CWWCA Annual Conference January 8-9, 2016
Crowne Plaza, DIA, Denver, CO

THURSDAY, JANUARY 7

<table>
<thead>
<tr>
<th>PM</th>
<th>3:00</th>
<th>6:00</th>
<th>Early Registration &amp; Early Exhibitor Set-Up</th>
</tr>
</thead>
<tbody>
<tr>
<td>5:00</td>
<td>6:00</td>
<td></td>
<td>Technical Working Group Meeting</td>
</tr>
<tr>
<td>6:00</td>
<td>8:00</td>
<td></td>
<td>CWWCA Supplier Sponsored Social in Exhibit Area</td>
</tr>
</tbody>
</table>

FRIDAY, JANUARY 8

<table>
<thead>
<tr>
<th>AM</th>
<th>6:30</th>
<th>8:00</th>
<th>Registration</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00</td>
<td>8:00</td>
<td></td>
<td>Past Presidents Breakfast</td>
</tr>
<tr>
<td>7:00</td>
<td>10:00</td>
<td></td>
<td>Exhibitor Set-Up</td>
</tr>
<tr>
<td>7:30</td>
<td>7:45</td>
<td></td>
<td>CWWCA Board Members Only Working Meeting</td>
</tr>
<tr>
<td>8:00</td>
<td>9:30</td>
<td></td>
<td>McEllhiney Lecture “Groundwater Contaminants &amp; Treatment Options” Peter Cartwright, P.E *1.5 hrs</td>
</tr>
<tr>
<td>9:30</td>
<td>10:30</td>
<td></td>
<td>Membership Meeting</td>
</tr>
<tr>
<td>10:00</td>
<td></td>
<td></td>
<td>Suppliers/Manufacturers Exhibits Open</td>
</tr>
<tr>
<td>10:30</td>
<td>12:00</td>
<td></td>
<td>Exhibits</td>
</tr>
<tr>
<td>PM</td>
<td>12:00</td>
<td>1:30</td>
<td>Lunch &amp; Installation of Officers &amp; Awards in Exhibit Area</td>
</tr>
<tr>
<td>1:30</td>
<td>4:30</td>
<td></td>
<td>“Short Course” – Industry Basics - Full Description on Registration Form</td>
</tr>
<tr>
<td>1:30</td>
<td>2:20</td>
<td></td>
<td>“Professional Development” David Wilson, Baroid IDP *1 hr</td>
</tr>
<tr>
<td>2:20</td>
<td>3:00</td>
<td></td>
<td>COFFEE &amp; COOKIE BREAK IN EXHIBITOR AREA</td>
</tr>
<tr>
<td>3:00</td>
<td>3:15</td>
<td></td>
<td>Suppliers Meeting</td>
</tr>
<tr>
<td>3:00</td>
<td>3:50</td>
<td></td>
<td>“Water Well Construction Rules”</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Kevin Donegan, DWR *1 hr</td>
</tr>
<tr>
<td>4:00</td>
<td>5:30</td>
<td></td>
<td>Open Bar &amp; Buck Lively Scholarship</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>“Silent Auction” in Exhibit Area</td>
</tr>
<tr>
<td>5:30</td>
<td>6:30</td>
<td></td>
<td>Dinner Banquet in Exhibit Area</td>
</tr>
<tr>
<td>6:45</td>
<td>7:45</td>
<td></td>
<td>BUCK LIVELY SCHOLARSHIP “LIVE AUCTION” IN EXHIBIT AREA...</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>FEATURING JIM BERZ, ACCLAIMED AUCTIONEER OF WOW EVENTS, DENVER, CO!</td>
</tr>
</tbody>
</table>

Note: * Indicates Approval for Continuing Education Credits

Inside this issue:

