THE DRILLSTEM  
COLORADO WATER WELL CONTRACTORS ASSOCIATION

NEW CWWCA EDUCATION CURRICULUM

Program Committee Chair, Keith Branstetter, would like to announce that CWWCA is developing a new curriculum for our upcoming conferences over the next few years that will provide CWWCA an opportunity to assist water well professionals in preparing to pass the following NGWA certifications:

* Certified Well Driller (CWD)
* Certified Pump Installer (CPI)
* Certified Sales Professional (CSP)

It is designed to demonstrate pride in your job and to promote professionalism in the groundwater industry. By participating in this program, your commitment to advancing knowledge and skill in the groundwater industry is recognized by the public, regulatory officials, and the scientific community.

Being certified:
* Promotes confidence to the consumers in your market
* Gives you local, state, and national recognition
* Exemplifies your dedication to professionalism
* Ensures you keep current in the industry with continuing education
* Affords you a competitive edge

(Continued on page 3)
ADVERTISING INFORMATION

DRILLSTEM ADVERTISING

Advertising rates for the Drillstem, a quarterly publication of CWWCA
(Published March, June, September, and December)
Classified ads are $1.00 per 3.5-inch line.

<table>
<thead>
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<th>Number of Issues</th>
<th>1</th>
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One-Year Banner Advertisement: $100.00
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CWWCA members may choose to upgrade their listing in the searchable member’s directory.
Upgrading allows your listing to be displayed at the top of searches and sorts. It allows your listing to link to your website. And upgrading allows you to display your logo or picture of your choice with your listing.

One-Year of Directory Upgrade: $50.00
Pictures for the listing should be submitted in .jpg format and should be 225 pixels wide, by 150 pixels high.

CWWCA CONTACTS

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WEBSITES

Colorado Water Well Contractors Association
www.cwwca.org

American Ground Water Trust
www.AGWT.org; privatewell.com

Board of Examiners
www.water.state.co.us/boe/

Colorado Ground Water Association
www.coloradogroundwater.org

National Ground Water Association
www.ngwa.org

World Wide Drilling Resource
www.worldwidedrillingresource.com

CWWCA CALENDAR OF EVENTS

April 7, 2017 Board of Directors Meeting, Chase Bank Building
April 7, 2017 TWG Meeting, Chase Bank Building
May 1, 2017 BOE Meeting
July 14-15, 2017 Mid Year Conference, Beaver Run Resort, Breckenridge, CO
August 7, 2017 BOE Meeting
November 6, 2017 BOE Meeting
The 2017 annual conference was a success. A special thanks to all of those individuals that make sure everything runs smoothly; Karie Walker, Mary Beth Valentine, our Program Committee, and the numerous members of the board and association. The two day format continues to be popular with the membership in general, allowing for 8 hours of continuing education as well as the vendor show and the scholarship auction in the most efficient way possible. The Buck Lively auction was well planned and executed as always. Thank you to all members that stayed and supported the fund raising efforts. It all goes to support the education of the individuals that represent the future of our industry, money well spent in my opinion.

CWWCA membership voted to continue the efforts to convince the State to hire additional well inspectors for the well inspection program. The well inspection program functions to ensure that the groundwater resource is protected with adherence to the construction rules. I believe the support the CWWCA has shown for enhanced inspection speaks strongly for the integrity of its members and their commitment to the protection of the groundwater resource. Special thanks to Joe Meigs, Legislative Committee Chair; Dan Niemela, Public Relations Committee Chair; and Dick Brown, CWWCA Lobbyist, for the countless hours spent working behind the scenes.

The state has opened the BOE rules for review in 2017. I would strongly encourage the membership to follow the process through the series Stakeholder’s meetings and provide feedback. Unlike the majority of rule changes that we as business professionals face, we have been given the opportunity to participate and have input in the rules that govern us. If you are not receiving the notifications for the Stakeholders meetings please visit the following link to sign up: https://www.dwr.state.co.us/OnlineTools/NotificationServices/Login.aspx

Have a great spring season and I look forward to seeing you at Breckinridge in July.

