You are cordially invited to the 2017 CWWCA Annual Conference  
January 11-13

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January 11-13

CONFERENCE ROOM RESERVATION INFORMATION

Hotel Information
Crowne Plaza DIA Convention Center
15500 East 40th Avenue
(I-70 and Chambers Road)
Denver, CO 80239

A Block of Rooms Has Been Reserved
MAKE YOUR ROOM RESERVATIONS DIRECTLY WITH THE CROWNE PLAZA HOTEL

1-866-378-1583
Mention Colorado Water Well Contractors Association Block Code WAT
Rates Apply 1/9/17-1/16/17 $112 Standard Room (Tax not Included)

Check in time: 4:00 pm
Check out time: 12:00 Noon

****This room rate will be held until December 30, 2016****

After that date, rooms will be reserved on a space available basis.
ADVERTISING INFORMATION

DRILLSTEM ADVERTISING
Advertising Rates for the Drillstem, A quarterly publication of CWWCA
(Published April, June, September, and December)
Classified ads are $1.00 per 3.5-inch line.

<table>
<thead>
<tr>
<th>Number of Issues</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Savings</td>
<td>0%</td>
<td>5%</td>
<td>10%</td>
<td>15%</td>
</tr>
<tr>
<td>Full Page 7&quot;x10&quot;</td>
<td>$250</td>
<td>$450</td>
<td>$675</td>
<td>$850</td>
</tr>
<tr>
<td>Half Page 7&quot;x5&quot;</td>
<td>$150</td>
<td>$285</td>
<td>$405</td>
<td>$510</td>
</tr>
<tr>
<td>Quarter Page 3.5&quot;x5&quot;</td>
<td>$90</td>
<td>$172</td>
<td>$243</td>
<td>$306</td>
</tr>
<tr>
<td>Business card 3.5&quot;x2&quot;</td>
<td>$50</td>
<td>$95</td>
<td>$135</td>
<td>$170</td>
</tr>
</tbody>
</table>

Help wanted ads will not be published.
Seeking employment ads will be published.
All rates for non-members are 10% higher.

COPIES MUST BE CAMERA READY OR TRANSMITTED ELECTRONICALLY (.doc, .pdf, or .jpg format)
Please be sure to include all borders in the given dimensions (width x height) at 600dpi.
Avoid using colors in the ads since the DRILLSTEM is printed in black and white.
For full formatting requirements, please visit our website at CWWCA.org.

SEND COPIES AND PAYMENT TO:
CWWCA
1540 S. Holly St. #6
Denver, CO 80222
E-mail: execdir@cwwca.org
303.759.2294

WEBSTIES

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.worldwidedrillingresouce.com

CWWCA CONTACTS

Executive Director
Karie Walker
CWWCA 1540 S. Holly St. #5
Denver, CO 80222
Phone: 303.759.2294
Fax: 303.757.0158
E-mail: execdir@cwwca.org

CWWCA Lobbyist
Richard G. Brown
Mobile: 303.601.9254
Phone: 303.695.6388
E-mail: dickscuba@gmail.com

CWWCA CALENDAR OF EVENTS

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 11-13, 2017</td>
<td>Annual Conference, CROWNE PLAZA, DIA, Denver, CO</td>
</tr>
<tr>
<td>January 12, 2017</td>
<td>TWG Meeting, Crowne Plaza, DIA, Denver CO</td>
</tr>
<tr>
<td>January 13, 2017</td>
<td>CWWCA Board of Directors Meeting, Crowne Plaza, DIA, Denver, CO</td>
</tr>
<tr>
<td>January 10-12, 2018</td>
<td>2018 CWWCA Annual Conference MARRIOT DENVER TECH CENTER</td>
</tr>
</tbody>
</table>

WEBSITE ADVERTISING

BANNER ADVERTISING
There is a banner advertisement on every page of the website. The advertisement rotates sequentially, so every ad will have equal display time. If the demand for banner advertisements warrants it, additional banners will be incorporated into the site.

One-Year Banner Advertisement: $100.00

If the advertiser is a CWWCA member, this fee also includes a free upgrade of your member directory listing. Banner ads should be 285 pixels wide x 96 pixels high, .jpg format and in landscape orientation.