- Advertising Information
- Events Calendar
- President’s Report
- Buck Lively Scholarship Auction
- 2016 CWWCA Annual Conference Hotel Information
- Driller and/or Pump Installer Apprenticeship Program
- Buck Lively Scholarship Program
- 2016 CWWCA Annual Conference Registration Form
- 2016 CWWCA Annual Conference Short Course Registration Form
- TWG Meeting Recap
- CWWCA Membership Form
- Board/Committee Directory
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>
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<td>Savings</td>
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<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; or 3.5&quot;x10&quot;</td>
<td>$150</td>
<td>$285</td>
<td>$405</td>
<td>$510</td>
</tr>
<tr>
<td>Quarter Page 3.5&quot;x5&quot; or 7&quot;x2.5&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>

Send copies and payment to:
CWWCA
1540 S. Holly St. #6
Denver, CO 80222
e-mail: execdir@cwwca.org
303.759.2294

WEBSITE ADVERTISING

BANNER ADVERTISING
Banner advertisements appear at the bottom of 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: $300
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.

CWWCA CONTACTS

Executive Director
Karie Walker
CWWCA 1540 S. Holly St. #6
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

Jan 5, 2016 BOE Meeting
Jan 8-9, 2016 CWWCA Annual Conference CROWNE PLAZA, DIA Denver, CO
Jan 9, 2016 Board of Directors Meeting
Apr 5, 2016 BOE Meeting
July 15-16, 2016 Mid-Year Conference Beaver Run Resort, Breckenridge, CO
Hello fellow Contractors,

As 2015 winds down and we prepare for the Holidays, we are all mindful of individual accomplishments. At the same time preparation for future goals has us thinking and planning, to ensure the best that we can, that our plans and objectives flow as smoothly as possible.

The CWWCA organization similarly has reason for reflection on this past year’s profile of events and accomplishments. It was projected that 2015 would be a year of change and indeed many milestones were seen that bring cause of celebration for individual members and CWWCA administration. Major milestones achieved this year include:
1) The largest most well attended annual conference with the highest revenue and largest vendor contribution ever.
2) Smooth and successful transition of the Executive Director position enabling flawless execution and improvements of administrative operations.
3) Governor’s appointment of a new CWWCA Board member to a seat on the Division of Water Resource’s Board of Engineers.
4) A banner 2015 Buck Lively Scholarship Auction, yielding a record number of scholarships awarded to deserving individuals, to promote their higher education objectives.
5) Completion of a successful mid-year conference yielding a profit in net revenue over the previous year’s accomplishment.
6) High level participation and contribution to the DWR’s ongoing rule-making process.
7) Successful facilities contract and annual program revisions, reducing the 2016 annual conference duration to accommodate all of the organization’s business needs and continuing education credits in two days instead of three.

On behalf of the CWWCA Board of Directors I would like to extend gratitude to each CWWCA member for your continued support of our organization, through your membership, participation in leadership and committees, and your constructive comments. A special word of thanks to our Executive Director and the Program Committee for all their hard work in organizing the upcoming 2016 annual conference. I personally look forward to seeing each of you at the conference on January 8th and 9th.

Fred Baros
CWWCA President
In the Great State of Colorado, experienced drilling and pump contractors know that Western Hydro is the place to go for the equipment and supplies you want at competitive prices!

Franklin Electric

NEW!
WE ARE PROUD TO NOW OFFER A FULL LINE OF FRANKLIN ELECTRIC PUMPS AND MOTORS TO OUR CUSTOMERS!

Please contact your local Western Hydro Corporation Salesperson for more details!

WE ALSO STOCK A COMPREHENSIVE LINE OF...
- Xylem Goulds/Red Jacket Pumps
- Pentair STA-RITE/Berkeley/Myers Pumps
- Casing - PVC/Steel  ● Screen - PVC/Steel Pipe  ● Tanks
- Drilling Rig Pumps and Parts  ● Drilling Fluids - Mud/Grout
- Water Treatment Systems & Supplies  ● Pump Derricks & Parts
- Drilling Supplies - Bits/Subs/Hammers
- Lead Free Water Service Valves  ● And Much More!

Western Hydro Corporation now has five complete build centers, strategically located for your build to order subsurface and lineshaft turbines. Machine work, labor, and other services available by quotation.

