

**MINUTES**  
Well Constructor Continuing Education Committee  
Tuesday November 18, 2008

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

A) Cont. Ed. Committee Meeting Minutes

The draft minutes from the September 18, 2008, meeting were reviewed. Waldroop motioned to approve the draft minutes as is, Daugherty seconded. The vote was all in favor.

B) Other Issues

- The Department informed the Cont. Ed. Committee that a partial waiver has been granted.

C) Review of Applications

- The Cont. Ed. Committee reviewed the following course applications as part of the **California Ground Water Association's (CGA) 60<sup>th</sup> Annual Convention and Trade Show, held October 30-November 1, 2008, at John Ascuaga's Nugget in Sparks, Nevada:**
  - **"CARB Requirements Affecting the Groundwater Industry" two (2) hours, November 1, 2008.** The instructor is Mike Buckantz, CIAQC. McInnis motioned **not to assign CEC**, Waldroop seconded. The vote was all in favor.
  - **"Water Well Destruction" seven (7) hours, October 30, 2008.** The instructors are Jeremy C. Wire, Geoconsultants, Inc.; Carl Hauge, CA Department of Water Resources (Ret.); Robert J. Guardino, Welenco, Inc.; Gary Williams, Baroid IDP; Constance Stavros, Sonoma County PRMD; and Rob Schroeder, Weeks Drilling & Pump Co. The Cont. Ed. Committee reviewed the agenda and combined the minutes of the portions they determined would count. McInnis motioned to assign **5.5 CECs**, Byrd seconded. The vote was all in favor.
  - **"Well Aid" two (2) hours, October 31, 2008.** The instructor is Robert Guardino, Welenco, Inc. Daugherty motioned to assign **one (1) CEC**, McInnis seconded. The vote was all in favor.
  - **"Submersible Pump Failure Analysis" two (2) hours, October 31, 2008.** The instructor is Rick Hicklin, Pentair Water. Byrd motioned to assign **one (1) CEC**, Daugherty seconded. The vote was all in favor.
  - **"Geology and Hydrology" two (2) hours, October 31, 2008.** The instructor is Jeremy Wire, Geoconsultants, Inc. Waldroop motioned to assign **two (2) CECs**, Daugherty seconded. The vote was all in favor.
  - **"Understanding Well Problems & Directions for Treatment" two (2) hours, November 1, 2008.** The instructor is Dave Hanson, Design Water Technologies. Waldroop motioned to assign **two (2) CECs**, McInnis seconded. The vote was all in favor.
  - **"Motor Controls and Motor Protection" two (2) hours, November 1, 2008.**

The instructors are Bob Pelikan and Rob Duff, SymCom. Waldroop motioned to assign **one (1) CEC**, Daugherty seconded. The vote was all in favor.

- **“Drilling and Pump Cost Calculators” two (2) hours, November 1, 2008.** The instructor is Dan Meyer, Gregg Drilling. Daugherty motioned to assign **two (2) CECs**, 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 **Washington State Ground Water Association’s (WSGWA) Fall 2008 CEU Seminar**, held **October 24, 2008, in Pasco, Washington (WA); November 7, 2008, in Tacoma, WA; and November 8, 2008, in Kelso, WA:**
    - **“Regulations Update” two (2) hours.** The instructor is WA Department of Ecology staff. McInnis motioned **not to assign CEC**, Byrd seconded. The vote was all in favor.
    - **“Basic Training for Pressurized Pipe Meters” one (1) hour.** The instructor is Ken Schuster, WA Department of Ecology. Daugherty motioned to assign **0.5 CEC**, Byrd seconded. The vote was all in favor.
    - **“Industry Happenings (Update)” one (1) hour.** The instructor is Craig A. Gresham, Gresham Well Drilling Inc. McInnis motioned **not to assign CEC**, Waldroop seconded. The vote was all in favor.
    - **“Current Health and Safety Concerns in Environmental & Ground Water Drilling” one (1) hour.** The instructor is John Hildebrand, Robinson, Noble & Saltbush. Waldroop motioned to assign **one (1) CEC in the safety/first aid/CPR category**, McInnis seconded. The vote was all in favor.
    - **“Hazard Recognition and Accident Prevention in the Drilling Industry” one (1) hour.** The instructor is Mike Thomas, Cascade Drilling Co. McInnis motioned to assign **one (1) CEC in the safety/first aid/CPR category**, Waldroop seconded. The vote was all in favor.
    - **“Back Injury Prevention for the Drilling Industry” one (1) hour.** The instructor is Mike Thomas, Cascade Drilling Co. McInnis motioned to assign **one (1) CEC in the safety/first aid/CPR category**, Byrd seconded. The vote was all in favor.
    - **“Living With OSHA: OSHA and Your Business” one (1) hour.** The instructor is Joseph Hogan, The Hartford Insurance Group. Byrd motioned to assign **one (1) CEC in the safety/first aid/CPR category**, Waldroop seconded. The vote was all in favor.
    - **“Preventable or Non-Preventable?” one (1) hour.** The instructor is Joseph Hogan, The Hartford Insurance Group. 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 **“Bentonite Drilling Fluids Seminar” held November 5, 2008, eight (8) hours, in Prosser, WA**, sponsored