MEMBER DIRECTORY UPGRADE

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 150 pixels high, by 225 pixels wide.
Greetings,

The CWWCA proudly congratulates CWWCA board member, Todd Hunter, for being elected as the 2017 NGWA president. He will be a huge asset to NGWA and a strong voice for the safety of the ground water and citizens of the United States.

The 2017 Annual Conference is rapidly approaching. The Program Committee has once again put together a program featuring knowledgeable, informed speakers, thousands of square feet of supplier exhibits and nine hours of continuing education. The Annual Conference is a great format to visit and network with others in the water well industry.

If you are an “experienced” water well professional or new to the industry, I invite you to attend and be a part of a successful 2017 Annual Conference.

Thanks to the CWWCA for allowing me to serve as Association President this year. I appreciate the help and support I have received from so many of you.

I wish all of you a Merry Christmas, a Happy Holiday Season and a Prosperous New Year!

Keith Branstetter
CWWCA President

Happy Holidays!
Preferred Pump & Equipment
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500 East 64th Avenue
Denver, CO 80229
Toll Free: (866) 478-6336
**CWWCA Annual Conference January 11-13, 2017**  
Crowne Plaza, DIA, Denver, CO

**PROGRAM**

---

### Wednesday, January 11

**PM**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00</td>
<td>Early Registration &amp; Early Exhibitor Set-Up</td>
</tr>
<tr>
<td>5:00</td>
<td>Technical Working Group</td>
</tr>
<tr>
<td>6:00</td>
<td><strong>CWWCA Supplier Sponsored Social in Exhibit Area</strong></td>
</tr>
</tbody>
</table>

### Thursday, January 12

**AM**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00</td>
<td>Exhibitor Set Up</td>
</tr>
<tr>
<td>7:00</td>
<td>Past President’s Breakfast</td>
</tr>
<tr>
<td>7:00</td>
<td>Registration and Continental Breakfast in Exhibit Area</td>
</tr>
<tr>
<td>7:30</td>
<td>CWWCA Board Members Only Working Meeting</td>
</tr>
<tr>
<td>8:00</td>
<td>“Leadership” Jeff Williams, NGWA 2016 President</td>
</tr>
<tr>
<td>9:00</td>
<td>Membership Meeting</td>
</tr>
<tr>
<td>10:00</td>
<td>Suppliers/Manufacturers Exhibits Open</td>
</tr>
<tr>
<td>12:00</td>
<td>Lunch &amp; Installation of Officers &amp; Awards in Exhibit Area</td>
</tr>
</tbody>
</table>

**PM**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:30</td>
<td><strong>McEllhiney Lecture:</strong> “Defining the Operational Age of a Well: Predicting Maintenance Issues in Advance of Failure”</td>
</tr>
<tr>
<td>2:00</td>
<td>Suppliers Meeting</td>
</tr>
<tr>
<td>2:20</td>
<td>COFFEE &amp; COOKIE BREAK IN EXHIBITOR AREA</td>
</tr>
<tr>
<td>3:00</td>
<td>“Interactive Communication Session for Manufacturers and Contractors”</td>
</tr>
<tr>
<td>4:00</td>
<td>Open Bar &amp; Buck Lively Scholarship “Silent Auction” in Exhibit Area</td>
</tr>
<tr>
<td>5:30</td>
<td>Dinner Banquet in Exhibit Area</td>
</tr>
<tr>
<td>6:45</td>
<td>Buck Lively Scholarship “Live Auction” in Exhibit Area</td>
</tr>
</tbody>
</table>

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### Friday, January 13

**AM**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00</td>
<td>Exhibitor Tear Down</td>
</tr>
<tr>
<td>7:00</td>
<td>Continental Breakfast</td>
</tr>
<tr>
<td>8:00</td>
<td>“Overview of Confined Spaces and Lock Out Tag Out”</td>
</tr>
<tr>
<td>8:30</td>
<td>Short Course: <strong>Test Preparation</strong>, Ray Newmyer</td>
</tr>
<tr>
<td>9:00</td>
<td>“Bore Hole Logging” Thom Hanna, Johnson Screens</td>
</tr>
<tr>
<td>11:00</td>
<td>Lunch</td>
</tr>
<tr>
<td>12:00</td>
<td>“Contamination Prevention with Back Flow Devices”</td>
</tr>
<tr>
<td>2:30</td>
<td><strong>CWWCA Board of Directors Meeting</strong> – Crown Plaza</td>
</tr>
</tbody>
</table>