Labor:  ● Bowl tear down and rebuild  ● Remove seized nipples
- Special TPL’s  ● Impeller back filing  ● Tube and shaft clean up
- Hardened sleeves removed/installed
- Line shaft/head shaft flame straightening

Machine Work:  ● Wear Rings – Cast iron, brass, stainless steel  ● Reface Bowls
- Impellers Trimmed  ● Motor or drive clutch bored, bushed, re-key
- Machine bowls for wear rings or oversize bearing
- Keyways cut  ● Machine for dual seals
- Special/length shafts, oil tubes, column pipe, column nipples
- Special Adaptations – Threading, tee-brgs, stretch bearings

Hydro

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WESTERN HYDRO CORPORATION

► Colorado (Colorado Springs)
- (877) 594-7259

► Colorado (Wheat Ridge)
- (800) 332-8293

► Colorado (Grand Junction)
- (866) 297-1400
**Buck Lively Scholarship Auction**

**The Live Auction Brings Professional Benefit Auctioneer Jim Berz To Our Event!**

The Live activities conducted by our auctioneer will provide opportunities for everyone to participate in becoming an important part of reaching our fundraising goals. These goals include providing scholarships to deserving young students as well as individuals seeking to further their education as it relates to our industry. We look forward to presenting our attendees with a memorable, thrilling, and entertaining experience to remember and enjoy. This year’s event will also feature our silent auction full of unique and interesting items including sports, music, celebrity, and entertainment memorabilia.

*************

**CWWCA Annual Conference Room Reservation Information**

January 8-9, 2016  
Hotel Information and Reservations  
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 QWW

Rates Apply 1/4/16-1/11/16 $112 Standard Room (Tax not Included)  
Check in time: 4:00pm Check out time: 12:00 Noon

*****This Room Rate will be held until December 30, 2015*****  
After that time, rooms will be reserved on a space available basis.
Preferred Pump & Equipment
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500 East 64th Avenue
Denver, CO 80229
Toll Free: (866) 478-6336
When it comes to drilling and water wells, most insurance people just don’t get it...We Do!

We have the water well insurance programs to fit your individual needs. We offer customized insurance coverage to protect the individual needs of each water well contractor we serve.

Our client base includes contractors working in the following fields:

- Environmental Wells
- Geothermal Wells
- CP Holes
- Dewatering
- Geotechnical
- Core Sampling
- Rat/Mouse Holes
- Disposal Wells
- Well Logging
- Surface Casing in the Oil & Gas Fields

Your policy will be customized to your specific needs. Our special coverage includes:

- Tools & Equipment lost Down-the-Hole
- Care, Custody, and Control of the Well
- Installation and Transit Coverage
- Business Income
- Special rates for CWWCA Members

We deliver opportunity for lower premiums and superior coverage. Call us today to talk about your business protection needs!

- Steve Smith, Agency Owner – 970-223-1804 ext. 207, steve@frig.net
- Kyle Rehme, Production Specialist – 970-223-1804 ext. 220, krehme@frig.net
- Trent Smith, Producer Assistant – 970-223-1804 ext. 226, trent@frig.net

VolkBell Property & Casualty Insurance is proud of our long history of servicing the commercial insurance needs of businesses large and small in Colorado. We work hard to provide access to virtually all insurance and administration markets. We will consult with you to help you understand your needs before recommending the best combination of coverage, service, and value for your unique situation.
Serving you is our BUSINESS

- Water Well Supplies
- Water Treatment
- Pipeline/Misc.
- Stock Waters
- Custom Build Programs
- Factory Fly In Tours
- Incentive Trips

- Phones forwarded “after” hours
- Calls Always Answered—24/7/365
- Free Delivery
- Hot Shot Delivery Service

www.2mco.com

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

TOLL FREE: 800-336-4631
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 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.

(Continued on page 10)
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.

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
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 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. 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 the CWWCA office or to the Scholarship Committee before March 31st. Incomplete applications will disqualify an applicant.