by **CETCO**. Byrd motioned to assign **eight (8) CECs**, Waldroop seconded. The vote was all in favor.

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- The Cont. Ed. Committee reviewed the following course applications as part of the **National Ground Water Association’s (NGWA) 2008 Ground Water Expo**, scheduled for **December 2-5, 2008, in Las Vegas, Nevada**:
  - **“Cable Tool Drilling” one (1) hour 30 minutes, December 2, 2008.** The instructor is Roger E. Renner, E. H. Renner & Sons, Inc. Byrd motioned to assign **1.5 CECs**, Daugherty seconded. The vote was all in favor.
  - **“Lock-Out-Tag-Out for Water Well Drillers” one (1) hour 30 minutes, December 2, 2008.** The instructor is Joseph Hogan, The Hartford Insurance Group. McInnis motioned to assign **1.5 CECs in the safety/first aid/CPR category**, Byrd seconded. The vote was all in favor.
  - **“Low-Flow Ground Water Sampling” one (1) hour 30 minutes, December 2, 2008.** The instructor is David Wardwell, In-Situ, Inc. McInnis motioned to assign **1.5 CECs**, Waldroop seconded. The vote was all in favor.
  - **“New Streams of Income” one (1) hour 30 minutes, December 2, 2008.** The instructor is Gary Battenberg, Hague Quality Water. Waldroop motioned to assign **1.5 CECs**, Byrd seconded. The vote was all in favor.
  - **“The Cost of Doing Business: What Should Your Business Look Like?” one (1) hour 30 minutes, December 2, 2008.** The instructor is Ron Slee, R. J. Slee & Associates. Byrd motioned to assign **1.5 CECs**, Daugherty seconded. The vote was all in favor.
  - **“Geophysical Logging Introductory Workshop: Ground Water and Environmental Applications” four (4) hours, December 2, 2008.** The instructor is Wendy Wempe and Edward A. Clayton, Schlumberger Water Services. Waldroop motioned to assign **four (4) CECs**, Daugherty seconded. The vote was all in favor.
  - **“Air Rotary Drilling” one (1) hour, December 2, 2008.** The instructor is Richard A. Thron, Mantyla Well Drilling, Inc. Daugherty motioned to assign **one (1) CEC**, McInnis seconded. The vote was all in favor.
  - **“Ground Water as an Agent of Broad Social Change” one (1) hour, December 2, 2008.** The instructor is Stephen E. Ragone, NGWA. McInnis motioned to assign **one (1) CEC**, Byrd seconded. The vote was all in favor.
  - **“Update on the Development of ANSI NGWA 01-07 Water Well Construction Standard” one (1) hour, December 2, 2008.** The instructor is Jonathan Tyler Jenkins, NGWA. McInnis motioned to assign **one (1) CEC**, Daugherty seconded. The vote was all in favor.
  - **“Fishing Tools” one (1) hour 30 minutes, December 2, 2008.** The instructor is George Stewart, Weatherford. Byrd motioned to assign **1.5 CECs**, Waldroop seconded. The vote was all in favor.
  - **“Best Suggested Practices for Dealing With the Relationship Between Wells with Elevated Levels of Iron and Arsenic” one (1) hour 30 minutes, December 2, 2008.** The instructor is Jonathan Tyler Jenkins, NGWA. Waldroop

