

MINUTES
Well Constructor Continuing Education Committee
June 26, 2014

Teleconferencing Committee Members: Greg McInnis, Warren McCann , Angela Garner
Committee Members Present: Joel Jeffery
Others Present: Laurie Norton

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

B) Other Issues It was mentioned that at the next meeting the vice-chair would be elected.

C) Review of Applications

The Cont. Ed. Committee reviewed the courses that comprised **December 4 and 5, 2013** from the **“2013 NGWA Ground water Expo”** held in **Nashville Tennessee (TN)**. The courses were reviewed as follows:

- **“Groundwater Availability in Karst Aquifers of the Southeastern United States”**; **one and one-half (1.5) hour, December 4, 2013**. **The class was divided into four (4) parts, each approximately twenty (20) minutes in length as follows:** **Mathematical Model Approach for Karst Aquifers** ; the instructor was Eve L. Kuniansky, U. S. Geological Survey;
- **Groundwater Availability Study of the Floridan Aquifer System**, the instructor was Andy O’Reilly, Florida Integrated Science Center, U. S. Geological Survey; or
- **“Groundwater Development Issues in Complex Aquifers of Tennessee, Alabama, and Kentucky”**, the instructors wre Michael Bradley, U.S. Geological Survey and John K Carmichael, Water Resources Division, U.S. Geological Survey; **Microbes, Biogegradation, and Contaminant Transport in Karst Aquifers**, the instgstructor was Tom Byl, U.S. Geological Survey; **Discussion**, instructor was Eve L. Kuniansky, U.S. Geological Survey. Angela Garner motioned to assign **one and one-half (1.5) CECs**, Greg McInnis seconded. The vote was all in favor.
- **“High Capacity Well Design, one and one-half hour (1.5)**, the instructor was Donald Hanson, Clear Creek Associates. Warren McCann motioned to assign **one and one-half (1.5) CEC ‘s** , both Joel Jeffery and Angela Garner seconded. The vote was all in favor.
- **“NGWA Washington Update”**, **one and one-half hour (1.5), December 4, 2013**. The instructor was Christine Reimer, Director NGAW Government Affairs Program. Warren motioned to assign **one and one-half (1.5) CEC**, Greg seconded. The vote was all in favor.
- **“Engineering a Better Gravel Pack” one and one-half (1.5) hour, December 4, 2013**. The instructor was Reomjard A. Klaus, Hydrogeologist, Sigmund Linder. Angela motioned to assign **one and one-half (1.5) CEC**, Joel seconded. The vote was all in favor.
- **“Properly Conducting a Pump Test” one and one-half (1.5) hour, December 4,**

