PROGRAM
CWWCA MID-YEAR CONFERENCE
JULY 12-13, 2019
BEAVER RUN RESORT
620 VILLAGE ROAD
BRECKENRIDGE, CO 80424

HOTEL RESERVATION INFORMATION - 800-525-2253 – FREE PARKING & WIFI
ROOM BLOCK RATES START AT $132 + TAX
REFERENCE CWWCA 2019 MID-YEAR CONFERENCE
DEADLINE FOR ROOM BLOCK RATE – JUNE 11, 2019

*8 Hours of CE

Friday, July 12, 2019

AM 7:00  8:30  Supplier/Exhibitor Set-Up
8:15  8:30  CWWCA Board of Directors Working Session – Copper Top III
7:00  9:30  Registration – Floor 2 Foyer
8:30  9:30  Technical Working Group - Copper Top III
8:30  9:30  Exhibits Open
9:30  Supplier Introductions
9:30  10:50  “Drilling Markets Change and So Must We”  *1 hr
               Gary Hix, RG, CWD/PI - McEllhiney Lecturer
11:00 Noon “Membership Meeting”

PM Noon  1:00  SUPPLIER SPONSORED LUNCH – Copper Top III
1:00  2:00  “Meet with Suppliers at Table Top Exhibits”  *1 hr
2:00  2:30  SUPPLIER SPONSORED COFFEE & COOKIE BREAK
2:30  3:20  Supplier’s Meeting – Copper Top III
2:30  3:20  “Water Augmentation Plans and Changes of Use”  *1 hr
               Alyson Meyer Gould – Holsinger Law
               Chris Sanchez – Bishop-Brogden Associates, Inc
OR  2:30  3:20  “Test Prep Session” - Copper Top III
               Ray Newmyer, MGWC – NWP Drilling and Consulting
               Fred Rothauge – Hydro Resources
3:30  4:20  “Solar Inverters, Motor Protection”  *1 hr
               Dean Wygal – GRUNDFOS
OR  3:30  4:20  “Test Prep Session” - Copper Top III
               Ray Newmyer, MGWC – NWP Drilling and Consulting
               Fred Rothauge – Hydro Resources
4:30  5:20  “Well Loss – Where It Occurs”  *1 hr
               Thom Hanna – Johnson Screens
5:20  8:00  SUPPLIER SPONSORED HAPPY HOUR, MID-YEAR ADMINISTRATIVE AUCTION & DINNER BUFFET – Imperial Ballroom

(Continued on page 5)
ADVERTISING INFORMATION

DRILLSTEM ADVERTISING
Advertising rates for the DRILLSTEM, a quarterly publication of CWWCA
Deadlines for content: February 1st, May 1st, August 1st, November 1st
(Published March, 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>
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<tr>
<td>Full Page 7&quot;x10&quot;</td>
<td>$250</td>
<td>$450</td>
<td>$675</td>
<td>$850</td>
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<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>
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<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>
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<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.

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 PAYMENT TO:
CWWCA
P.O. Box 100939
Denver, CO 80250
Phone: 720-244-8024
Fax: 720-208-0620
PLEASE EMAIL CONTENT AND ADS TO:
E-mail: execdir@cwwca.org
Credit card payments taken by phone.

WEB SITE ADVERTISING

BANNER ADVERTISING
There is a banner advertisement on every page of the website. The advertisements rotate 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 225 pixels wide, by 150 pixels high.

CWWCA CONTACTS

Executive Director
Karie Walker
P.O. Box 100939
Denver, CO 80250
Phone: 720-244-8024
Fax: 720-208-0620
E-mail: execdir@cwwca.org

CWWCA Lobbyist
Richard G. Brown
Mobile: 303-601-9254
Phone: 303-695-6388
E-mail: dickscuba@gmail.com

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.cgwa.co

National Ground Water Association
www.ngwa.org

World Wide Drilling Resource
www.worldwidedrillingresource.com

CWWCA CALENDAR OF EVENTS

July 12-13, 2019  CWWCA Mid-Year Conference  Beaver Run Resort and Conference Center, Breckenridge
August 5, 2019    BOE (Board of Examiners)  1313 Sherman St Rm. 818, Denver
October 25, 2019 CWWCA Board of Directors Meeting  Chase Bank Building - 333 W Hampden Ave
November 4, 2019 BOE (Board of Examiners)  Basement Conference Room, Englewood
January 8-10, 2020 CWWCA Annual Conference  1313 Sherman St Rm. 818, Denver
                               Denver Marriott Tech Center, Denver
Spring has brought much needed moisture (snow and rain) to Colorado while keeping many of us out of the field and away from our work. But be assured Summer is well on its way and what a busy summer it shall be.