Bryan Beckner
CWWCA President

If you have questions about NGWA certification, contact the NGWA certification coordinator at certification@ngwa.org or call 800 551.7379 or (614 898.7791 outside the United States.

The Certified Sales Professional designation is specifically intended for supplier and manufacturer owners, operators, and employees. Earning the CSP designation is a remarkable way to demonstrate your commitment to enhancing industry professionalism and providing good customer service!

Stay tuned for more information on this coming in the June Drillstem!
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Division of Water Resources
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(Continued on page 9)
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(Continued on page 11)
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ON BEHALF OF CWWCA
WE VALUE YOUR GENEROUS SUPPORT
BUCK LIVELY SCHOLARSHIP PROGRAM

The Colorado Water Well Contractors Association (CWWCA) Buck Lively Scholarship Program is made available to assist and encourage the education of qualified individuals.

Eligibility
1. The Applicant must be a CWWCA member or sponsored by a CWWCA member.
2. An Applicant currently enrolled or planning to enroll in a full time course of study at and accredited two or four year college, university, or vocational/technical school, and who is accepted by the institution during the applied scholarship year.
3. The Applicant must have a High School GPA of 2.5 and maintain a GPA of 2.0 in their course work.
4. The Applicant must not have already received the maximum of five CWWCA Eligibility scholarship awards.

How to Apply
The applicant must submit a completed application along with all required attachments to Buck Lively Scholarship Program (download the application at http://cwwca.org on the Scholarships page under the Education tab) to the CWWCA office or to the Scholarship Committee before March 31st. Incomplete applications will disqualify an applicant.

How Applicants are Selected
Scholarship Selections will be based on the following:
1. Scholarship application completeness. Incomplete applications and missing attachments will invalidate an application. Corrections and additions may be submitted up to the submittal deadline.
2. Applicants who have submitted Progress Reports after being awarded a scholarship in previous years will be given preferential scoring.
3. Written recommendations from non-family members. Recommendations should be current, having been written within the last year before application.
4. Academic Record. An Official Transcript must be included for the application to be considered. Unofficial transcripts will not be accepted and may be grounds for disqualification.
5. Educational and Career Goals Statements. One page, single sided essay, 200 word minimum, in word format. Preference will be given based on relevance to the ground water industry.
6. Sponsor. The sponsor or the applicant must be a CWWCA member. Preference will be given to members and family of members, as well as employees and family of employees of CWWCA members.

Submittal
All Applications and attachments must be submitted to:

CWWCA Scholarship Program
1540 S. Holly St. Suite 5
Denver, Colorado 80222
Phone: 303-759-2294
Fax: 303-757-0158
email:execdir@cwwca.org
Colorado Water Well Contactors Association
Buck Lively Scholarship Application

Section 1: Personal Information

Name

Today’s Date

Address

City State Zip Code

Parent’s Telephone Student’s Cell Phone Date of Birth

Student’s Email

Section 2: Academic Information

High School Name HS Graduation Date

HS Address, State, Zip Code HS GPA

HS Field of Study or Area of Interest

University/College/Trade School Name Expected Grad Date

College Address, State and Zip Code College GPA

Current or Anticipated Field of Study or Degree Program

Section 3: Sponsor

CWWCA Member Sponsor’s Name Relationship to Applicant

Sponsor: I have reviewed this application and confirm that information is accurate to the best of my knowledge.

Sponsor’s Signature Date
Section 4: **Attachments**

**Mandatory Attachments to Mail:**

1) Your most recent Official Academic Transcript. Unofficial Transcripts will not be accepted.
2) A minimum of two (2) current written recommendations from individuals that are not direct family members.
3) Educational and Career Goals Statement. One page, single side essay, 200 words minimum in a WORD DOCUMENT labeled with your name. Please also EMAIL this document to execdir@cwwca.org.

**Mandatory Attachments to Email:**

4) Recent Photo of yourself.
5) We require a concise, Mid-Year Progress Report, no more than 2 paragraphs, in a Word Document with Official Transcript by January 21st of the year following when you receive scholarship funds.
6) If awarded a scholarship, we require a short 1 minute JPEG video of yourself, explaining how the scholarship has helped you and your academic success. Feel free to have fun with this video. We need this video by December 1st of the year awarded funds. We will use this for various events to help raise further funds for the Buck Lively Scholarship Fund.