- motioned to assign **1.5 CECs**, Daugherty seconded. The vote was all in favor.
- **“DOT Roadside Inspections: Beware and Be Ready” one (1) hour 30 minutes, December 2, 2008.** The instructor is Gary LaBrake. Byrd motioned to assign **1.5 CECs**, McInnis seconded. The vote was all in favor.
  - **“Safety Legislation and Compliance in the Drilling and Pump Service Business” one (1) hour 30 minutes, December 2, 2008.** The instructor is Jim Wright, WDC Exploration & Wells. McInnis motioned to assign **1.5 CECs**, Waldroop seconded. The vote was all in favor.
  - **“Well Specifications: Best Practices and Conflict Resolution” one (1) hour 30 minutes, December 2, 2008.** The instructors are Thom Hanna, Johnson Screens; Christopher Mikell, Bowen, Collins & Associates and Mark Scharenbroich. McInnis motioned to assign **1.5 CECs**, Daugherty seconded. The vote was all in favor.
  - **“Hydrophilanthropy” one (1) hour 30 minutes, December 2, 2008.** The instructors are Andrew “Kyle” Hoover, Brooks Engineering Associates; Stuart Smith, Ground Water Science; Robert B. Perry. McInnis motioned to assign **1.5 CECs**, Byrd seconded. The vote was all in favor.
  - **“I Are a Scientist and You Is an Engineer: Technical Writing for Non-English Majors” one (1) hour 30 minutes, December 2, 2008.** The instructor is M. Lisa Spahr, Engineering & Environmental Consultants, Inc. Byrd motioned to assign **1.5 CECs**, McInnis seconded. The vote was all in favor.
  - **“Living with OSHA: OSHA and Your Business” one (1) hour, December 2, 2008.** The instructor is Jonathan Tyler Jenkins, NGWA. McInnis motioned to assign **one (1) CEC**, Waldroop seconded. The vote was all in favor.
  - **“Understanding IADC Codes for Tricone Bits” one (1) hour, December 2, 2008.** The instructor is Tim Thomas, Bit Brokers International. Waldroop motioned to assign **one (1) CEC**, Daugherty seconded. The vote was all in favor.
  - **“Customer Service and Profitability: Much More than Just Answering the Phone Promptly” three (3) hours, December 2, 2008.** The instructor is Ron Slee, R. J. Slee & Associates. Waldroop motioned to assign **three (3) CECs**, McInnis seconded. The vote was all in favor.
  - **“Fleet Safety: Preventing Common Water Well Driller Fleet Accidents” one (1) hour, December 2, 2008.** The instructor is Joseph Hogan, The Hartford Insurance Group. McInnis motioned to assign **one (1) CEC in the safety/first aid/CPR category**, Byrd seconded. The vote was all in favor.
  - **“Boring Logs-What’s Important and What’s Not: A Scientific Viewpoint” (2009 NGWA McElhiney Lecture) one (1) hour, December 2, 2008.** The instructor is W. Richard Laton, California State University. Waldroop motioned to assign **one (1) CEC**, Daugherty seconded. The vote was all in favor.
  - **“Cost-Effective Tools for Investigations and Remedial Applications: Direct-Push Technology” one (1) hour, December 2, 2008.** The instructor is Bruce Manchon and John Sciacca, ARCADIS. Byrd motioned to assign **one (1) CEC**, McInnis seconded. The vote was all in favor.

- **“Deep Ground Water Investigations” one (1) hour 30 minutes, December 2, 2008.** The instructors are Paul Rollins, Willowstick Technologies LLC; Mark Grivetti, Geosyntec Consultants; Richard Sturn, CH2MHill; Scott E. Martin, Kinder Morgan Energy Partners, L.P.; Rodney A. Fricke and Gerald B. Swanick, Aerojet; Stephen M. Carlton, GeoTrans Inc.; Cynthia P. Ardito and Rob Sengebush, INTERA; and Guy Bralley, Sandoval County, New Mexico. Byrd motioned to assign **1.5 CECs**, Waldroop seconded. The vote was all in favor.
- **“Educating Our Children: Ground Water Awareness in Schools” one (1) hour, December 2, 2008.** The instructor is Cliff Treyens, NGWA. Byrd motioned to assign **one (1) CEC**, Daugherty seconded. The vote was all in favor.
- **“Planning for Disaster” one (1) hour, December 2, 2008.** The instructor is Joseph Hogan, The Hartford Insurance Group. Waldroop motioned to assign **one (1) CEC**, McInnis seconded. The vote was all in favor.
- **“Preparing for a DOT Audit: What to Do Today” one (1) hour, December 2, 2008.** The instructor is Gary LaBrake. McInnis motioned to assign **one (1) CEC**, Byrd seconded. The vote was all in favor.
- **“Water Well Standards for Developing Countries” one (1) hour 30 minutes, December 2, 2008.** The instructor is Steve Schneider, Schneider Equipment, Inc. Waldroop motioned to assign **1.5 CECs**, Daugherty seconded. The vote was all in favor.
- **“Application of Dual Rotary Drilling” one (1) hour, December 2, 2008.** The instructor is Rick Finney, Foremost Industries. Daugherty motioned to assign **one (1) CEC**, McInnis seconded. The vote was all in favor.
- **“Grouting and Placement for the Geothermal Industry” one (1) hour 30 minutes, December 3, 2008.** The instructor is Stewart Krause, Wyo-Ben, Inc. Byrd motioned to assign **1.5 CECs**, McInnis seconded. The vote was all in favor.
- **“Ground Water Availability for the Future” one (1) hour 30 minutes, December 3, 2008.** The instructor is Michael Moran, U.S. Geological Survey. McInnis motioned to assign **1.5 CECs**, Byrd seconded. The vote was all in favor.
- **“Update on DOT Proposals and Activities” one (1) hour, December 3, 2008.** The instructor is Gary LaBrake. McInnis motioned to assign **one (1) CEC**, Waldroop seconded. The vote was all in favor.
- **“Geological Storage as a Carbon Mitigation Option” (the 2008 Darcy Lecture) one (1) hour, December 3, 2008.** The instructor is Michael Celia, Princeton University. Daugherty motioned to assign **one (1) CEC**, McInnis seconded. The vote was all in favor.
  