2013. The instructor was David L. Kill, ITT, Shoreview, MN. Angela motioned to assign **one and one-half (1.5) CEC's**, Greg seconded. The vote was all in favor.
- **“Protecting and Preserving the Private Well Option: A Success Story”, one and one-half (1.5) hour, December 4, 2013.** The instructor was Phillip Bednarek, MGWA Board, MGWA, Grand Rapids, MI. Angela motioned to assign **one and one-half (1.5) CEC's**, Greg seconded. The vote was all in favor.
 - **“Planned Giving”, one (1) hour, December 5, 2013.** The instructor was F. David Resch, Resch and Root LLC. Angela motioned to assign **one (1.0) CEC**, Greg seconded. The vote was all in favor.
 - **“State Groundwater Management and Policy: A Two-State Scientific Perspective”, one (1.0) hour, December 5, 2103.** The instructors were Mfaron Coo, Hydrogeology Group, Geological Survey of Alabama, and David W. “Woody” Hicks, Joseph W. Jones Ecological Research Center, Newton, GA. Greg motioned to assign **one (1.0) CEC**, Angela seconded. The vote was all in favor.
 - **“ANSI/NGWA Water Well Construction Standard: Siting to Sampling”, two (2) hours, December 5, 2013.** The instructors were Jessica Rhoads, Industry Practices Administrator of NGWA, Steven B. Gross, PMA, PE, R&D and Technical Services, CertainTeed, Valley, PA, Kevin McGillicuddy, Roscoe Moss Co, Los Angeles, CA., and Tom Christopherson, Program Manager, Water Well Standards Program, Nebraska. Greg motioned to assign **two (2.0) CEC's**, Warren seconded. The vote was all in favor.
 - **“Driver Qualifications and Fitness – Complying with the FMCSA Program, two (2) hours, December 5, 2013.** The instructor is was Gary LeBrake, On the Road. Angela motioned to assign **two (2.0) CEC's** in the general category. Warren seconded. The vote was all in favor.
 - **“Hydrogeologic Logging and Lab” two (2) hours December 5, 2013.** The instructor was Thomas Hanna, RPG, Johnson Screens. Greg motioned to assign **two (2.0) CEC's**, Joel seconded. The vote was all in favor.
 - **“Innovative Drilling Fluid Concepts for Vertical Drilling Applications” two (2) hours, December 5, 2013.** The instructor was George M. Dugan, CETCO Drilling Products. Warren motioned to assign **two (2.0) CEC's**, Joel seconded. The vote was all in favor.
 - **“OSHA and Us, Are We There Yet?” two (2) hours, December 5, 2013.** The instructor was Dennis Crayon, Certified Health & Safety Technician, Experience Safety Institute. Greg motioned to assign **two (2.0) CEC's** in the safety category. Warren seconded. The vote was all in favor.
 - **“Hand Protection – One Glove Does Not Fit All (Jobs)” two (2) hours, December 5, 2013.** The instructor William Glenn Jr., PG, Trihydro Corporation. Angela motioned to assign **two (2.0) CEC's** in the safety category. Greg seconded. The vote was all in favor.
 - **“Scientific Research and Technical Assistance to Private Well Owners Part 1” two (2) hours, December 5, 2013.** The moderators were William M. Alley, PH.D., NWGA Science and Technology Director, National Ground Water Association, and Cliff Treyens, NGWA Public Awareness Director, National Ground Water

Association. This class was divided into six (6) parts of twenty (20) minutes each as follows: **Social Media and the Internet as a Way to Communicate with Private Well Owners**, the instructor was Maben Rainwater, ruralwaterresources.com, Sebastopol, CA; **Rhode Island Private Well Owners Take Action to Protect Their Drinking Water and Their Families**, the instructor was Aluson McCann, Natural Resources Science, University of Rhode Island, **An Assessment of Private Wells Used for Drinking Water in Mississippi**, the instructor was Jason Barrett, Center for Government and Community Development at Mississippi State University; **Private Well Water Quality in Georgia: Chemical and Microbiological Aspects**, the instructors were Uttam Saha, Agricultural and Environmental Services Laboratories, University of Georgia, Leticia Sonon, Agricultural and Environmental Services Laboratories, University of Georgia, David Kissel, Agricultural and Environmental Services Laboratories, University of Georgia; **Baseline Water Quality in Groundwater Wells Across the Marcellus Region of Pennsylvania**, the instructors were Bryan Swistock, Ecosystem Science and Management, Penn State University and James Clark, Penn State Extension, Smethport, PA; **WQA Final Barrier Initiative to Empower Private Well Owners**, the instructor was **Pauli Undesser, CWS-VI, Water Quality Association, Lisle, IL**. Greg motioned to assign two (2.0 CEC's, Angela seconded. The vote was all in favor.