Applications must be postmarked and career goals statement must be emailed by March 31st. Incomplete applications will be disqualified.

**CWWCA Scholarship Program**
1540 S. Holly Street #5
Denver, CO 80222
Phone: 303-759-2294
Email: execdir@cwwca.org

I, ____________________________, as an applicant for the CWWCA Buck Lively Scholarship, attest that the information provided in this application, and all submitted attachments are accurate and true to the best of my knowledge.

_________________________________________  ______________________
Applicant’s Signature                        Date
BOE Administrative Rulemaking Process and Links

The Rules and Regulations for Administration of Licensing, Financial Responsibility, Continuing Education and Remedial Action 2 CCR 402-14 (BOE Administrative Rules) are open for revisions in 2017 and the rulemaking process has begun! Please visit the Rulemaking webpage for important updates.

2017 BOE Administrative Rule Rulemaking Process Webpage:
http://water.state.co.us/groundwater/BOE/Pages/RulemakingBOEAdmin.aspx

Staff of the Board of Examiners held a public stakeholder meeting Wednesday February 22, 2017. Minutes from the meeting are available on the BOE Administrative Rulemaking Webpage. Staff will present a “red-line” version of the Rules to the Board of Examiners at their May 1, 2017 Board Meeting.

A second Stakeholder Meeting will be held in May, 2017 to discuss the red-line and comments and suggestions from the Board. The meeting information will be announced via the notification listserv.

BOE Administrative Rulemaking Notification Listserv:
- If you have already signed up for the Well Construction Rulemaking Listserv then you are already signed up on this listserv
- If you did not receive emails about our previous Well Construction Rulemaking, go to:
  https://www.dwr.state.co.us/OnlineTools/NotificationServices/Login.aspx
- You may need to create a New Notification Online Account
- Once you have created an account or signed in you will need to select “BOE Administrative Rulemaking” from the list
- If you do not want to receive notices for the BOE Administrative Rulemaking, you may unsubscribe from the BOE Administrative Rulemaking Listserv

The Board and Staff will review the Rules in their entirety, but will focus on these topics:

- Incorporate all BOE Policies applicable to the Admin Rules
- Incorporate cistern installation contractors
- Rule 6.7 et seq., eliminate examination requirements for private drillers and pump installers
- Rule 7, Financial Responsibility - increase bond amounts $20,000 in state/$40,000 out of state
- Rule 8, Continuing Education - minor updates, consider inactive status, CE for retirees
- Rule 9.4, Board will adjust fine schedule via Policy concurrently with Rulemaking
- Rig operators: registration, rules exam/evaluation, continuing education/internal training
- Expedited licensing for current Colorado licensed contractors amending their license
- Address reciprocity for other states, military experience (House Bill 16-1197)
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Well, another quarter has come and gone. I hope everyone finds this information useful, and hopefully you will never have to use it. Today I would like to discuss Heart Attacks and Strokes. Although this is not directly safety related I feel it is important to discuss because of the possible outcomes from either of these medical emergencies. A poor outcome can have a major impact on our lives, personally and professionally. In either case one of the most important things that will have the biggest impact on surviving and quality of life is early recognition and treatment.

Let’s talk about Heart Attacks first, medically known as an Acute Myocardial Infarction or AMI. Without going into too much detail I feel it is important to have some idea what is happening when we are having a heart attack. Heart attacks can have several causes; one is electrical, meaning that there is a problem with the electrical conduction system in our heart. The other is a mechanical problem, such as a blocked artery. Think of it as a blocked fuel line. While the cause is very different, the results will end up the same if left untreated. It will result in either severe damage to the heart or death. The pain is caused from the heart muscle not getting enough oxygen to keep the tissue alive. Approximately 40% of people who have a heart attack do not reach the hospital alive.