As we gear up for the busy season, we often add new employees and spend many hours training these young men and women in our trade. We need to remember to train and incorporate safety processes keeping everyone safe. The cost of insurance is ever increasing, when an accident occurs the cost goes up but more importantly our EMR (Experience Modification Rate) also goes up. Customers also look at our accident history and may choose not to allow companies with more risk to bid their projects and this influences our business profitability. I encourage you all to incorporate safety into your daily business activities.

For those of you interested in the Well Inspection Audit Report, a Hearing before the Legislative Audit Committee has been scheduled for 9:00-11:00 am on Tuesday, June 11th, 2019. The hearing will take place in the Legislative Services Building, LSB-B, 200 E 14th Ave, Denver, CO 80203. The hearing will be open to the public, but the Committee will not hear any public testimony at this time. We will report more on this at the Mid-Year in Breckenridge.

I personally want to thank those of you who contributed to our Buck Lively Scholarship Auction in January as well as those who contributed to the Buck Lively Scholarship Auction at Mountain States as the Scholarship Committee awarded 13 recipients each with $2600.00. This could not have happened if it wasn’t for you!

It’s that time of the year again when your CWWCA Program Committee is planning for our July 12th and 13th Mid-Year Conference in Breckenridge.

For the past several years the association has been challenged with increased costs for both the midyear and annual conferences while recognizing the need to keep our registration cost low for you, “our members”.

New this year will be a fund-raising auction to raise administrative funds for the association and the funds raised will help to offset the increased cost for our programs while maintaining minimal increases for member registrations to these events. Items to be auctioned may be donated by our suppliers and members who wish to add a little excitement for our Friday night dinner and live auction. Items for the auction will be on display at the supplier exhibit booths and a members donation table outside the classroom.

If you have items you would like to donate for the auction you may contact Karie Walker at execdir@cwwca.org or myself at frothauge@hydroresources.com and/or you can surprise us and bring something with you for this event.

As I have stated before, “The CWWCA is your association”. “It is here for you the Contractor”. Yet it is only made possible with the membership and hard work of our non-contractor members (suppliers, associates). Not only is it the responsibility of the CWWCA to provide you with needed CEU’s for license renewals, but as your CWWCA President, I and all of the CWWCA Board of Directors are here to provide you, our members, a voice at the National Ground Water Association (NGWA), and here at home with the Division of Water Resources (DWR) and with the Board of Examiners “BOE”.

Through our board and our many committees, we strive to keep you informed on issues which may have an influence on your business.

The objectives of this Association, the “Colorado Water Well Contractors Association”, the “CWWCA”, are and shall be:

**To assist**, promote, encourage, and support the interests and welfare of the Water Well Industry in all its phases generally, and in particular within Colorado;

**To foster**, aid and promote scientific education, standards, research and techniques in order to improve methods of well construction and development, and to advance the science of ground water hydrology;

**To promote** harmony and cooperation between well contractors and governmental and scientific agencies relative to the proper development and

(Continued on page 4)
protection of underground water supplies;

To encourage cooperation of all interested groups relative to the improvement of drilling and pumping equipment; to encourage, serve, assist and promote close cooperation with the National Ground Water Association;

To collect, analyze and disseminate to the public, facts about the role of the water well industry in the economy of Colorado and the nation;

And to advance generally the mutual interests of all those engaged in the water well industry, in their own and the public interest.

If you are not a member of the CWWCA or if you have employees that are not, I would like to encourage you and them to come together and join this association, “Your Association”. I want to encourage you to get involved and join on one of our working group committees. Your participation is invaluable and as most good leaders know the slogan “BETTER AND STRONGER TOGETHER” and we certainly are so Please Join and I’m, sure you will be glad you did.

We are looking forward to seeing you all in Breckenridge for this CWWCA’s Mid Year Conference.

