermal Grout Selection and Mixing" one (1) hour 15 minutes. Byrd motioned to assign 1.5 CECs, McInnis seconded. The vote was all in favor.
  - "Vertical Grout Placement" one (1) hour. McInnis motioned to assign one (1) CEC, Daugherty seconded. The vote was all in favor.
  - "Horizontal Grout Placement" one (1) hour. McInnis motioned to assign one (1) CEC, Daugherty seconded. The vote was all in favor.
  - "Vadose Zone" one (1) hour. Daugherty motioned to assign one (1) CEC, Byrd seconded. The vote was all in favor.
  - "Specialty Grouts" one (1) hour. McInnis motioned to assign one (1) CEC, Byrd seconded. The vote was all in favor.

- "Q&A/Discussion" 30 minutes. Daugherty motioned to assign 0.5 CEC, McInnis seconded. The vote was all in favor.
- **Day 5:** 
  - "Market Discussion" two (2) hours. Byrd motioned to assign two (2) CECs, Daugherty seconded. The vote was all in favor.
  - "Customer Feedback Forum" 45 minutes. Daugherty motioned to assign 0.5 CEC, McInnis seconded. The vote was all in favor.
  - "Course Test & Evaluations" 30 minutes. Daugherty motioned to assign 0.5 CEC, McInnis seconded. The vote was all in favor.
  - "Workshop Summary" 15 minutes. Byrd motioned not to assign CEC, McInnis seconded. The vote was all in favor.
  - "Presentation of Certificates & Workshop Adjournment" 15 minutes. McInnis motioned not to assign CEC, Daugherty seconded. The vote was all in favor.

#### Robert Miller, #10230, submitted:

Documentation that he made a 55 minute presentation to a G571: Advanced Engineering Geology class at **Portland State University** entitled **"Environmental cleanup of a major truck stop, Portland, OR"** on **May 17, 2010**. McInnis motioned to assign **one** (1) **CEC** to the class, Byrd seconded. The vote was all in favor. Note: as a presenter, Miller will receive double credit.

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Western States Soil Conservation, Inc. submitted documentation for a First Aid/CPR class offered by the American Safety & Health Institute (ASHI). This company has not previously been reviewed by the Cont. Ed. Committee. Daugherty motioned that the eight (8) hour class be assigned eight (8) CECs in the safety/first aid/CPR category and that the four (4) hour class be assigned four (4) CECs in the safety/first aid/CPR category, McInnis seconded. The vote was all in favor.

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## Adam Rogers, #1861, submitted:

Documentation for the following **online classes** sponsored by **C-Stop.** The Cont. Ed. Committee agreed that all of the modules, except as noted, are in the **safety/first aid/CPR category**. The courses were reviewed as follows:

- **"Overhead and Gantry Crane Safety"**. Daugherty motioned to assign **0.5 CEC**, McInnis seconded. The vote was all in favor.
- **"Scaffold Safety"**. McInnis motioned to assign **0.5 CEC**, Byrd seconded. The vote was all in favor.
- **"Asbestos Hazard Awareness"**. McInnis motioned to assign **0.5 CEC**, Daugherty seconded. The vote was all in favor.
- **"Confined Spaces"**. Daugherty motioned to assign **0.5 CEC**, McInnis seconded. The vote was all in favor.
- **"Emergency Response"**. Byrd motioned to assign **0.5 CEC**, McInnis seconded. The vote was all in favor.
- "Excavation, Trenching, and Shoring Safety". Daugherty motioned to assign

0.5 CEC, McInnis seconded. The vote was all in favor.

- **"Fall Protection"**. McInnis motioned to assign **0.5 CEC**, Daugherty seconded. The vote was all in favor.
- **"Lead Awareness"**. McInnis motioned to assign **0.5 CEC**, Byrd seconded. The vote was all in favor.
- **"Personal Protective Equipment"**. Byrd motioned to assign **0.5 CEC**, Daugherty seconded. The vote was all in favor.
- **"Hazard Communication"**. McInnis motioned to assign **0.5 CEC in the hazmat category**, Byrd seconded. The vote was all in favor.
- **"Process Safety Management"**. Byrd motioned to assign **0.5 CEC in the hazmat category**, Daugherty seconded. The vote was all in favor.