Signs that you may be having a heart attack include, chest pain or discomfort, nausea or vomiting, profuse sweating, weakness, shortness of breath and irregular heartbeat. The pain can be a crushing pain or pressure in the middle of the chest. The pain can radiate down one arm, usually the left or it can be felt as a sharp pain in the back. They probably suspect that they are having a heart attack but refuse to admit it. If you see someone who is having a heart attack they will appear pale, cool and sweaty. If the pain goes away with rest, the condition is called Angina Pectoris. Although not as

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severe as a heart attack, it should be followed up with your doctor. A true heart attack is not relieved by rest. If you have a history of heart attack you should have Nitro Glycerin pills that you can take. If no history is present and you suspect someone is having a heart attack give them 4 baby aspirin if it is available and they can take aspirin.

The biggest thing I can stress is to seek immediate help. The biggest sign that someone is having a heart attack is denial. The longer the delay in seeking help the more damage being done to the heart muscle. Once cardiac muscle dies it cannot be replaced.

Some of the things you can do to try to prevent a heart attack are diet and exercise. Make regular appointments to see a Dr. for checkups. Quit smoking and try to avoid stress. There is a lot of literature available on dieting and exercise.

A Stroke is a type of brain injury. There are 2 types of increased pressure inside the skull. This type is usually preceded by a sudden sharp excruciating headache. An ischemic stroke is caused by a blocked blood vessel in the brain causing reduced blood flow and cellular death. This is the most common type of stroke. It is impossible to determine the exact type of stroke without a CT scan. Therefore it is imperative to get the person to the hospital as soon as possible. There is a saying in stroke care, time is brain. With prompt care, the outcome from a stroke can be good. There is a 3 hour window for giving the clot busting drugs for a stroke, which is why it is important to note the time of onset of symptoms. Or as they say, the last time the person was known to be normal. This is one of the most important things for the hospital staff to know.

Signs of a stroke include sudden severe headache, change in responsiveness, slurred speech, weakness on one side of the body, facial drooping, loss of balance, sudden change in vision, difficulty swallowing, slurred speech, dizziness and confusion. The signs will probably be sudden onset if the stroke is witnessed. The most important thing is to recognize these signs and seek immediate medical help. Look for facial droop, ask them questions and listen to their speech, have them squeeze your hands and notice any weakness to either side. Hold their arms out in front of them and see if they can hold both arms out. If any of these signs are present you should suspect a stroke and seek medical help. Do not give anything by mouth and definitely do not give aspirin. If the stroke is hemorrhagic, this will only make things worse.

The most important thing to remember is to seek help if you suspect either a heart attack or stroke.

Hope this information helps.
TWG Meeting Recap

Crowne Plaza DIA
Denver, CO

January 11, 2017 - Draft

Next TWG Meeting:

April 7, 2017 10:00 – 11:00 AM
Basement Conference Room
333 West Hampden Ave.
Englewood, CO

Attendees:

Daniel Niemela, Bryan Beckner, Ken Burk, Keith Branstetter, Bruce Heir, Matt Waller, Mike Temple, David Wilson, Doug Stephenson, Tom Harder, Joe Meigs, Gene Wagner, Andy Horn, Fred Baros

Moderator for January 2017 Meeting:

Gene Wagner

Proposed Moderator for April 2017 Meeting:

Joel Canfield

Improving Communication Between Contractors and Engineers

Dave Wilson suggests training with NGWA to facilitate communication and common set of language for contractors and engineers. Concern is to educate junior engineers and geologists about practical challenges in the field. It was suggested that coordination with colleges and universities could be an avenue to improve communication. It was suggested that CWWCA conferences would be another venue for training.

Well Inspection Program

The CWWCA’s efforts to gain funding for the well inspection program via new legislation has reached an impasse, summarized in the Fall 2016 CWWCA Drillstem. To raise awareness, CWWCA will be working on talking points regarding the well inspection program and a fact sheet that describes the need for Statewide well inspection.

Variance Request Forms

Draft variance request forms for gallery-type wells, Type III aquifer grouting and proximity to source of contamination were circulated for comment. Those forms will be added to the CWWCA website in first quarter 2017. It was requested (following the TWG meeting) that a variance request form for wellhead below grade also be prepared.