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Note: * Indicates Approval for Continuing Education Credits
WESTERN HYDRO offers complete custom fabrication of Goulds, Franklin and Berkeley centrifugal, submersible and lineshaft turbine pumps at one of our 5 machining and assembly locations.
Call the Turbine team toll free at (866) 446-9898 or email your requirements to turbine@westernhydro.com.

Contact the stocking location nearest you!
- Wheat Ridge, CO  
  (303) 421-6358
- Colorado Springs, CO  
  (719) 572-5251
- Grand Junction, CO  
  (970) 523-6502

Toll Free - 800-972-5945

Western Hydro locations carry:
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- Fittings
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As a ‘Green’ alternative, we offer complete pumping systems for pools, agriculture, residential and commercial applications from Lorentz and Franklin. Solar systems can save thousands of dollars in electrical costs annually!
REGISTRATION FORM
2017 CWWCA ANNUAL CONFERENCE JANUARY 11-13
DENVER, CO

Please Type or Print
NAME BADGES

Company Name
Registrant I _____________________________
Registrant II _____________________________
Registrant III _____________________________
Registrant IV _____________________________

PLEASE LIST ALL NAMES CLEARLY SO THAT THEY HAVE A NAME BADGE

Mailing Address_______________________________
City, State, Zip _______________________________
Phone_________________Fax_________________E-mail________________________

CONFERENCE ATTENDEES ONLY

PLEASE NOTE THAT Full Registration Fee INCLUDES
1 Admission to all Courses
2 Wednesday Night Supplier Sponsored Social with Cocktails and Great Food
3 Thursday Exhibits/Continental Breakfast, Lunch and Dinner Banquet
4 Friday Breakfast and Lunch

By December 23 After December 23 Number Amount
*CWWCA Member Fee $192 $199 ______ $______
*Employee Member/Spouse $155 $162 ______ $______
*MUST HAVE INDIVIDUAL 2017 CWWCA MEMBER DUES PAID
Non-Member Fee $253 $263 ______ $______

CONFERENCE REGISTRATION TOTAL ______ $______

*GUESTS/EXTRA TICKETS

THESE ARE ADDITIONAL EXTRA TICKETS FOR GUESTS/LUNCH/DINNER

NAME BADGE FOR GUEST

For Friday Lunch Only $29.00 ______ $______
For Friday Dinner Only $33.00 ______ $______
Children under 13 Lunch $12.00 ______ $______
Children under 13 Dinner $14.00 ______ $______

TOTAL PAID ______ $______

Method of Payment: Check Number________
Credit Card: Visa ( ) Master Card ( ) Discover ( ) AMEX ( )
Credit Card #___________________________ Expiration Date___________________________
Signature________________________________

Please return your remittance and completed registration form to: CWWCA, 1540 S. Holly St. #5, Denver, CO 80222 Phone: 303.759.2294 Fax: 303.757.0158

Cancellation Policy: Full registration fees will be refunded prior to Dec. 20, 2016. A $50 fee will be charged for cancellations submitted between Dec. 21, 2016 & Dec. 31, 2016. No fees will be refunded after Jan. 1, 2017. All cancellation requests must be submitted in writing to the CWWCA office.

If you have a disability and may require special accommodations please notify us in writing at least (2) weeks prior to the conference.
New VFD Enviro-Check* Valve with a 5 - year warranty

Now Available 1” - 4” Patented VFD Check Valves
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New patented submersible pump check valve for use on variable flow demand (VFD) systems and applications. Standard check valves will “chatter” and be noisy when the system goes to low flow, causing eventual failure. The unique Model 80E VFD and 100E VFD valves are designed to minimize flow losses and hydraulic shocks in the pumping system.

