

Well Constructor Continuing Education Committee Minutes
Thursday February 7, 2008

Committee Members Present: Mike Waldroop, Terry Daugherty, Kris Byrd, Greg McInnis - by telephone for review of course Daugherty submitted
Others Present: Nancy Sippel, Juno Pandian, Tracy Eichenlaub

A) Cont. Ed. Committee Meeting Minutes

The draft minutes from the December 21, 2007, meeting were reviewed. Byrd motioned to approve the draft minutes as is, Waldroop seconded. The vote was all in favor.

B) Other Issues
None

C) Review of Applications

- The Cont. Ed. Committee reviewed the course application for **“In the Hopper” scheduled for March 7, 2008**, submitted by the **Oregon Ground Water Association (OGWA)**. The instructor is Steve Schneider, Schneider Equipment Inc. This two (2) hour course is part of the **2008 OGWA Spring Technical Seminar, March 7-8, 2008, in Keizer, Oregon (OR)**. Waldroop motioned to assign **two (2) CECs in the OR gw/well laws category**, Byrd seconded. The vote was all in favor.
- The Cont. Ed. Committee reviewed the course application for **“Steel Pipe & Casing - What Drives the Market and How It Affects the Industry” scheduled for March 7, 2008**, submitted by the **OGWA**. The instructor is Jamey Mathews, Kelly Pipe Company. This one (1) hour course is part of the **2008 OGWA Spring Technical Seminar, March 7-8, 2008, in Keizer, OR**. Daugherty motioned to assign **one (1) CEC**, Byrd seconded. The vote was all in favor.
- The Cont. Ed. Committee reviewed the course application for **“Basic Sizing & Troubleshooting of Drive Units - Best Applications & Servicing of Units” scheduled for March 7, 2008**, submitted by the **OGWA**. The instructor is Tim Doherty, CPS/Preferred Pump. This one (1) hour course is part of the **2008 OGWA Spring Technical Seminar, March 7-8, 2008, in Keizer, OR**. Byrd motioned to assign **0.5 CEC**, Daugherty seconded. The vote was all in favor.
- The Cont. Ed. Committee reviewed the course application for **“Elements for Driver Qualification & Driver Safety and Hands-on Truck Safety Inspection on a Drill Rig” scheduled for March 7, 2008**, submitted by the **OGWA**. The instructor is Chuck Adams, Oregon Department of Transportation. This two (2) hour course is part of the **2008 OGWA Spring Technical Seminar, March 7-8, 2008, in Keizer, OR**. Byrd motioned to assign **two (2) CECs**, Daugherty seconded. The vote was all in favor.
- The Cont. Ed. Committee reviewed the course application for **“Insuring**