- **“Best Suggested Practices for Sustained Yield in a Hydrofractured Well – Work Session” one (1) hour 30 minutes, December 3, 2008.** The instructor is Jonathan Tyler Jenkins, NGWA. Waldroop motioned to assign **1.5 CECs**, Daugherty seconded. The vote was all in favor.
- **“Everything You Always Wanted to Know About Variable Speed Pumps but**

- Were Afraid to Ask” one (1) hour, December 3, 2008.** The instructor is David L. Kill, Goulds Pumps. Waldroop motioned to assign **0.5 CEC**, Daugherty seconded. The vote was all in favor.
- **“Killer Contract Clauses” one (1) hour, December 3, 2008.** The instructor is Donald W. Gregory, Kegler, Brown, Hill & Ritter. McInnis motioned to assign **one (1) CEC**, Waldroop seconded. The vote was all in favor.
  - **“Preventable or Unpreventable?” one (1) hour 30 minutes, December 3, 2008.** The instructor is Joseph Hogan, The Hartford Insurance Group. McInnis motioned to assign **1.5 CECs**, Waldroop seconded. The vote was all in favor.
  - **“Using the Environmental Remediation Drilling Safety Guideline to Enhance Industry Safe Practices” one (1) hour, December 3, 2008.** The instructor is Jim Wright, WDC Exploration & Wells. McInnis motioned to assign **one (1) CEC in the safety/first aid/CPR category**, Daugherty seconded. The vote was all in favor.
  - **“Keynote Address” two (2) hours, December 3, 2008.** The speaker is Sister Camille Anne Campbell, Mt Carmel Academy. McInnis motioned **not to assign CECs**, Byrd seconded. The vote was all in favor.
  - **“Best Suggested Practices for the Safe Handling of Radioactive Wastes From Water Treatment Devices – Work Session” two (2) hours, December 4, 2008.** The instructor is Jonathan Tyler Jenkins, NGWA. Waldroop motioned to assign **two (2) CECs**, Daugherty seconded. The vote was all in favor.
  - **“Hurricane Katrina: A Model that Really Worked” one (1) hour, December 4, 2008.** The instructor is Ivor Van Heerden, LSU Hurricane Center. McInnis motioned to assign **one (1) CEC**, Waldroop seconded. The vote was all in favor.
  - **“Best Suggested Practices for Residential Well Cleaning” one (1) hour 30 minutes, December 4, 2008.** The instructor is John Schnieders, Water Systems Engineering, Inc. Daugherty motioned to assign **1.5 CECs**, Waldroop seconded. The vote was all in favor.
  - **“Drilling, Well Construction, and Maintenance: Increasing Challenges from Regulators, Consultants, and Clients” two (2) hours, December 4, 2008.** The instructors are Ethan O. Weikel, Westminster; Tom Kwader, URS Corp.; Jim Bailey, Kleinfelder Inc.; and Sean Fitzpatrick, Schneider Electric. Waldroop motioned to assign **two (2) CECs**, McInnis seconded. The vote was all in favor.
  - **“Planning for Profit: Suppliers” one (1) hour 30 minutes, December 4, 2008.** The instructor is Albert D. Bates, Profit Planning Group. McInnis motioned to assign **1.5 CECs**, Byrd seconded. The vote was all in favor.
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- **“Recruiting and Retaining Employees” one (1) hour 30 minutes, December 4, 2008.** The instructors are Heidi Barry and Michael C. Malloy, CDM. Byrd motioned to assign **1.5 CECs**, Waldroop seconded. The vote was all in favor.
  - **“What’s in Your Modeling Toolkit?” one (1) hour 30 minutes, December 4, 2008.** The instructors are Jason R. House; Andrew C. Mills, MACTEC Engineering & Consulting, Inc.; Michael J. Smith, CDM; Wayne Hesch and