DWR Update

Well permit applications during calendar year 2016 totaled 6,189, which is up more than 20% from 2015. New exempt permits during calendar year 2016 were 4,258, which is up nearly 35% from 2015. New exempt permits during calendar year 2016 were 4,258, which is up nearly 35% from 2015. Permit data are summarized below:
S4,000 – S30,000 SEMCO Pump Hoists

1 - 6" Pipe Elevators w/ Metal Bales
6" - 16" HD Pipe Elevators w/ Cable

S110H Hydrorench 1-10"

1-2", 2 1/2-4J&K Kwik Klamp
BOE Administrative Rules are being opened for review and revision. Currently, comments are being requested and can be submitted via AskDWR:  http://www.dwr.state.co.us/OnlineTools/AskDWR.aspx

You can sign up for notifications regarding Administrative Rules review here: https://www.dwr.state.co.us/OnlineTools/NotificationServices/Login.aspx

The goal is to have a stakeholders meeting during February or March. A topic that may be reviewed is bond amount.

Derek Turner has resigned from the Attorney General’s Office. Emma Shultz is taking over representing the BOE and staff for the Attorney General’s Office.

AQUAMap has been retired. The State’s new Mapview includes most, but not all of the AQUAMap tools. Mapview tools are identified here: http://water.state.co.us/DATAMAPS/GISANDMAPS/MAPVIEWER/Pages/FAQ.aspx

DWR is working on the PLSS to UTM (and vice versa) conversion tools.

It was suggested that the DWR provide a presentation at the CWWCA 2017 Midyear and 2018 annual convention regarding new online tools, such as DWR submittals and Mapview.

Future Topics
Cross-training of contractors, engineers, geologists and suppliers
DWR report
Well inspection program

Respectfully submitted by Daniel O. Niemela
Employee or Independent Contractor?

Hiring an independent contractor offers employers many advantages. Unlike for traditional employees, employers do not pay taxes on independent contractors’ wages, and are not expected to provide benefits. In addition, as independent contractors are generally hired for a specific period or project, employers have no obligation to rehire them after each contract period or project is complete. **HOWEVER, there are certain risks and “gotcha moments” to be aware of when you hire Independent Contractors!**

Who is an Independent Contractor?
As a general rule, the more an employer controls the work of an individual, the more likely that individual is the employer’s employee. It is generally accepted that employers can control or direct the result of the work done by independent contractors, but not the means and methods by which contractors choose to accomplish each assignment. Additionally, employers do not supervise a contractor’s work as they would monitor an employee’s, nor do they usually provide the supplies or tools to the contractor. Nevertheless, there are some exceptions to the general rule regarding degree of control.

Advantages of Hiring Independent Contractors

- **Labor cost reduction** - Companies can get the same or better services for less money because there are no employment add-on costs.
- **Supplies and office space cost reduction** - Independent contractors provide their own equipment, materials and office space.
- **Liability reduction** - Employers are not automatically responsible for any injuries independent contractors may sustain while providing their services or for wrongful termination, job discrimination or sexual harassment lawsuits.

Disadvantages (“Gotcha Moments”) of Hiring Independent Contractors

Misclassifying employees as independent contractors is potentially a serious liability for employers. On one hand, this can expose employers to federal sanctions and investigations, state audits and penalties, and unexpected unemployment and workers’ compensation lawsuits.

On the other hand, perhaps the biggest unseen risk of independent contractors is related to insurance and work comp. The best case scenario is that misclassifying and independent contractor on your insurance results in an insurance audit where premium is due. Which can potentially amount to tens-of-thousands of dollars depending on the misclassification. The worst case scenario is much more grim—when there is a BAD DAY, no insurance coverage, and YOU the employer are personally on the hook for the Independent Contractor’s injuries as a “Statutory Employee”.

Statutory Employees
Statutory employees are workers who, by statute, must be considered employees, even when their work relationship with an employer looks more like that of an independent contractor. Various entities each have their own litmus test for this, but remember that Uncle Sam and Work Comp and Insurance are all different. FICA and FUTA purposes ARE NOT THE SAME AS FOR WORK COMP OR INSURANCE!