Fred Rothauge, CWWCA President

Hydro Resources
13027 CR 18
Fort Lupton, Colorado 80621
Office (303)857-7540
Fax (303)857-3826
Cell (970)381-3788
e-Mail (frothauge@hydroresources.com)
**PROGRAM**

**CWWCA MID-YEAR CONFERENCE**

**JULY 12-13, 2019**

**BEAVER RUN RESORT**

**620 VILLAGE ROAD**

**BRECKENRIDGE, CO 80424**

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**Saturday, July 13, 2019**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>AM</td>
<td>Supplier/Exhibitor Tear-Down</td>
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<tr>
<td>7:00</td>
<td>Supplier-sponsored Breakfast Buffet – Imperial Ballroom</td>
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<tr>
<td>7:00</td>
<td>“CPR Skills Review”</td>
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<tr>
<td>8:50</td>
<td>Gene and Vicki Wagner - State Certified Emergency Medical Providers</td>
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<tr>
<td>9:00</td>
<td>“Safety Sense Makes Good Cents”</td>
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<tr>
<td>9:50</td>
<td>Rick Grinols – Hydro Resources</td>
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<tr>
<td>10:00</td>
<td>Supplier-sponsored Coffee &amp; Cookie Break</td>
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<tr>
<td>10:00</td>
<td>“DOT”</td>
</tr>
<tr>
<td>11:15</td>
<td>Ryan Byers, Front Range Compliance</td>
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<tr>
<td>1:30</td>
<td>CWWCA Board Meeting/Working Lunch – Peak 14</td>
</tr>
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**DON'T FORGET!**  **OUR BUCK LIVELY SCHOLARSHIP PROGRAM IS NOW A 501(C)(3). SO, CASH DONATIONS AT THE ANNUAL CONFERENCE BUCK LIVELY SCHOLARSHIP AUCTION, ARE TAX DEDUCTIBLE!**
BEAVER RUN ROOM RESERVATIONS FOR CWWCA 2019 MID-YEAR CONFERENCE

Conference Dates JULY 11-13, 2019

Please make your reservations early to ensure you get a room during a very busy time for Beaver Run.

Room Block Cutoff Date: June 11, 2019.

Attendees can use the online booking link: https://reservations.travelclick.com/97052?groupID=2422760 or call in their reservations at any time to #800-525-2253 and reference CWWCA 2019 Mid-Year Conference.

<table>
<thead>
<tr>
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<th>Rate</th>
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<tbody>
<tr>
<td>Hotel Room</td>
<td>132.00*</td>
</tr>
<tr>
<td>Studio</td>
<td>139.00*</td>
</tr>
<tr>
<td>Breckenridge Studio</td>
<td>159.00*</td>
</tr>
<tr>
<td>Colorado Suite</td>
<td>159.00*</td>
</tr>
<tr>
<td>One Bedroom Suite</td>
<td>169.00*</td>
</tr>
<tr>
<td>Summit Suite</td>
<td>169.00*</td>
</tr>
<tr>
<td>One Bedroom Suite - Building 4</td>
<td>169.00*</td>
</tr>
<tr>
<td>Two Bedroom Suite</td>
<td>225.00*</td>
</tr>
<tr>
<td>Two Bedroom Suite - Building 4</td>
<td>235.00*</td>
</tr>
<tr>
<td>Corporate Suite</td>
<td>305.00*</td>
</tr>
</tbody>
</table>

*Room rates do not include guestroom tax & resort fee which is still 18.45%.

Property Description:

Hotel Room features two queen beds, sitting area, mini-refrigerator, microwave
Studio features one queen bed, sleeper sofa, efficiency kitchen, living/dining area
Breckenridge Studio features one queen bed, sleeper sofa, upgraded efficiency kitchen, living/dining area, remodeled bath
Colorado Suite features one queen bed, sleeper sofa, efficiency kitchen, living/dining area, fireplace, private balcony
Summit Suite features one queen bed, sleeper sofa, upgraded efficiency kitchen, living/dining area, remodeled bath, fireplace, private balcony
One Bedroom Suite features one queen bed, sleeper sofa, full kitchen, living/dining area, fireplace, private balcony
One Bedroom Suite, Building 4 features one queen bed, sleeper sofa, full kitchen, living/dining area, fireplace, private balcony
Two Bedroom Suite features three queen beds, sleeper sofa, two bathrooms, full kitchen, living/dining area, fireplace, private balcony
Two Bedroom Suite, Building 4 features two queen beds, sleeper sofa, two bathrooms, full kitchen, living/dining area, fireplace, private balcony
Corporate Suite features one king bed, one queen bed, alcove bedding, sleeper sofa, full kitchen, living/dining area, fireplace, private balcony

There is no charge for garage or surface parking for guests staying at the resort.
Wireless internet access is complimentary in all guestrooms and resort common areas.
CWWCA MID-YEAR CONFERENCE ADMINISTRATIVE AUCTION
Breckenridge, CO
July 12-13, 2019

Well, it’s that time of the year again when your CWWCA Program Committee is planning for our July 12th and 13th Mid-Year Conference in Breckenridge.