Flomatic’s valves are used by more pump manufacturers than any other valve on the market. This new, exclusive poppet system ensures that the valve smoothly and automatically adjusts to flow changes and is noiseless at even very low flows. Call for complete information at 800-833-2040 or visit us on the web at www.flomatic.com

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15 Pruyn’s Island Drive
Glens Falls, NY 12801
Phone: (800) 833-2040 • (518) 761-9797
Fax: (518) 761-9798 • www.flomatic.com
Email: flomatic@flomatic.com

Represented by:
Maples Sales and Service, Inc.
Phone: 303-371-1800
Fax: 303-371-1808
www.maplesales.com
This short course was created in response to multiple requests from CWWCA contractor members for an education program to instruct their helpers, new employees and customers on the basics of water well design and construction. Therefore, the Board of Directors of the CWWCA has put together a short course.

We would like extend the offer for short course attendees to attend the rest of the conference classes for free. Meals are not included and will need to be purchased in addition to the short course fee.

**Please Type or Print**

| Company Name | Registrant I | Registrant II | Registrant III | Registrant IV |

**NAME BADGES**

**PLEASE LIST ALL NAMES CLEARLY SO THAT THEY HAVE A NAME BADGE**

Mailing Address ________________________________________________

City, State, Zip ________________________________________________

Phone __________________ Fax __________________ E-mail ____________

**CWWCA Apprentice Member Fee** $65.00 $_________

**Non-Apprentice Member Fee** $95.00 $_________

**THESE ARE “EXTRA” TICKETS FOR SHORT COURSE ATTENDEES ONLY MEALS ARE “NOT” INCLUDED IN SHORT COURSE FEE**

|             | Thursday Breakfast Only | $20.00 | $_________
|-------------|--------------------------|--------|-----------
|             | Thursday Lunch Only      | $29.00 | $_________
|             | Thursday Dinner Only     | $33.00 | $_________
|             | Friday Breakfast Only    | $20.00 | $_________
|             | Friday Lunch Only        | $29.00 | $_________

**TOTAL PAID** ____________________________________________ $_________

**Method of Payment:** Check Number __________

Credit Card: Visa ______ Master Card ______ Discover ______ AMEX ______

Credit Card # ______________________________ Expiration Date __________

Signature ___________________________________________

Please return your remittance and completed registration form to: CWWCA, 1540 S. Holly St. #5, Denver, CO 80222 Phone #303.759.2294 Fax:303.757.0158

Cancellation Policy: Full registration fees will be refunded prior to Dec. 20, 2016. A $25 fee will be charged for cancellations submitted between Dec. 21, 2016 & Dec. 31, 2016. No fees will be refunded after Jan. 1, 2017. All cancellation requests must be submitted in writing to the CWWCA office.

**SHORT COURSE REGISTRATION ONLY**
Providing solutions for
Professional Water Well Contractors in Colorado

- PUMPS
- MOTORS
- CONTROLS
- WELL DRILLING SUPPLIES
- WELL CASING
- TANKS
- FILTRATION
- PIPE, VALVES & FITTINGS
- ELECTRICAL WIRE
- ELECTRICAL ACCESSORIES
- MISC ACCESSORIES

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Lakewood | Longmont | Westminster

303-394-6040 / 800-289-2777  www.cpsdistributors.com
December 1, 2016

BOE Administrative Rulemaking

The Board of Examiners will be opening the Rules and Regulations for Administration of Licensing, Financial Responsibility, Continuing Education and Remedial Action 2 CCR 402-14 (BOE Administrative Rules) in early 2017. Sign up for our email listserv to receive notices on the 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 have already signed up for the Well Construction Rulemaking Listserv then you are already signed up on this listserv. If you do not want to receive notices for the Licensing Rules, you may unsubscribe from the BOE Administrative Rulemaking Listserv.

AquaMap and Map Viewer

AquaMap will be retired in early January 2017. Please begin using the DWR Map Viewers; http://water.state.co.us/DataMaps/GISandMaps/MapViewer/Pages/FAQ.aspx

If you have any questions please contact, Doug Stephenson - Douglas.Stephenson@state.co.us 303-866-3581 x8270
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- Water Treatment
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4370 Glencoe • Denver, CO 80216 • Phone: 303-320-4631

TOLL FREE: 800-336-4631

www.2mco.com
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. 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 an 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. 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
Safety First

By: Gene Wagner EMT-P and Licensed Pump Installation Contractor

Head Injuries

With all of the emphasis put on head injuries in recent years by the NFL, NCAA and high school sports, I think it is important to discuss head injuries in industry. What they have done is brought to the public attention the short and long term effects of head injuries. While football is a violent sport that involves a high risk of head injuries, head injuries can occur in everyday life and should not be overlooked.