- Microbiological Water Safety - UV and Chlorination Comparison”** scheduled for **March 7, 2008**, submitted by the **OGWA**. The instructor is Allen Hurtado, United Pipe & Supply. This one (1) hour course is part of the **2008 OGWA Spring Technical Seminar, March 7-8, 2008, in Keizer, OR**. Waldroop motioned to assign **one (1) CEC**, Byrd seconded. The vote was all in favor.
- The Cont. Ed. Committee reviewed the course application for **“Beyond Softeners and Iron Filters: When a softener or iron filter isn’t enough - What to do for some “other stuff” found in well water”** scheduled for **March 7, 2008**, submitted by the **OGWA**. The instructor is Gabe Ergler, O3 Water Systems. This one (1) hour course is part of the **2008 OGWA Spring Technical Seminar, March 7-8, 2008, in Keizer, OR**. Waldroop motioned to assign **one (1) CEC**, Byrd seconded. The vote was all in favor.
 - The Cont. Ed. Committee reviewed the course application for **“What Happens to a Water Sample When it Gets to the Lab”** scheduled for **March 7, 2008**, submitted by the **OGWA**. The instructor is Beth Meyers, Waterlab Corp. This one (1) hour course is part of the **2008 OGWA Spring Technical Seminar, March 7-8, 2008, in Keizer, OR**. Byrd motioned to assign **one (1) CEC**, Daugherty seconded. The vote was all in favor.
 - The Cont. Ed. Committee reviewed the course application for **“Creating Effective Company Policies for the Ground Water Industry”** scheduled for **March 7, 2008**, submitted by the **OGWA**. The instructor is Laura A. Schroeder. This one (1) hour course is part of the **2008 OGWA Spring Technical Seminar, March 7-8, 2008, in Keizer, OR**. Daugherty motioned to assign **one (1) CEC**, Byrd seconded. The vote was all in favor.
 - The Cont. Ed. Committee reviewed the course application for **“How Much is Enough? Making Decisions in the Water Well Industry”** scheduled for **March 8, 2008**, submitted by the **OGWA**. The instructor is F. Michael Krautkramer, Robinson, Noble & Saltbush Inc. This one (1) hour and 30 minute course is part of the **2008 OGWA Spring Technical Seminar, March 7-8, 2008, in Keizer, OR**. Daugherty motioned to assign **1.5 CECs**, Byrd seconded. The vote was all in favor.
 - The Cont. Ed. Committee reviewed the course application for **“Exempt Wells and Ground Water Surface Water Interaction”** scheduled for **March 8, 2008**, submitted by the **OGWA**. The instructor is Steve Schneider, Schneider Equipment Inc. This one (1) hour course is part of the **2008 OGWA Spring Technical Seminar, March 7-8, 2008, in Keizer, OR**. Waldroop motioned to assign **one (1) CEC**, Byrd seconded. The vote was all in favor.
 - The Cont. Ed. Committee reviewed the course application for **“How to Provide Better Service to Your Clients by Understanding Their Water Right Permit Requirements”** scheduled for **March 8, 2008**, submitted by the **OGWA**. The instructor is Greg Kupillas. This one (1) hour course is part of the **2008 OGWA Spring Technical Seminar, March 7-8, 2008, in Keizer, OR**. Byrd motioned to assign **one (1) CEC in the OR gw/well laws category**, Daugherty seconded. The vote was all in favor.
 - The Cont. Ed. Committee reviewed the course application for **“Cementing as a Grout - the use of additives for Grouting”** scheduled for **March 8, 2008**, submitted by the **OGWA**. The instructors are Kirby Donald and Jack Sowers, Baroid. This one (1) hour course is part of the **2008 OGWA Spring Technical Seminar, March 7-8, 2008, in**

Keizer, OR. Waldroop motioned to assign **one (1) CEC**, Daugherty seconded. The vote was all in favor.

- The Cont. Ed. Committee reviewed the course application for **“Pump Installation Cost Calculator” scheduled for March 8, 2008**, submitted by the **OGWA**. The instructor is Scott Fowler, Dahlma Pump & Well Drilling. This one (1) hour course is part of the **2008 OGWA Spring Technical Seminar, March 7-8, 2008, in Keizer, OR**. Byrd motioned to assign **0.5 CEC**, Daugherty seconded. The vote was all in favor.
- The Cont. Ed. Committee reviewed the course application for **“Overview of Geothermal Systems” scheduled for March 8, 2008**, submitted by the **OGWA**. The instructor is Mike Golightly, ISCO Industries. This one (1) hour course is part of the **2008 OGWA Spring Technical Seminar, March 7-8, 2008, in Keizer, OR**. Waldroop motioned to assign **one (1) CEC**, Byrd seconded. The vote was all in favor.
- The Cont. Ed. Committee reviewed the course application for **“Basic Motor Controls” scheduled for March 8, 2008**, submitted by the **OGWA**. The instructor is Mitch McClannahan, Selectric. This one (1) hour course is part of the **2008 OGWA Spring Technical Seminar, March 7-8, 2008, in Keizer, OR**. Daugherty motioned to assign **0.5 CEC**, Waldroop seconded. The vote was all in favor.