- Serguei Chmakov, Schlumberger Water Services. McInnis motioned to assign **1.5 CECs**, Byrd seconded. The vote was all in favor.
- **“Planning for Profit: Contractors” one (1) hour 30 minutes, December 4, 2008.** The instructor is Albert D. Bates, Profit Planning Group. McInnis motioned to assign **1.5 CECs**, Daugherty seconded. The vote was all in favor.
  - **“Drilling Fluids for Use in Ground Source Heat Pump Loop Installations” one (1) hour 30 minutes, December 4, 2008.** The instructor is Joseph Dobry, Baroid Drilling Fluids. Daugherty motioned to assign **1.5 CECs**, Waldroop seconded. The vote was all in favor.
  - **“Nanotechnology in the Environment: Clean Water from Small Materials” one (1) hour 30 minutes, December 4, 2008.** The instructor is Vicki Colvin, Rice University. Waldroop motioned to assign **1.5 CECs**, McInnis seconded. The vote was all in favor.
  - **“Decreasing Drilling Cost-Per-Foot in the Geexchange Drilling Industry: Selecting the Correct Bit” one (1) hour, December 5, 2008.** The instructor is Dick Palmer, Palmer Bit Co., Inc. McInnis motioned to assign **one (1) CEC**, Daugherty seconded. The vote was all in favor.
  - **“How to Conduct an Effective Safety Meeting” one (1) hour, December 5, 2008.** The instructor is Joseph Hogan, The Hartford Insurance Group. McInnis motioned to assign **one (1) CEC in the safety/first aid/CPR category**, Byrd seconded. The vote was all in favor.
  - **“Repair a Hand Pump – Save a Life” one (1) hour, December 5, 2008.** The instructor is Ralph L. Taylor Jr., CWD. Waldroop motioned to assign **0.5 CEC**, McInnis seconded. The vote was all in favor.
  - **“Be a Part of the Future: NGWA’s Director Candidates School” one (1) hour, December 5, 2008.** The instructor is Kevin McCray, NGWA. McInnis motioned **not to assign CEC**, Waldroop seconded. The vote was all in favor.
  - **“Las Vegas Valley Water District’s Ground Water Recharge Facility Tour” three (3) hours, December 5, 2008.** The organizer is Erin Cole, Las Vegas Valley Water District. McInnis motioned to assign **three (3) CECs**, Waldroop seconded. The vote was all in favor.

#### D) Review of Documentation

**Teresa Danovich, #10245** submitted:

Documentation for **“Vapor Intrusion Pathway: A Practical Guideline” 16 hours**, sponsored by **ITRC**, taken **October 7-8, 2008, in Portland, Oregon**. The instructors are John Boyer, New Jersey Department of Environmental Protection; Bill Morris, Kansas Department of Health and Environment; Blayne Hartman, Soil Gas and Vapor Intrusion Support; Todd McAlary, GeoSyntec Consultants; and David Folkes, EnviroGroup Limited. McInnis motioned **not to assign CEC**, Waldroop seconded. The vote was all in favor.

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**Gary Coonse, #1780** submitted:

- Documentation for the **online course “Basics of Water Resources: Groundwater Contamination” two (2) hours**, sponsored by **Red Vector**, taken November 4, 2008. Waldroop motioned to assign **two (2) CECs**, Daugherty seconded. The vote was all in favor.
- Documentation for the **online course “Worksite Safety 07: OSHA Power Tools & Excavations” one (1) hour**, sponsored by **Red Vector**, taken November 5, 2008. McInnis motioned to assign **one (1) CEC in the safety/first aid/CPR category**, Daugherty seconded. The vote was all in favor.

E) Public Comment

There was no public comment.

F) Future Meeting

TBA

Adjourn.