(application available to download at CWWCA.org on the Scholarships page under the Education tab)

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. 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 6
Denver, Colorado 80222
Phone: 303-759-2294
Fax: 303-757-0158
email: execdir@cwwca.org
COLORADO PUMP & SUPPLY
A Colorado founded company since 1890

We appreciate your support here at CPS, we know the big guys “national companies” have taken over our market place and it makes it harder than ever for a local Colorado company to compete. We would like the opportunity to show you how CPS can work with your company to help you with the challenges we all face in business today.

Give us a call today!
1-800-289-2777 (Denver)
1-303-442-7975 (Boulder)
1-970-484-9300 (Fort Collins)
1-719-574-2400 (Colo. Springs)

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**Pumps:** Franklin, Berkeley, Flint & Walling.
**Tanks:** Amtrol, Perma Tank, Pro Source fiber wound.
**Accessories:** Merrill, Maass Midwest, Campbell / Baker, Flomatic, Baroid, JM Eagle, Service Wire.
REGISTRATION FORM
2016 CWWCA ANNUAL CONFERENCE
DENVER, CO

Please Type or Print

NAME BADGES
REGISTRANT I
REGISTRANT II
REGISTRANT III
REGISTRANT IV

Please list all names clearly so that they have a name badge

NAME BADGES
REGISTRANT II
REGISTRANT III
REGISTRANT IV

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) Thursday Night Supplier Sponsored Social with Cocktails and Food, January 7
3) Friday Exhibits, Lunch, Dinner Banquet and 2 Drink Tickets, January 8
4) Saturday Breakfast and Lunch, January 9

By December 20 After December 20 Number Amount
*CWWCA Member Fee $192 $199 ______ ___
*Employee Member/Spouse $155 $162 ______ ___
*MUST HAVE INDIVIDUAL 2015 CWWCA MEMBER DUES PAID
Non-Member Fee $253 $263 ______ ___
Conference Registration Total ______ ___

*GUESTS/EXTRA TICKET
These are additional extra tickets for guests meals

NAME BADGE FOR GUEST
For Friday Lunch Only $26.00 ______ ___
For Friday Dinner Only $31.00 ______ ___
For Saturday Breakfast Only $20.00 ______ ___
For Saturday Lunch Only $26.00 ______ ___
Children under 13 Lunch $12.00 ______ ___
Children under 13 Dinner $14.00 ______ ___
Extra Drink Tickets @ $6.00 each $ 6.00 ______ ___
GRAND TOTAL $______ ___

Method of Payment
Check #________________ Amount_______________
Credit Card : VISA( ) MASTER CARD( ) DISCOVER( )
Credit Card #_________________ Expiration Date________
Name on Credit Card__________________________________________________________

Signature_______________________________________________________________

Please return your remittance and completed registration form to:
CWWCA, 1540 S. Holly St. #6, Denver, CO 80222
Phone: 303.759.2294  Fax: 303.757.0158

Cancellation Policy: Full registration fees will be refunded prior to Dec. 24, 2015. A $50 fee will be charged for cancellations submitted between Dec. 24, 2015 & Dec. 31, 2015. No fees will be refunded after Jan. 1, 2016. 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.
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 1/2-4 J&K Kwik Klamp
SHORT COURSE REGISTRATION ONLY

The Basics of the Water Well Industry
FRIDAY, JANUARY 8, 2016
1:30pm – 4:30pm

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.

Introduction to Pumps – Jeff Appel

Introduction to Preparation for NGWA Testing – Speaker – Todd Hunter

Introduction to Well Inspection - What Water Well Inspectors are Looking For
Speaker – Brian Lake

Please Type or Print

NAME BADGES
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______________________

CWWCA Apprentice Member Fee - $65 $______
Non-Apprentice Member - Fee - $95 $______

THESE ARE “EXTRA” TICKETS FOR SHORT COURSE ATTENDEES ONLY

MEALS ARE “NOT” INCLUDED IN SHORT COURSE FEE

For Friday Lunch Only $ 26.00    _____ $______
For Friday Dinner Only $ 31.00    _____ $______
For Saturday Breakfast Only $ 20.00    _____ $______
For Saturday Lunch Only $ 26.00    _____ $______
GRAND TOTAL $______