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#### Stephen Johnson, #1253, submitted:

Documentation from the Mountain States Ground Water Association meeting held February 11-13, 2010, in Laughlin, NV. The courses were reviewed as follows:

- "Geothermal Loop Installations/Thermally Enhanced Grouts" one (1) hour. The instructor was Jim Piasecki, CETCO. Byrd motioned to assign one (1) CEC, McInnis seconded. The vote was all in favor.
- "Interesting and Little Known Facts About Well Accessories" one (1) hour. The instructor was Jim Mullins, Boshart Industries. McInnis motioned to assign one (1) CEC, Daugherty seconded. The vote was all in favor.
- **"Overburden Drilling" one (1) hour**. The instructor was Virginia Lenox, NUMA. Daugherty motioned to assign **one (1) CEC**, McInnis seconded. The vote was all in favor.
- "Screw Compressor Maintenance, Jobsite Performance and Trouble Shooting" one (1) hour. The instructor was Gerald (Jerry) Pierson, GEFCO, (Retired). Byrd motioned to assign one (1) CEC, Daugherty seconded. The vote was all in favor.
- "Motor Controls and Pump Protection" one (1) hour. The instructor was Bob Pelikan. Daugherty motioned to assign 0.5 CEC, McInnis seconded. The vote was all in favor.
- "Developing Groundwater Replenishment or Recharge Systems" one (1) hour. The instructor was William (Bill) Mann, In-Situ, Inc. McInnis motioned to assign one (1) CEC, Daugherty seconded. The vote was all in favor.
- "Hand Injury Trends, Analysis and Prevention in Drilling and Pump Service Operations" one (1) hour. The instructor was Jim Wright, WDC Exploration & Wells. McInnis motioned to assign one (1) CEC in the safety/first aid/CPR category, Byrd seconded. The vote was all in favor.

Documentation from the **"Three Hour Regulations for Nevada's Water Well and Regulated Drilling Workshop" course three (3) hours** held **June 4, 2010, in Carson City, Nevada**. The instructors were Hamilton Reed, and Todd Alfrey, Nevada Division of Water Resources. McInnis motioned **not to assign CEC**, Byrd seconded. The vote was all in favor. Spencer Vandehey, #10174, submitted:

Documentation from the **"Basic Cone Penetration Testing (CPTU) 1-Day Short Course" held November 11, 2009, in Portland, OR,** sponsored by the **American Society of Civil Engineers (ASCE)**. The course was reviewed as follows:

- "Introduction to Site Characterization, CPTU Equipment and Procedures, and Data Processing, Pore Pressures" one (1) hour 30 minutes. Daugherty motioned to assign 1.5 CECs, McInnis seconded. The vote was all in favor.
- "Seismic Cone: Procedures and Results/ Interpretation of CPT and CPTU Data, VISUAL Classification/Soil Classification (Friction Ratio and Pore Pressure)" two (2) hours. McInnis motioned to assign two (2) CECs, Daugherty seconded. The vote was all in favor.
- "Interpretation of CPT Data (Sand): Relative Density, Friction Angle & Modulus" 30 minutes. Byrd motioned to assign 0.5 CEC, Daugherty seconded. The vote was all in favor.
- "Interpretation of CPT Data (Clay): Undrained Shear Strength, Stress History & Modulus" 30 minutes. Daugherty motioned to assign 0.5 CEC, McInnis seconded. The vote was all in favor.
- "Geo-Environmental Site Characterization: Resistivity Cone, Pore Water Sampling Design Approaches" one (1) hour. McInnis motioned to assign one (1) CEC, Daugherty seconded. The vote was all in favor.
- **"Design Approaches/IBM-PC based CPTU Interpretation Program" one (1) hour**. McInnis motioned to assign **one (1) CEC**, Daugherty seconded. The vote was all in favor.
- **"Demonstration of CPT Rig in Parking Lot by Subsurface Technologies" 30 minutes.** Daugherty motioned to assign **0.5 CEC**, Byrd seconded. The vote was all in favor.

E) Public Comment

# F) Future Meeting

TBD (possibly July 6 or 7, 2010)

Adjourn