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- The Cont. Ed. Committee reviewed the course application for **“Aquifer Storage Recovery” an online course**, submitted by the **International School of Well Drilling (ISWD)**. This course is designed to take one (1) hour. Daugherty motioned to assign **one (1) CEC**, Byrd seconded. The vote was all in favor.
 - The Cont. Ed. Committee reviewed the course application for **“Well Development” an online course**, submitted by the **ISWD**. This course is designed to take one (1) hour. Byrd motioned to assign **one (1) CEC**, Waldroop seconded. The vote was all in favor.
 - The Cont. Ed. Committee reviewed the course application for **“Drilling Methods” an online course**, submitted by the **ISWD**. This course is designed to take two (2) hours. Byrd motioned to assign **two (2) CECs**, Daugherty seconded. The vote was all in favor.
 - The Cont. Ed. Committee reviewed the course application for **“Basic Geology and Groundwater” an online course**, submitted by the **ISWD**. This course is designed to take one (1) hour. Waldroop motioned to assign **one (1) CEC**, Daugherty seconded. The vote was all in favor.
 - The Cont. Ed. Committee reviewed the course application for **“Geothermal Heating & Cooling” an online course**, submitted by the **ISWD**. This course is designed to take two (2) hours. Byrd motioned to assign **two (2) CECs**, Waldroop seconded. The vote was all in favor.
 - The Cont. Ed. Committee reviewed the course application for **“History of Well Construction” an online course**, submitted by the **ISWD**. This course is designed to take one (1) hour. Waldroop motioned to assign **one (1) CEC**, Daugherty seconded. The vote was all in favor.
 - The Cont. Ed. Committee reviewed the course application for **“Injection Well” an online course**, submitted by the **ISWD**. This course is designed to take two (2) hours. Byrd motioned to assign **two (2) CECs**, Waldroop seconded. The vote was all in favor.
 - The Cont. Ed. Committee reviewed the course application for **“Well Rehabilitation” an**

- online course**, submitted by the **ISWD**. This course is designed to take two (2) hours. Byrd motioned to assign **two (2) CECs**, Daugherty seconded. The vote was all in favor.
- The Cont. Ed. Committee reviewed the course application for **“Well Abandonment” an online course**, submitted by the **ISWD**. This course is designed to take one (1) hour. Waldroop motioned to assign **one (1) CEC**, Daugherty seconded. The vote was all in favor.

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- The Cont. Ed. Committee reviewed the course application for **“Mini Grouting Short Course” held February 1, 2008**, submitted by the **National Ground Water Association (NGWA)**. The instructors are Kent Myers, Wyo-Ben Inc.; Robert Oliver, CETCO Drilling Products Group; Jack Sowers, Baroid Industrial Drilling Products; and Roger E. Renner, E.H. Renner & Sons. This four (4) hour course was part of the **2008 NGWA Pacific Northwest Ground Water Expo, February 1-2, 2008, in Portland, OR**. Daugherty motioned to assign **four (4) CECs**, Waldroop seconded. The vote was all in favor.
 - The Cont. Ed. Committee reviewed the course application for **“Driver Qualification and Compliance: What Drilling Contractors Must Know and Do” held February 1, 2008**, submitted by the **NGWA**. The instructor is Gary LaBrake, On the Road. This one (1) hour 30 minute course was part of the **2008 NGWA Pacific Northwest Ground Water Expo, February 1-2, 2008, in Portland, OR**. Daugherty motioned to assign **1.5 CECs**, Byrd seconded. The vote was all in favor.
 - The Cont. Ed. Committee reviewed the course application for **“Cargo Securement Regulations: The latest Requirements for Water Well Drilling Contractors” held February 1, 2008**, submitted by the **NGWA**. The instructor is Gary LaBrake, On the Road. This two (2) hour course was part of the **2008 NGWA Pacific Northwest Ground Water Expo, February 1-2, 2008, in Portland, OR**. Waldroop motioned to assign **two (2) CECs**, Byrd seconded. The vote was all in favor.
 - The Cont. Ed. Committee reviewed the course application for **“NGWA Drilling and Pump Installation Cost Calculator” held February 1, 2008**, submitted by the **NGWA**. The instructor is Roger E. Renner, E.H. Renner & Sons. This one (1) hour 30 minute course was part of the **2008 NGWA Pacific Northwest Ground Water Expo, February 1-2, 2008, in Portland, OR**. Byrd motioned to assign **1.5 CECs**, Waldroop seconded. The vote was all in favor.
 - The Cont. Ed. Committee reviewed the course application for **“Emergency Planning for Water Well Contractors” held February 1, 2008**, submitted by the **NGWA**. The instructor is Joseph J. Hogan, The Hartford Insurance Group. This one (1) hour course was part of the **2008 NGWA Pacific Northwest Ground Water Expo, February 1-2, 2008, in Portland, OR**. Waldroop motioned to assign **one (1) CEC**, Daugherty seconded. The vote was all in favor.
 - The Cont. Ed. Committee reviewed the course application for **“Variable Frequency Drives” held February 1, 2008**, submitted by the **NGWA**. The instructor is Roger E. Renner, E.H. Renner & Sons. This one (1) hour course was part of the **2008 NGWA Pacific Northwest Ground Water Expo, February 1-2, 2008, in Portland, OR**. Waldroop motioned to assign **0.5 CEC**, Daugherty seconded. The vote was all in favor.