Head injuries can range from mild to severe. The more severe the injury is, the more apt we are to seek treatment for it. The problem lies with the injuries we perceive to be minor and do not seek treatment for. The first indication we have of a head injury is in the mechanism of injury. This can be anything from bumping our head to having a heavy object fall on our head. Unfortunately in our line of work we work with many things that are very heavy and carry a potential for serious injury.

Signs to look for with a head injury range from the obvious to very hard to detect. As I stated before, the mechanism

(Continued on page 16)
TWG Meeting Recap - DRAFT
10 AM, October 7, 2016
Chase Bank Building
333 West Hampden Ave., Englewood, CO 80110

Next TWG Meeting:
Thursday, January 12, 2017
Prior to CWWCA Annual Conference
Crowne Plaza, DIA, Denver, CO
15500 East 40th Avenue, Denver, CO 80239

Attendees:
Fred Rothauge, Joel Canfield, Joe Meigs, Fred Baros, Andy Horn, Kevin Donegan, Doug Stephenson, Keith Branstetter, Gene Wagner, Brad Himes, Bryan Beckner, Tim Harder, Keith Branstetter

Moderator for January 2017 Meeting
Joel Canfield

DWR Report
Well permit applications and approvals are up about 20-percent from 2015. Below is a partial comparison of 2015 and 2016 permitting:

<table>
<thead>
<tr>
<th></th>
<th>1/1/15 to 10/8/15</th>
<th>1/1/16 to 9/30/16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Applications Received</td>
<td>3,986</td>
<td>4,731</td>
</tr>
<tr>
<td>Total All Permits Issued</td>
<td>3,575</td>
<td>4,313</td>
</tr>
<tr>
<td>Total New Exempt Permits Issued</td>
<td>2,422</td>
<td>3,161</td>
</tr>
</tbody>
</table>

CDWR Well Permit Activity
From: 1/1/2016 to 9/30/2016

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Applications Received</td>
<td>4,731</td>
</tr>
<tr>
<td>Total all Permits Issued</td>
<td>4,313</td>
</tr>
<tr>
<td>Total New Exempt Permits Issued</td>
<td>3,161</td>
</tr>
<tr>
<td>Total New Non-Exempt Permits Issued</td>
<td>747</td>
</tr>
<tr>
<td>Replacement Permits Exempt</td>
<td>321</td>
</tr>
<tr>
<td>Replacement Permits Non-Exempt</td>
<td>84</td>
</tr>
<tr>
<td>Geothermal Applications</td>
<td>30</td>
</tr>
<tr>
<td>Geothermal Permits Issued</td>
<td>29</td>
</tr>
<tr>
<td>Monitoring Hole Notice</td>
<td>773</td>
</tr>
<tr>
<td>Total Wells Plugged and Sealed</td>
<td>629</td>
</tr>
</tbody>
</table>

Hard copies of the 2016 Water Well Construction Rules are available for $10 from the DWR; $13 with shipping.

BOE Rulemaking process will begin in 2017 for the Rules and Regulations for Administration of Licensing, Financial Responsibility, Continuing Education and Remedial Action. One item that will be

(Continued on page 17)
of injury is our first clue. If someone has been hit in the head by an object, fallen and hit their head or even bumped their head while moving around, they should be assessed for injury. As with any injury we look first for anything that could be considered a life threat. These could include excessive bleeding, loss of consciousness with breathing problems and any penetrating trauma. Other less obvious signs that would not be considered an immediate life threat include headache, blurred vision, unequal pupils, slurred speech, confusion, loss of balance, nausea, fatigue, memory loss and depression.