- **“Scientific and Technical Assistance to Private Well Owners Part 2” three (3) hours, December 5, 2013.** The moderators were William M. Alley, Ph.D, NWGA Science and Technology Director, National Ground Water Association, and Cliff Treyns, NGWA Public Awareness Director, National Ground Water Association. The class was divided into **8 parts of twenty (20) minutes** each as follows: **National Assessments of Groundwater Quality in Principal Aquifers**, The instructors were Leslie A. DeSimone, Ph.D. U.S. Geological Survey. Peter B. McMahon, Ph.D., USGS, Denver. CO, Michael Rosen, Ph.D, U.S. Geological Survey, Carson City, NV, and Barbara J. Mahler, Ph.D., U.S. Geological Survey; **PrivateWellClass.org Online Technical Assistance Program for Private Well Owners**, the instructors were Steven D. Wilson, Illinois State Water Survey at the Prairie Research Institute, University of Illinois, Champaign, IL, Jennifer Wilson, Illinois Water Resources Centre, University of Illinois, Cassia Smith, Illinois State Water survey at the Prairie Research Institute; **The Continued Importance of Well Development**, the instructor was Michael “Mike” Schnieders, PG, PH-GW, Water Systems Engineering Inc., Ottawa, KS; **Arsenic Exposure Assessment in a New Mexico Community on Well Water**, The instructors were Leilani Schwarcz, MPH, Environmental Health Epidemiology Bureau/NM EPHT, New Mexico Department of Health, Santa Fe, NM, BarbaraToth, Ph.D., D.A.B.T/, Environmental Health Epidemiology Bureau/NM EPHT, State of New Mexico Department of Health, Albuquerque, NM, Heidie krapfl, Environmental Health Epidemiology Bureau, New Mexico Department of Health, Santa, Fe, NM, and Deyonne Sandoval, CHES, Environmental Health Epidemiology Bureau/NM EPHT, State of New Mexico Department of Health, Albuquerque, NM; **What’s in Your Water? The Virginia Household Water Quality Program and Master Well Owner Network**, the

instructors were Erin Ling, Biological Systems Engineering, Virginia Tech/Virginia Cooperative Extension, Blacksburg, VA, and Brian Benham, Ph.D., Biological Systems Engineering, Virginia Tech/Virginia Cooperative Extension, Blacksburg, VA; **Management Solutions for Monitoring Groundwater Quality and Assisting Private Well Owners**, Brian Ham, PG, EnSafe Inc., Nashville, TN; **Complying with the Revised Total Coliform Rule – the Importance of Well Maintenance**, the instructor was Neil Mansuy, Technical Services Department, Subsurface Technologies Inc., Kansas City, MO; **Design and Initial Results for a Statewide Groundwater Pathogens Study**, the instructor was David Jackson, PG, Kentucky Department for Environmental Protection. Warren motioned to assign **three (3.0) CECs**, Greg seconded. The vote was all in favor.

- **“How Mobile Are You: BYOD”, one (1) hour, December 5, 2013**, the instructor was Mark Kibble, MCSE, CDPS, Director Information Technology, NGWA . Greg motioned to assign **one (1.0) CEC**, Angela seconded. The vote was all in favor.
- **“Strategies for Addressing Groundwater Contamination” one (1) hour, December 5, 2013**. The moderators were Joseph Quinnan, PE, PG, Arcadis G & M of Michigan LLC, and Daniel J. St. Germain, PG, Arcadis U.S. the class was divided into three (3) parts of twenty (20) minutes each as follows: **High-Resolution Characterization of a Large, Complex Chlorinated Solvent Plume to Support Remedy Implementation**, the instructor was Kira Lynch, ORD, OSP, US EPA, Seattle WA; **WQRF Environmental Impact Study: Water Softener Effects on Septic Tank Performance**, the instructor was Pauli Undesser, CWS-VI, Water Quality Association, Lisle, IL; **Regional Distribution Patterns of TDS and Heavy Metals in Groundwater at Damascus City**, the instructor was Mohamed Elkashouty, Science Geology, Cairo, Egypt. Angela motioned to assign **one (1.0) CEC**, Joel seconded. The vote was all in favor.
- **“Resume Writing for Graduate and Undergraduate Students”, one and one-half hour**, the instructor was Melissa Lenczewski, Ph.D., Northern Illinois University, DeKalb, IL. Angela motioned to assign **one (1.5) CEC’s**, Greg seconded. The vote was all in favor.
- **“You Had Me at Hello!” one and one-half one (1.5) hour, December 5, 2013**. The instructor was Julie Hansen, Acting for Sales, LLC, Denver, CO. Both Joel and Angela motioned to assign **one and one-half (1.5) CEC’s**, Greg seconded. The vote was all in favor.
- **“Hydraulic Fracturing for Oil and Gas Development,” one (1) hour, December 5 2013**. The class was divided into three (3) parts consisting of twenty (20) minutes each as follows: **Improve operational Performance and Increase Public Awareness Through Water Quality Monitoring Near Hydraulic Fracturing Operations**, the instructor was Laura St. Pierere, YSI Inc., Yellow