- The Cont. Ed. Committee reviewed the course application for **“Common Water Well Contractor Losses” held February 2, 2008**, submitted by the NGWA. The instructor is Joseph J. Hogan, The Hartford Insurance Group. This one (1) hour course was part of the **2008 NGWA Pacific Northwest Ground Water Expo, February 1-2, 2008, in Portland, OR**. Waldroop motioned to assign **one (1) CEC**, Byrd seconded. The vote was all in favor.
- The Cont. Ed. Committee reviewed the course application for **“Washington Regulations - Water Well Construction” held February 2, 2008**, submitted by the NGWA. The instructors are William E. Lum and Marian Bruner, Washington Department of Ecology. This two (2) hour course was part of the **2008 NGWA Pacific Northwest Ground Water Expo, February 1-2, 2008, in Portland, OR**. Byrd motioned **not to assign CEC**, Waldroop seconded. The vote was all in favor.
- The Cont. Ed. Committee reviewed the course application for **“Proper Drill Bit Selection” held February 1, 2008**, submitted by the NGWA. The instructors are Stephen Jenkins and Eric Ball, Atlas Copco Construction Mining Technique USA LLC. This one (1) hour 30 minute course was part of the **2008 NGWA Pacific Northwest Ground Water Expo, February 1-2, 2008, in Portland, OR**. Waldroop motioned to assign **1.5 CECs**, Byrd seconded. The vote was all in favor.

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- The Cont. Ed. Committee reviewed the course application for **“2 Day Hydraulic Understanding and Troubleshooting” scheduled for March 6-7, 2008, in Albany, Oregon**, submitted by **Hydraulic Training Associates LLC**. The instructor is J. Eric Freimuth, Hydraulic Training Associates, LLC. Daugherty motioned to assign **14 CECs, being 7 CECs each for two 7 hour days**, Waldroop seconded. The vote was all in favor.

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- The Cont. Ed. Committee reviewed the course application for **“Grundfos 2008 Certified WaterPro Training” scheduled for February 19-20, 2008, in Nampa, Idaho**, submitted by **Robertson Supply Inc**. The course is seven (7) hours per day. The instructor is Greg Lock, Grundfos Pump Co. Daugherty motioned to assign **3.5 CECs per day**, Byrd seconded. The vote was all in favor.

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- The Cont. Ed. Committee reviewed the course application for **“Regulations Update (Washington)”** submitted by the **Washington State Ground Water Association (WSGWA)**. The instructors are Washington Department of Ecology staff. This one (1) hour course is part of the **2008 WSGWA Technical Seminar Series, scheduled March 14, 2008, in Tacoma, Washington (WA), March 15, 2008, in Kelso, WA, March 28, 2008, in Pasco, WA and March 29, 2008, in Spokane, WA**. Byrd motioned **not to assign CEC**, Waldroop seconded. The vote was all in favor.
 - The Cont. Ed. Committee reviewed the course application for **“Drill Rig and Compressor Maintenance”** submitted by the **WSGWA**. The instructor is Bruce Mackay, Schramm Inc. This six (6) hour course is part of the **2008 WSGWA Technical Seminar Series, scheduled March 14, 2008, in Tacoma, WA and March 15, 2008, in Kelso, WA**. Daugherty motioned to assign **six (6) CECs**, Byrd seconded. The vote was all in favor.