Treatment of a head injury depends on the extent of the injury. With the more severe injuries, they should be taken to a hospital by ambulance or private vehicle if one is not readily available. Life threats shall be treated by stopping the bleeding with pressure dressings. Never attempt to put anything back in the head and never remove an impaled object. If needed be prepared to assist the person with their breathing. Rapid treatment at a hospital will provide for the best outcome. If the injury is less severe you should still seek medical treatment. One of the biggest threats with head injuries is what we don’t see. Left untreated, head injuries can lead to severe consequences or even death several days down the road due to bleeding in the brain. The only way to diagnose this is with a CT scan.

The biggest thing to take out of this is to never ignore a head injury. What may seem minor may lead to serious problems in the future. I know of several cases where people thought they had a minor incident and ended up dying several days later. Let’s try not to be another statistic. Make sure we always wear our hard hats, keep our equipment in good working condition and when doing our site inspections look for any potential threats. Remember, we want to see you at the end of the day.

Thanks for listening.
addressed is an increase of required bond amount. The process for notification and comments will be similar to the Water Well Construction Rules.

The DWR has made major improvements to their online mapping tools, including well permit locations, well water levels, geology and other information. Look at the lower left-hand corner of the DWR Homepage: “NEW! DWR Map Viewers” and try the “DWR Well Permit Research Viewer.”

**Variance Templates**
The CWWCA developed an initial variance request template for Infiltration Gallery Wells, Minimum Distance from a Source of Contamination and Minimum Distance to a Well from a Sewer Line, Septic Tank or Other Vessel Containing Contaminants. Comments were received from DWR Staff. The intent of the variance request template is to improve communication between contractors, DWR Staff and the BOE. An additional template will be prepared for Type III minimum grout interval. BOE staff can approve no less than a 10 ft minimum Type III grout interval; the BOE can approve less. The Water Well Construction Rules require grout interval starting at 19 ft depth, and a variance can be approved for a lesser depth, depending on site-specific conditions.

Once the variance templates are complete, they will be hosted on the CWWCA website and introduced at the January 2017 CWWCA Annual Conference.

**Well Inspection Program**
There is an update in the Fall 2016 Drillstem regarding the well inspection program. CWWCA’s lobbyist has been busy over the summer with the legislature. The focus this summer was getting 6 out of 10 legislators from the Water Resources Review Committee because bills from that committee do not count against the 2-bill sponsorship per legislator. Unfortunately, a majority could not be achieved.

There are currently two field inspectors for the entire State. Currently 10% of wells are inspected, but this is weighted toward Division 3 (San Luis Valley) where 100% of wells are inspected. Representative Arndt has been very supportive of funding for additional well inspectors. Bob Randall is the new Deputy Director of the Division of Natural Resources and may be more supportive of funding additional well inspectors.

**Drilling Fluid Additives**
The DWR is seeking input for well cleaning, rehab and grouting additives to be approved. The BOE will be reviewing additive approval during the November board meeting. Suppliers, contractors and manufactures should provide data sheets for additives they would like approved to the DWR. Approved additives will be listed on BOE Rules website.

**Future Topics**
DWR Update
Variance Templates
Discuss BOE Administrative Rules
Well Inspection Program

Respectfully submitted by Daniel O. Niemela
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S4,000 – S30,000 SEMCO Pump Hoists

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S110H Hydrorench 1-10"

1-2", 2 1/2-4 J&K Kwik Klamp
Driller and/or Pump Installer
Apprenticeship Program

This apprentice program supported by the 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.

(a) A person who wishes to undertake the CWWCA approved apprentice program under the supervision of a licensed well driller and/or a licensed pump installer who has been licensed for a minimum of two years, must submit a registration form (Form Attached) to the CWWCA and provide proof that the licensed well driller and/or pump installer has agreed to accept the responsibility of supervising the training. A driller or pump installer may not supervise more than three apprentices at any one time. Persons with both a well driller and pump installers license may register a maximum of six apprentices (three of each type) at any one time.

(b) A registered driller or pump installer apprentice shall represent his supervising driller or pump installer during operations at the well site.

(c) The CWWCA Board of Directors shall review driller and/or pump installer registration forms.