Springs, OH; **Local and Regional Water Supply Planning to Evaluate and Manage Hydrofracking for Shale Gas Development**, the instructor was Carrie Blankenship, PG, Draper Aden Associates; **Geological and Water Monitoring Considerations for Hydraulic Fracturing Candidate Sites in Tennessee**, the instructor was Randy Curtis, RPG, Gresham, Smith, and Partners. Greg motioned to assign **one (1.0) CEC**, Joel seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed some courses that were offered at the **“IGWA CEC Workshop”**, held **April 25, 2014, in Lewiston, Idaho (ID)**. The Workshop was sponsored by the **Idaho Ground Water Association**. The courses were reviewed as follows:

- **“Water Quality: Areas of Concern” - Idaho DEQ Water Quality Programs”, one (1) hour, April 25, 2014.** The instructor was John Cardwell, Washington State University, Bureau of Reclamation, Pittsburgh Testing Laboratories, Reidel Environmental Services, Oregon DEQ, Greg motioned to assign **zero (0.0) CEC**, Angela seconded. The vote was all in favor.
- **“Study on Well Construction Standards of Idaho” one and one-half (1.5) hours, April 25, 2014.** The instructor was Dale Ralston, Professor Emeritus of Hydrogeology, University Idaho. Warren motioned to assign **zero (0.0) CEC**, Joel seconded. The vote was all in favor.
- **“Washington Rules & Regulations” – Over view of Washington State Well Construction Standards, one (1) hour, April 25, 2014.** The instructor was Mark Ader, BS Geology WSU, Washington State Licensed Geologist/Hydrogeologist. Warren motioned to assign **zero (0.0) CEC**, Greg seconded. The vote was all in favor.
 - **“Idaho Rules & Regulations for Well Drilling”, one (1) hour, April 25, 2014.** The instructor was Tom Neace, B.S., M.S Geology, Idaho RPG, Manager of Ground Water Protection , Idaho Department of Water Resources. Greg motioned to assign **zero (0.0) CEC**, Angela seconded. The vote was all in favor.
- **“Lewiston Ground Water management Area” one (1) hour, April 25, 2014.** The instructors were Al Beardslee, Idaho Department of Water Resources Well Construction Program, Keith Franklin, BS Agricultural Engineering, Ken Neely, Technical Hydrogeologist, Idaho Department of Water Resources. Angela motioned to assign **one (1.0) CEC**, Warren seconded. The vote was all in favor.
- **“Round Table Discussion” one and one-half (1.5) hour, April 25, 2014.** The instructors were Al Beardslee, Idaho Department of Water Resources, Eric Forsmann, Board member of Idaho Ground water Association, Tom Richardson, licensed well driller in Idaho, Washington, and Montana, President of H2O Well Service, Inc., on board of directors for Washington Ground Water Association, Tom Neace, Ground Water Protection Section Manager, Idaho Department of Water Resources. Angela motioned to assign **zero (0.0) CEC**, Warren seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed some courses that are scheduled to be offered at the **“National Drilling Association 2014 Convention”** to be held **October 9 – 10, 2014, at Great Wolf Lodge, in Mason Ohio (OH)**. The courses reviewed are as follows:

- **The Convention is broken out into the following time frames:**
 - **“Bentonite Slurry on Transmission Line Project In Frozen Wetlands” 45 minutes (0.75) hour, October 10, 2014.** The instructor was John H. Berry, PG, Bariod Industrial Drilling Products. Greg motioned to assign **one-half (0.5) CEC**, Warren seconded. The vote was all in favor.
 - **“Drilling Using Bio Degradable Drilling Fluid”, forty-five minutes (.075) hour, October 10, 2014.** The instructors were Joyce and Geoff Norcross, Clear-Bore, Inc.. Angela motioned to assign **one-half (0.5) CEC**, Greg seconded. The vote was all in favor.
 - **“Drilling Safety: New MSHA and OSHA Developments” one (1) hour, October 10, 2014.** The instructor is Adele Abrams, Law Office of Adele L. Abrams, PC.
Warren motioned to assign **one (1.0) CEC** in the Safety Category. Joel seconded. The vote was all in favor.
 - **“Bridge Project Discussion”, one-half (0.5) hour, October 10, 2014.** The instructor is Kentucky DOT. Angela motioned to assign **one-half (0.5) CEC**, Warren seconded. The vote was all in favor.
 - **“Safety Advancements in Sonic Drilling Technology”, forty-five minutes(0.75) hour, October 10, 2014.** The instructor is Huug Eijkekkamp, SSD North America. Greg motioned to assign **one-half (0.5) CEC**, Joel seconded. The vote was all in favor.
 - **“Collecting Quality Acoustic Televiewer Data” one-half (0.5) hour, October 10, 2014.** The instructor is Doug Lambert, Geotechnology, Inc. Angela motioned to assign **one-half (0.5) CEC**, Greg seconded. The vote was all in favor.
 - **“Subsurface Investigation Techniques to Optimize Ground Improvement Projects” one (1) hour, October 10, 2014.** The instructor Steven Werling, Tensar-Dopier Foundations. Warren motioned to assign **one (1.0) CEC**, Greg seconded. The vote was all in favor.
 - **“Keystone Pipeline Project” one-half (0.5) hour, October 10, 2014.** The instructor Chuck Valente, Terracon. Greg motioned to assign **one-half (0.5) CEC**, Angela seconded. The vote was all in favor.
 - **“Issues for Drillers While Driving” forty-five minutes (0.75) hour, October 10, 2014.** The instructor Bob Kolvey, Safety Director for Mortor Carrier Compliance. Angela motioned to assign **one-half (0.5) CEC** in the Safety Category. Greg seconded. The vote was all in favor.

The Cont. Ed. Committee reviewed course offerings from **New Mexico Ground Water Association** for classes held **January 18, 2014**. The courses reviewed are as follows:

- **“Designing Production Wells to Optimize Performance & Efficiency” two (2)**

hours, January 18, 2014. The instructor was Kevin McGillicuddy, P.G., chief Hydrogeologist, Roscoe Moss Company. Greg motioned to assign **two (2.0) CEC**, Joel seconded. The vote was all in favor.

- **“GPS Units: I Turned It On – Now What?” one (1) hour, January 18, 2014.** The instructor was Kevin Meyers, NMOSE Hydrology Bureau. Greg motioned to assign **one (1.0) CEC**, Joel seconded. The vote was all in favor.
- **“Case Studies: Artesian Conditions w/No Prior Knowledge” one (1) hour, January 18, 2014.** The presenter was Ryan Killingsworth, Holman’s GPS Trainer. Angela motioned to assign **one (1.0) CEC**, Joel seconded. The vote was all in favor.
- **“Excavation Law for Excavators” one (1) hour, January 18, 2014.** The instructor was Gary R. Sloman, Executive Director of New Mexico One Call, Inc., dba NM811. Angela motioned to assign **zero (0.0) CEC**, Warren seconded. The vote was all in favor.
- **“Wire Rope inspection, Satefy & Federal Regulations” one (1) hour, January 14, 2014.** The instructor was Don Detlefsen, industry expert on wire rope safety, inspection and Federal regulations. Warren motioned to assign **one (1.0) CEC** in the Safety Category. Greg seconded. The vote was all in favor.

D) Review of Documentation

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

- **“Signal Person Qualification Training/Rigger Qualification Training” – Federal OSHA 1926.1428 OSHA, 1926 Subpart CC, November 26/2013.** The instructor was Clint Von Aushall. Greg motioned at assign **eight (8.0) CEC’s**, Angela seconded. The vote was all in favor.
- **“Crane Safety Refresher Training” under OR-OSHA (Division 3, Chapter 437), November 26,2013, The instructor was Clint Von Aushall. No continuing education credits assigned. More information would be needed.**

E) Public Comment

F) Future Meeting

TBD

Adjourned at: 9:55 a.m.