- The Cont. Ed. Committee reviewed the course application for “**Drill Rig and Compressor Maintenance**” submitted by the **WSGWA**. The instructor is Jerry Pierson, Gefco. This six (6) hour course is part of the **2008 WSGWA Technical Seminar Series, scheduled March 28, 2008, in Pasco, WA and March 29, 2008, in Spokane, WA**. Daugherty motioned to assign **six (6) CECs**, Byrd seconded. The vote was all in favor.
- The Cont. Ed. Committee reviewed the course application for “**Electrical Grounding: Theory & Application**” submitted by the **WSGWA**. The instructor is Mike Hayes, Hayes Technical Systems. This four (4) hour course is part of the **2008 WSGWA Technical Seminar Series, scheduled March 14, 2008, in Tacoma, WA, March 15, 2008, in Kelso, WA , March 28, 2008, in Pasco, WA and March 29, 2008, in Spokane, WA**. Byrd motioned to assign **two (2) CECs**, Waldroop seconded. The vote was all in favor.
- The Cont. Ed. Committee reviewed the course application for “**Building, Irrigation & Water Supply Piping**” submitted by the **WSGWA**. The instructor is Gale Bellows, Corey Consultants. This four (4) hour course is part of the **2008 WSGWA Technical Seminar Series, scheduled March 14, 2008, in Tacoma, WA, March 15, 2008, in Kelso, WA , March 28, 2008, in Pasco, WA and March 29, 2008, in Spokane, WA**. Daugherty motioned to assign **two (2) CECs**, Waldroop seconded. The vote was all in favor.

D) Review of Documentation

Joel Jeffery, #10074 submitted:

documentation for “**Applied Hydrogeologic Site Characterization & Monitoring Well Construction for Environmental Professionals**” taken **December 5-7, 2007, in Troutdale, Oregon** sponsored by the **Northwest Environmental Training Center**. Daugherty motioned to assign **20 CECs**, Byrd seconded. The vote was all in favor.

Doug Aiken, #1255 submitted:

documentation for “**Central Oregon Regional Excavation Update about Dig Safely Oregon**” taken **January 29, 2008, in Bend, Oregon** sponsored by the **Oregon Utility Notification Center**. Daugherty motioned to assign **four (4) CECs**, Byrd seconded. The vote was all in favor.

Fred Krasner, #796 submitted:

documentation for a **Southern Oregon Hydrology II Field Lab** held **February 1, 2008, in Ashland, Oregon** sponsored by **Southern Oregon University**. Daugherty motioned to assign **four (4) CECs in the OR gw/well laws category**, Byrd seconded. The vote was all in favor.

Tim Riley, #1424 submitted:

documentation for a two (2) hour meeting, **Harney County Water Right Workshop**, held by the **Water Resources, January 22, 2008, in Burns, Oregon**. Daugherty motioned to assign **two (2) CECs in the OR gw/well laws category**, Byrd seconded. The vote was all in favor.

Terry Daugherty, #1505 submitted:

documentation for a three hour **Technical Committee meeting** discussing bentonite and rules, scheduled for **February 8, 2008, in Salem, Oregon** held at the **Oregon Water**

Resources Department. Daugherty recused himself. McInnis motioned to assign **three (3) CECs in the OR gw/well laws category**, Waldroop seconded. The vote was all in favor. Discussion: Cont. Ed. Committee agrees that this approval is for this specific meeting.

E) Public Comment

There was no public comment.

F) Next meeting tentatively scheduled for April 17, 2008.

Adjourn.