(d) A registered driller/pump installer apprentice may not perform, or offer to perform; any services associated with drilling or pump installing except under the supervision of a licensed driller/ pump installer and according to the supervising driller/pump installer’s express directions. A driller/pump installer apprentice’s registration may be revoked for engaging in prohibited activities.

(e) Registration forms shall include:
   1. The name, business address, and permanent mailing address of the apprentice in training
   2. The name, business address, and license number of the licensed driller and/or pump installer who will supervise the training
   3. A detailed description of the training program, including the types of wells to be drilled and/or the classifications of pumps to be installed, equipment used, safety training and procedures, and experience, knowledge, and qualification benchmarks while under apprenticeship.
   4. The effective commencement and termination date of the training program
   5. A statement by the licensed driller and/or pump installer accepting financial responsibility (under the licensed contractors bond) for the activities of the apprentice associated with the training program or undertaken on behalf of the licensed driller or pump installer, and
   6. The signatures of the apprentice and the licensed driller and/or pump installer and the sworn statement of both that the information provided is true and correct.

(Continued on page 20)
(Continued from page 19)

(f) If the application conforms to the rules and the apprenticeship program meets the CWWCA requirements, the CWWCA will notify the apprentice and the supervising driller and/or pump installer that the applicant has been accepted as a registered driller and/or pump installer apprentice and that the registration form shall remain in the CWWCA’s files for the stated duration of the apprentice program.

(g) If the application and apprentice program do not conform to the rules or is not approved, the CWWCA shall notify the apprentice and the apprentice’s supervising driller and/or pump installer of the disapproval.

Responsibilities of the Apprentice and Supervising Driller and/or Pump Installer

(a) A registered driller/pump installer apprentice shall: represent his supervising driller/pump installer during operations at the well site; driller/pump installer apprentice shall co-sign the state reports (in the remarks area under Section 5. GEOLOGIC LOG of the Well Construction and Test Report for well drillers and under Section 9 on the Pump Installation and Test Report for pump installers. If a replacement pump is installed a Pump Installation and Test Report should be filled out and sent to the CWWCA, even though it is not required by the State.) with the supervising driller/pump installer until the required number of installations is achieved; and perform services associated with drilling, deepening, or altering a well and/or installing pumps under the supervision of the supervising driller/pump installer.

(b) A registered driller/pump installer apprentice may not perform, or offer to perform, any services associated with drilling, deepening, installing a pump or altering a well except under the direct supervision of a licensed driller/pump installer and/or according to the supervisor’s express directions. A driller/pump installers apprentice’s registration may be revoked for engaging in prohibited activities.

(Continued on page 21)
(c) On completion of a training program of at least two years and the completion of at least 20 wells (new and/or redrills) and/or the installation of 20 pumps (new and/or replacement), an apprentice may apply to obtain a well driller’s/pump installer’s license or to renew the status as an apprentice. The supervising driller, pump installer or apprentice may terminate the training program by written notice to the CWWCA. A reason for termination is not required. Upon receipt of the notice, the CWWCA shall terminate the apprentice’s status as a registered apprentice.

(d) Upon renewal of an apprentice registration, the supervising driller and/or pump installer shall provide the CWWCA a written progress report on the aforementioned training segments pertaining to the apprentice’s stated training program.

(e) The licensed driller and/or pump installer is responsible for compliance with the Rules and Regulations for Water Well Construction, Pump Installation, Cistern Installation, and Monitoring and Observation Hole/Well Construction (Construction Rules) 2 CCR 402-2.

(f) If the supervising driller or pump installer is unavailable, he may be represented by another licensed driller or pump installer who:

1. is employed by the apprentice’s employer; and
2. is either at the well site or can be reached by phone or radio.

Continuing education as it applies to the apprentice program. By the end of each year of apprenticeship the apprentice 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.

A copy of this form will then be sent to the CWWCA and be added to the apprentice’s file.
INSURANCE

- Drillers: Water, Enviro, Cathodic, Geothermal, etc.
- Pump Installers
- Environmental Contractors
- Manufacturers & Distributors
- Engineers, Consultants, Geologists
- Oilfield Service Contractors

VolkBell Property & Casualty Insurance is ready to work for YOU!
The Most Valuable Tool:

Your most valuable tool probably has 3 important traits: Reliability, predictability, dependability.