For the past several years the association has been challenged with increased costs for both the mid-year and annual conferences while recognizing the need to keep our registration costs low for you, “our members and suppliers.”

New this year will be a low key, very laid back fund-raising auction in Breckenridge to raise administrative funds for the association and the funds raised will help to offset the increased costs for our programs while maintaining minimal increases for registrations to these events. Our new Conference Committee is coordinating the auction. Items to be auctioned may be donated by our suppliers and members who wish to add a little excitement for our Friday night dinner and live auction. Suppliers that opt in to donate to the auction can do so instead of offering supplier giveaways like we had last year. Suppliers will display their auction items at their table top exhibits and there will also be a donation table outside the classroom to display items donated by suppliers who don’t have table top exhibits, and also for items members would like to donate as well.

***Please note, the CWWCA Mid-Year Administrative Auction in Breckenridge is separate from the Buck Lively Scholarship Fund auction we host in Denver in January, so the items for this summer auction are not tax deductible.

If you have items you would like to donate for the auction you may contact Karie Walker at execdir@cwwca.org or myself at frothauge@hydroresources.com and/or you can surprise us and bring something with you for this event.

We are looking forward to seeing you all in Breckenridge for this CWWCA’s Mid-Year Conference and extend our thanks for your continued support of CWWCA.

Fred Rothauge, CWWCA President
REGISTRATION FORM
2019 CWWCA MID-YEAR CONFERENCE
BEAVER RUN RESORT
BRECKENRIDGE, CO

Please mail this registration form to:
CWWCA
P.O. Box 100939, Denver, CO 80250
Phone: 720-244-8024  Fax: 720-208-0620  Email: execdir@cwwca.org

Please Type or Print

Company Name
__________________________

PLEASE LIST NAMES FOR NAME BADGES

Registrant I
__________________________
Registrant II
__________________________
Registrant III
__________________________
Registrant IV
__________________________

Mailing Address
__________________________

City, State, Zip
__________________________

Phone__________________________ Fax__________________________ Email__________________________

FULL Conference Registration Fee INCLUDES Admission to all Courses, Friday Lunch, Friday Dinner & Saturday Breakfast

Instead of drink tickets this year, we will host supplier sponsored keg beer and we will also have a cash bar.

Payment received By June 28  After June 28  Number  Amount

CWWCA Member Fee  $199  $218  ____  $____
Employee Member/Spouse  $188  $208  ____  $____
Non-Member  $263  $283  ____  $____

2 State Licensing Test Prep Sessions ONLY  $135  ____  $____

Includes Admission and Meals on Friday ONLY
Please see the reverse side of this form for details!

TOTAL  ____  $____

**ADDITIONAL** GUEST TICKETS FOR PEOPLE NOT REGISTERED FOR THE FULL CONFERENCE

Friday Lunch Only  $35.00  ____  $____
Children Under 13 Lunch Only  $18.00  ____  $____
Friday Dinner Only  $50.00  ____  $____
Children Under 13 Dinner Only  $18.00  ____  $____
Saturday Breakfast Only  $38.00  ____  $____

TOTAL  ____  $____

**PLEASE NOTE, THERE IS A $7.00 CREDIT/DEBIT CARD CONVENIENCE FEE  $7.00 (Add $7.00 for credit/debit card payment)

TOTAL  ____  $____

Method of Payment: Check Number

Credit Card:  ____ Visa  ____ Master Card  ____ Discover  ____ AX
Credit Card #__________________________ Exp. Date____________________ CCV#____
Billing Zip Code__________________________
Signature__________________________

Cancellation Policy: Full registration fees will be refunded prior to June 28, 2019. A $50 fee will be charged for cancellations submitted between June 28, 2019 - July 5, 2019. No fees will be refunded after July 5, 2019. 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.
TWO STATE LICENSING TEST PREP SESSIONS

THERE IS NO CE FOR THESE SESSIONS

Friday, July 12, 2019

These sessions are set-up as personalized question and answer opportunities to go over concerns about the test. There is no formal class. It will be all hands-on.