As an employer remember to be alert, be cautious, and be aware when you hire independent contractors.
Welcome Sophia

Gene, Vicki, and Sophia Wagner

Driller and/or Pump Installer Apprenticeship Program

Colorado Water Well Contractors Association (CWWCA) is a voluntary program for CWWCA members, developed to assist individuals that would like to obtain a water well driller license and/or a pump installation license in the state of Colorado. Records will be kept by the CWWCA and available to the applicant to provide proof of experience to the Board of Examiners (BOE) during the license application process.

Continuing education as it applies to the apprenticeship program must attain two continuing education hours: At the end of the apprenticeship, the apprentice must comply with the existing rules for continuing education as set forth in the BOE rules 2 CCR 402-14 concerning continuing education to obtain a drillers and/or pump installers license. A continuing Education form (similar to the one provided to the licensed contractors by the State during the renewal process each year) will be provided to the apprentice at the end of each calendar year so the CE’s earned can be documented.

For full information on this and other cwwca educational opportunities;
Go to CWWCA.org and look under education.
2017 CWWCA MEMBERSHIP APPLICATION

Last Name__________________________________First Name____________________________Initial_________

Company Name_________________________________________________________________________________

Address________________________________________________________________________________________

City_____________________________________________State_____________Zip Code_____________________

Telephone____________________________________Fax_______________________________________________

Other Phone Contact___________________________e-mail address______________________________________

DO YOU WISH TO HAVE YOUR NAME LISTED ON THE WEB PAGE? YES ( ) NO ( )

LICENSE # ________________ (WE MUST HAVE THIS TO PLACE YOU ON THE WEB PAGE)

YOU MUST check yes or no, otherwise we will assume that your answer is NO

PLEASE ENTER YOUR DISTRICT #_____

PLEASE CHECK THE APPROPRIATE MEMBERSHIP CATAGORY

____ 1. Drilling Contractor (owner or manager of a well drilling business) $195.00

____ 2. Pump Installation Contractor (owner or manager of a pump installation business) $195.00

____ 3. Drilling and Pump Installation Contractor (owner or manager of both businesses) $195.00

____ 4. Associate (any person or firm engaged in the manufacturing or selling of equipment services for the water well industry) $195.00

UPGRADE WEBSITE MEMBER LIST We must have your License Number ______ $ 50.00

____ 5. Technical (an hydrologist, geologist or engineer involved in teaching, research, consulting or government services concerned with the ground water industry) $ 75.00

____ 6. Retired (retired members wishing to retain membership privileges) $ 40.00

____ 7. Affiliate (professionals having an interest in the water well industry) $ 40.00

____ 8. Employees (employees of paid members—$20.00 each employee) $20.00

****Please list name and address of each employee at the top of the page $ 20.00

____ 9. Student $ 20.00

VOLUNTARY CONTRIBUTION TO THE CWWCA BUCK LIVELY SCHOLARSHIP FUND THANK YOU!!!! $____

$15.00 of your CWWCA dues is applied towards lobbying efforts on your behalf. The $15.00 is NOT tax deductible.

TOTAL $____

Method of Payment

Check #_________________________Amount_________________________

Credit Card _____VISA_____MASTER CARD_____DISCOVER_____AMERICAN EXPRESS

Credit Card #________________________________Expiration Date________

Name on Credit Card__________________________________________________________

Please return your remittance and completed Membership Form to
CWWCA _____1540 S. Holly St. #5, Denver, CO 80222
Phone: 303.759.2294 Fax: 303.757.0158 Email: execdir@cwwca.org
Moving Water is Our Business

Franklin Electric

2M Company, Inc. Denver
4370 Glencoe • Denver, CO 80216 • Phone: 303-320-4631

TOLL FREE: 800-336-4631
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MARK YOUR CALENDAR
CWWCA MID-YEAR CONFERENCE
BRECKENRIDGE, CO

FRIDAY AND SATURDAY
JULY 14-15, 2017
TWO DAYS!

COLORADO WATER WELL CONTRACTORS ASSOCIATION