Valuable tools function as expected, when expected. A valuable tool not only helps you make money, but it helps you keep your promises. Promises to your customers, to your employees, promises to your family. Valuable tools are useful tools and how they are cared for is a direct reflection of the fella who operates them.

Good, valuable tools well maintained and cared for are something to be proud of indeed!

Now let’s imagine you’re looking to buy a rig. You’re probably not looking to buy just any rig, you’re looking to buy the “Right Rig”. You know what I’m talking about. The right year, the right size, the right systems, compressors, upgrades, etc. Maybe more important than what it is or how it’s configured, are the right details. You know like the nuanced condition of the lubrication, the wear points, the overall cleanliness. The details that matter and say boldly, “I’ve been handled right, I have what it takes, and I’ll be dependable for you too.” And when you find the “Right Rig” and get it outfitted to your liking, who exactly will you trust to run it for you? Just anybody with a driller’s license? Someone who has seen one on a reality TV episode? Who exactly will mechanic on your rig doing repairs and upgrades without fail? Just anyone handy who can turn a wrench? Maybe someone who....

Of course, I’m kidding! But why do so many business owners treat insurance and work comp any differently? Maybe because insurance tools cost money, not make money... right? Maybe there are a lot of reasons, but here is what I do know:

None of us would feel good about operating any sort of valuable machinery let alone a drill rig without the right set-up, routine maintenance and plenty of know-how. Disabling or not keeping necessary safety guards in place, even the small ones, is inviting serious consequences. Yet, the annual cycle of insurance policies somehow entices business owners and even competing agents to remove or omit many protections, details, and safety features within insurance policies.... all to save premium dollars. Which feels great and seems fine—until it isn’t. In this I’m not kidding—when a Bad Day happens to you, your insurance policy is either going to be worth infinitely more than what you paid for it, or, it won’t be worth the paper it’s printed on. Exactly how insurance tools are set up, if the right details are in place, and who is operating it for you will matter. The choice is yours to either step over a dollar to pick up a dime, and maybe reverse engineer a disaster for yourself in doing so—*OR*—seize the moment and make the resolve in this New Year to treat your insurance and work comp as the valuable tools they are. Tools to take care of your equipment, your people, your profit, your time.

Need help? Not sure where to start? Contact me and we’ll get-er-done together. All the best!

Kyle Rehme
VolkBell Property & Casualty
Strategic Insurance Consultant
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Charles D. Dyke, 74, of North Platte, passed away October 26, 2016 at Linden Court. He was born on December 31, 1941 to Charles and Doris (Bone) Dyke in Callaway, Nebraska.

Charles enjoyed playing the bass fiddle in a band for a number of years. He was a very honorable and dedicated family man and worked extremely hard all his life. His life revolved around his family and he was the world to them.

“Bud” Dyke’s contribution to the water well industry working at places such as, Burgess Well Drilling, Quality Irrigation, and Grosch Drilling out of Imperial, will be greatly missed. He was an unlimited source of experience and knowledge for all who worked with him.

He was preceded in death by his father, Charles; his mother, Doris Hagadorn; stepfather, Paul Hagadorn; his wife, Mary, two brothers, Dennis and Jim; great grandchildren, Alexandria and Xane.

He is survived by daughters, Rose (Bill) Weston and Suzanne (David) Winfield; grandkids, Adam McCracken and fiancé, Whitney Weinman; April McCracken and fiancé, Robbie Litzenberger; Jennifer (Aaron) Beed; Stephanie (Keiran) Muir; Natasha Winfield, David Winfield Jr., Jennifer (Chase) Whitson, great grandchildren Anna, Josiah, Xander, Xavier, Gabby, Keira, Khloe, Ezra, Makenna and Aiden; numerous nieces, nephews and extended family.

Online condolences may be shared at carpentermemorial.com. Services were held at 2:00 p.m. on Tuesday, November 1, at Harvest Christian Fellowship Church, Pastors Robert Litzenberger and Jeremy Rinke officiating. Carpenter Memorial Chapel is in care of arrangements.
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

_____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

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Please return your remittance and completed Membership Form to

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Looking Forward to Seeing You at the

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JANUARY 11-13, 2017