Attendees are encouraged to email questions ahead of time, if at all possible, to Ray Newmyer at directionnwp@yahoo.com and/or Fred Rothauge at frothauge@hydrosresources.com

2:30-3:20 pm “Passing the State Licensing Test - Prep Session:
No CE Credit
Ray Newmyer, M.G.W.C., NWP Drilling & Consulting
Fred Rothauge, Hydro Resources

3:30-4:20 pm “Passing the State Licensing Test - Prep Session:
No CE Credit
Ray Newmyer, M.G.W.C., NWP Drilling & Consulting
Fred Rothauge, Hydro Resources

REGISTRATION FEE

Those who paid full conference registration fees can attend these sessions at no charge.
Those who are not registered for the full conference can attend these Friday sessions for $135.00. This price includes all meals and breaks on Friday so Test Prep attendees are welcome to attend the rest of the conference all day on Friday, July 12th.

Please Type or Print

NAME BADGES

Company Name
Registrait I
Registrait II
Registrait III
Registrait IV

*BOTH Test Prep Sessions $135.00 _____ $____
Price Includes: 
Friday - Continental Breakfast, Breaks, Lunch, Dinner Buffet and 1 Domestic Beer

CREDIT CARD CONVENIENCE FEE $ 7.00

TOTAL CONFERENCE REGISTRATION FEES $ ____
CWWCA MID-YEAR CONFERENCE
SUPPLIER REGISTRATION FORM

JULY 12-13, 2019

BEAVER RUN RESORT
620 VILLAGE ROAD
BRECKENRIDGE, CO 80424

HOTEL RESERVATION INFORMATION – 800-525-2253 – FREE PARKING & WIFI
ROOM BLOCK RATES START AT $132 + TAX
REFERENCE CWWCA 2019 MID-YEAR CONFERENCE
DEADLINE FOR ROOM BLOCK RATE – JUNE 11, 2019

SIGN UP NOW TO SECURE YOUR TABLE TOP SPOT!

SELECT AND SPONSOR ONE OR MORE OF THE FOLLOWING:

1. Sponsor Friday Evening Keg of Imported/Craft Beer $625.00 Value
   (No drink tickets this year. We will host supplier sponsored keg beer and we will also have a cash bar for all other drinks.)
   YES - $___________ (Minimum contribution $50.00)

2. Sponsor Friday Evening Social Dinner Buffet
   (No drink tickets this year. We will host supplier sponsored keg beer and we will also have a cash bar for all other drinks.)
   YES - $___________ (Minimum contribution $100.00)
   INCLUDES 1 DINNER BUFFET

3. Sponsor Friday Afternoon Break during Meetings
   YES - $___________ (Minimum contribution $50.00)

4. Sponsor Friday Lunch
   YES - $___________ (Minimum contribution $80.00)
   INCLUDES 1 FRIDAY LUNCH

5. Sponsor Saturday Morning Breakfast
   YES - $___________ (Minimum contribution $50.00)

TABLE TOP SPONSOR
** Display products and/or sales collateral on 6’ table top displays in the classroom Friday.

Attendees will meet with you at your table. If your company opts in to participate in the Mid-Year Administrative Auction you can display your items on your table top display.

YES - _______ $100.00 per Table Top
CWWCA MID-YEAR CONFERENCE
SUPPLIER REGISTRATION FORM

COMPANY NAME AND THE NAME OF THE CONFERENCE ATTENDEE

CONFERENCE ATTENDEE EMAIL AND PHONE NUMBER

ADDITIONAL EMPLOYEES AND/OR GUESTS ATTENDING

A LA CARTE MEAL PRICES

FRIDAY LUNCH $35.00 x _____ = $ ______
CHILD UNDER 13 FRIDAY LUNCH $18.00 x ____ = $ _____
FRIDAY DINNER $50.00 x _____ = $ _____
(No drink tickets this year. Supplier sponsored keg beer and cash bar instead.)
CHILD UNDER 13 FRIDAY DINNER $18.00 x ____ = $ _____
SATURDAY BREAKFAST $38.00 x _____ = $ _____

TOTAL SPONSORSHIPS: $ ______
TOTAL MEALS: $ ______

PLEASE NOTE, THERE IS A $7.00 CONVENIENCE FEE FOR CREDIT/DEBIT CARD PAYMENTS

$7.00 CREDIT/DEBIT CARD FEE $ 7.00

TOTAL: $ ______

Please send this confirmation and payments to:
CWWCA
P.O. BOX 100939
DENVER, CO 80250
PHONE: 720-244-8024 FAX: 720-208-0620 EMAIL: execdir@cwwca.org