Method of Payment

Check #________________  Amount________________________
Credit Card :   VISA(  )  MASTER CARD(  )  DISCOVER(  )
Credit Card #: ___________________ Expiration Date________
Name on Credit Card__________________________________________

Signature_______________________________________________________________

Please return your remittance and completed registration form to:
CWWCA, 1540 S. Holly St. #6, Denver, CO 80222
Phone: 303.759.2294   Fax: 303.757.0158

Cancellation Policy: Full registration fees will be refunded prior to Dec. 24, 2015. A $50 fee will be charged for cancellations submitted between Dec. 24, 2015 & Dec. 31, 2015. No fees will be refunded after Jan. 1, 2016. All cancellation requests must be submitted in writing to the CWWCA office.
TWG Meeting Recap

October 9, 2015 - Draft

TWG Meeting Recap
Chase Bank Building
333 West Hampden Ave., Englewood, CO 80110

Next TWG Meeting:
5:00 – 6:00 PM, Thursday, January 7, 2016
Prior to CWWCA Annual Conference
Crowne Plaza, DIA, Denver, CO
15500 East 40th Avenue, Denver, CO 80239

Moderator: Eugene Wagner
Moderator for the Next Meeting: Fred Baros

Attendees:
Eugene Wagner, David Wilson, Robert Cockerham, Mike Weidorn, Keith Branstetter, Fred Baros,
Doug Stephenson, Jeff Appel, Bryan Beckner, Brad Himes, Bruce Heir, Andy Horn, Joe Meigs,
Dan Niemela

DWR Report:
Well permit activity is similar to 2014. A summary is provided to the right.

The DWR and BOE have nearly completed a second draft of the revised Water Well Construction Rules and will post that draft to the BOE website when it is available. The final draft is scheduled to be complete near the beginning of 2016 with a hearing proposed in March 2016. The BOE is not planning to require notice or permitting for cistern installation.

Evidence is needed for the BOE to make an accusation of unlicensed cistern installation. The best type of evidence is an invoice for service. Otherwise, photos of the unlicensed contractor completing the installation may suffice.

CDPHE Discharge Permits:
At the October 2015 BOE meeting, Andrew Ross of the CDPHE reported that responsibility for discharge permitting may be transitioned to the DWR. Thom Hanna reported that the CDPHE pool discharge guidelines could provide a model for well discharge guidelines. Discussions regarding the CDPHE discharge permits for well discharge during drilling, testing, development and cleaning is more-or-less in a holding pattern.

Well Construction Rules
Approximately 20 comments were provided regarding the first draft of the revised Water Well Construction Rules. The BOE has not decided whether additional stakeholder meetings will be held.

Well Inspection Program
Dick Brown, CWWCA’s lobbyist has been active ahead of the legislative session. The CWWCA met with the Division of Natural Resources (DNR) staff to discuss funding for the well inspection program.

CDWR Well Permit Activity
From: 1/1/2015 to 10/8/2015

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Applications Received</td>
<td>3,986</td>
</tr>
<tr>
<td>Total all Permits Issued</td>
<td>3,575</td>
</tr>
<tr>
<td>Total New Exempt Permits Issued</td>
<td>2,422</td>
</tr>
<tr>
<td>Total New Non-Exempt Permits Issued</td>
<td>694</td>
</tr>
<tr>
<td>Replacement Permits Exempt</td>
<td>372</td>
</tr>
<tr>
<td>Replacement Permits Non-Exempt</td>
<td>87</td>
</tr>
<tr>
<td>Geothermal Applications</td>
<td>34</td>
</tr>
<tr>
<td>Geothermal Permits Issued</td>
<td>25</td>
</tr>
<tr>
<td>Monitoring Hole Notice</td>
<td>761</td>
</tr>
<tr>
<td>Total Wells Plugged and Sealed</td>
<td>595</td>
</tr>
</tbody>
</table>
The DNR reports that the well inspection program is just one of many important programs that compete for funding. The BOE has been concerned regarding the lack of environmental monitoring well inspection and permitting in addition to the lack of State funding for on-the-ground well inspectors. The CGWA will discuss support for the well inspection program.