THANK YOU FOR YOUR SUPPORT OF CWWCA!
CWWCA SUPPLIER DIRECTORS

Tom Harder
Western Hydro
5610 Parachute Circle
Colorado Springs, CO 80916
Phone: 303-589-8274

Danny Powell
Mitchell, Lewis & Slaver
4900 Osage Street, Suite 700
Denver, CO 80221
Phone: 303-563-9324

Check #
NAME ON CREDIT CARD ________________________________
Visa-MC-Discover-Amex # ___________________________
Expiration Date _____ CCV# _____ Billing Zip Code _______ Signature ____________

CANCELLATION POLICY: Full fees will be refunded prior to June 28, 2019. A $50 fee will be charged for cancellations submitted between June 28, 2019 – July 5, 2019. No fees will be refunded after July 5, 2019. All cancellations requests must be submitted in writing to the CWWCA office.
S4,000 - S35,000 SEMCO Pump Hoists

Ask about our biggest SEMCO Pump Hoist yet!!! NEW SEMCO S35,000

We have 11 different sizes for your well working needs. Personal or Company Use, Residential and Commercial.

HYDRORENCHE
S14H, S110H, S112H

PIPE ELEVATORS
Standard 1"-6"
Heavy Duty 6"-16"

J&K KWIK KLAMPS
1"-2" and 2-1/2"-4"
O.G. Blouin’s last meeting as a Member of the Board of Examiners was May 6, 2019. The rest of the Board and Staff had cake and a small celebration. I had to leave early, so I’m unable to report on how tasty it may have been!

We’re still waiting to see who our new Governor deems worthy of replacing him! I guess we’ll find out in August.

After a long drawn out process, the report from the Legislative Audit Committee concerning the Well Inspection Program will be announced to the public on June 11th, 2019, slated for 9-11AM.

The meeting will be open to the public, however there will be no opportunity for any testimony or opinion.

For anyone that’s interested the location is the Legislative Services Building, LSB-B, 200 E 14th Ave, Denver. Just down the block from the Division of Water Resources.

It will be very interesting to see what, if anything, comes of it.

There was some discussion on the merits and disadvantages of the GWS-68 form. The form is used to document a well that has no permit but constructed after June 1, 1972. During the last Rulemaking process a Rule was initiated so that a licensed Contractor had to fill out the form. In the past it could be a Homeowner, or Realtor, or theoretically anybody that filled out the form.

Making it necessary to have a licensed Contractor do the inspection gave it a better chance to be more accurate and more stringent.

The issue brought forth is that even though a licensed Contractor is doing the inspection, there are still many things about the well that we just don’t know. You can say with an educated guess that a well was probably constructed properly….but there’s no way to know if it’s grouted properly, either at the surface or down the hole, if grouting was a requirement for the aquifer(s) being constructed into. You can’t say if the perforations are in the proper location.

Another argument is if you can get a well permitted after the fact, why would you go through the trouble. You can theoretically construct a well however you see fit, without having to abide by any regulations and then send in a GWS-68 and get a permit. Discussion will continue on this subject. The worst case, or possibly the right thing, depending on your point of view, may be the adoption of a policy that would make all wells drilled without a valid well permit after June 1, 1972 illegal, and be subject to abandonment.

If anyone has thoughts on the matter please contact me via the email address attached, and I will be happy to share them with the Board.

These people passed their oral exams on May 6 and are now set to be licensed:

Frank Williams (Gunnison, CO), Air Rotary Well Construction
Tyler McCracken (Olathe, CO), Air Rotary Well Construction
Terry Atnip (Lander, WY), Air and Mud Rotary; Pumps Both

Sincerely,

Bruce Hier
bhhier@msn.com
CYCLE GARD®
CONSTANT PRESSURE
PUMP CONTROL

- Maintains a Constant Pressure
- Stops Pump from Cycling
- Hydraulically Operated
- Easy to Install
- Maintenance Free
- Low Pressure Fall Off

80DIVFD SERIES
SUBMERSIBLE
CHECK VALVES

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The General Assembly has adjourned sine die. Absent a special session this summer or fall, legislators are gone from the Capitol until January 8, 2020. “Sine die” is from the Latin and literally means adjournment without day. The session was gavelled closed in the late afternoon of May 3. Absent a special session this summer or fall, legislators are gone from the Capitol until January 8, 2020.