**Plumbing Board**

The DWR proposed a change in wording to the plumbing statute that will clarify that the BOE has authority for any equipment installed up to the shut-off valve after the pressure tank attached to a water well. The Plumbing Board will continue to have jurisdiction over water conditioning equipment.

**Future Topics**

DWR Report  
Well Inspection Program  
Well Construction Rules  
CDPHE Discharge Permitting

Respectfully submitted by Daniel O. Niemela

*To review previous CWWCA TWG Technical Working Group recaps, visit us at CWWCA.org and look under “Technical Working Group”*
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.

c) Upon 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 shall be present at the well site at all times during all operations or may be represented by a registered apprentice capable of immediate communication with the licensed driller or licensed pump installer.

f) 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.

g) 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 be sent to the CWWCA and be added to the apprentice’s file.

For more information on this and other CWWCA educational opportunities
Go to CWWCA.org and look under education
Saving money, boosting productivity and employing happy, healthy individuals is something every business strives for, and you can do all three by taking one simple step: water well businesses that establish safety and health management systems can reduce their injury and illness costs by 20 to 40 percent.

When it comes to the costs associated with safety, consider the following OSHA statistics: Employers pay almost $1 billion per week for direct workers’ compensation costs alone, which comes straight out of company profits; Injuries and illnesses increase workers’ compensation and retraining costs; Lost productivity from injuries and illnesses costs companies roughly $63 billion each year.

**Measuring the Cost of Safety**

Demonstrating the value of safety to management is often a challenge because the return on investment (ROI) can be cumbersome to measure. Your goal in measuring safety is to balance your investment vs. the return expected. Where do you begin?

There are many different approaches to measuring the cost of safety, and the way you do so depends on your goal. Defining your goal helps you to determine what costs to track and how complex your tracking will be.

For example, you may want to capture certain data simply to determine what costs to build into the price of your services, or you may want to track your company’s total cost of safety to show increased profitability, which would include more specific data collection like safety wages and benefits, operational costs and insurance costs.

Since measuring can be time consuming, general cost formulas are available. A Stanford study conducted by Levitt and Samuelson places safety costs at 2.5 percent of overall costs, and a study published by the Economist Intelligence Unit estimates general safety costs at about 8 percent of payroll.

For measuring data, safety costs can be divided into two categories:

1. Direct (hard) costs, which include: Safety wages,

   Operational costs, Insurance premiums and/or attorney’s fees, Accidents and incidents, Fines and/or penalties

2. Indirect (soft) costs, which go beyond those recorded on paper, such as: Accident investigation, Repairing damaged property, Administrative expenses, Worker stress in the aftermath of an accident resulting in lost productivity, low employee morale and increased absenteeism, Training and compensating replacement workers, Poor reputation, which translates to difficulty attracting skilled workers and lost business share.

When calculating soft costs, minor accidents costs are about four times greater than direct costs, and serious accidents about 10 to 15 times greater, especially if the accident generates OSHA fines or litigation costs.

**How Can You Show ROI?**

OSHA studies indicate that for every $1 invested in effective safety programs, you can save $4 to $6 as illnesses, injuries and fatalities decline. With a good safety program in place, your costs will naturally decrease. It is important to determine what costs to measure to establish benchmarks, which can then be used to demonstrate the value of safety over time.

**Safety as a Core Business Strategy**

Industry studies report that companies who focus on safety as a core business strategy come out ahead. For example, the American Society of Safety Engineers reports that a fall protection program implementation by a U.S. construction company reduced their accident costs by 96 percent - from $4.25 to $0.18 per person-hour.

Safety experts believe that there is direct correlation between safety and a company’s profit. We are committed to helping you establish a strong safety, health and environmental program that protect both your workers and your bottom line. Contact us today at 970.223.1804 to learn more about our value-added services.
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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

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PLEASE CHECK THE APPROPRIATE MEMBERSHIP CATAGORY

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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

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THANK YOU!!!!

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Check # ___________________ Amount _______________________

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