When they adjourn, one cannot help but reflect on the country song by Roy Clark: “Thank God and Greyhound You’re Gone.”

This report will highlight the final disposition of the bills of interest as of the adjournment. Governor Polis has until June 2 to act on bills that reach his desk following adjournment sine die.

The status of bills table is being updated as of sine die. However, there are a few bills that cannot be definitively called until the final House and Senate Journals are published. In the closing hours of a session, many procedures are set aside to expedite the handling of conference committee reports and other actions. It takes a few days for the official documents to catch up with the action.

If you have questions or need information about a particular bill, please contact me and I’ll get the information for you.

Laws Enacted Compendium

After the final date for the Governor to act on bills, we will prepare our annual compendium of new laws that were enacted. It should be completed and distributed by the end of June. Action on a new law does not necessarily end with the Governor’s signature. Some new laws have specific effective dates upon which they go into effect. Some new laws require agencies to promulgate rules. An agency cannot commence formal rule making until the new law is officially operational. An agency can, of course, do a lot of preparatory work to set the stage for the rule making but cannot commence the publication of proposed rules, set a hearing date and so on until the new law is officially in effect. The compendium includes the effective date of each of the new laws of interest.

The categories of new laws change with each legislative session. There are some categories that are perpetually of interest – like new laws affecting employer-employee relationships. This year we will add a category of sales tax. In its search for money to fund programs and projects, the legislature grabbed on to the vendor retention fee and scooped it all up. The first iteration of the money transfer was to fund affordable housing, but a wrinkle developed over funding for the Governor’s health insurance reinsurance bill and some of the vendor fee that was to go to affordable housing was diverted to the yet to be created reinsurance program. There is a residual fee still available to vendors, but it will be far less than the fee that has been used for many years. We will provide more information on that change in the compendium.

This was a concerning development because it signaled a complete lack of concern by the Governor and the legislature for the burden this will place on retailers. The vendor fee was established many, many years ago to provide minimal compensation for retailers that collect and remit the state sales tax to the Department of Revenue. Retailers are mandated to perform the duties as agents of the Department of Revenue. The retailer not only bears the burden of having computer systems that identify and charge the customer for sales tax on transactions involving certain items that have been deemed taxable by state law, the retailer bears the liability for any mistakes that are made for which the State of Colorado is underfunded. The vendor fee was established to provide retailers with some compensation for exercising what would otherwise be the duty of the Department of Revenue. Because these changes are of direct interest to our members, we will provide a more comprehensive overview in the compendium.

Water Resources Review Committee

During each interim period, the legislature has a committee dedicated to water issues. It is a joint committee composed (usually) by members of the two agriculture committees and chaired by the chairmen of the agriculture committees. The chairmanship rotates between the House and the Senate. This year, the chairman will be Senate Kerry Donovan. The vice chairman will be Rep. Dylan Roberts. The full membership of the WRRC has now been named and the members all come from the agriculture committees of the House and Senate. Senator Donovan has announced committee meeting dates but not what subjects she wishes to address this summer. The first meeting will be in late August in conjunction with the summer meeting of the Colorado Water Congress.

At this point, we do not intend to ask for any issues to be brought before the WRRC. However, that might change when the audit of the water well inspection program is released in mid-June.

The Audit

We have a date for the State Auditor report of the water well inspection program. It will be June 9 in the morning. The Audit Committee has reserved a full 2-hour block for the report and analysis by the State Auditor. We will receive a copy of the audit at that time. The Audit Committee does not allow public testimony, but we will be present at the meeting.

The meeting will be broadcast on the Internet. We will distribute the links that can be used by anyone who wishes to tune in and listen to the proceedings. Those links will be distributed at least a day prior to the June 9 meeting.
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BOARD OF EXAMINERS UPDATE

GEOPHYSICAL LOG WAIVER REQUESTS

Rule 9 of the Statewide Nontributary Groundwater Rules (2 CCR 402-7) requires a geophysical log for all wells permitted pursuant to Section 37-90-137(4), C.R.S. The geophysical logging requirement can be waived by the State Engineer’s staff if there is an existing geophysical log from that aquifer located within 1,320 feet of the proposed well which is acceptable to the State Engineer and is representative of aquifer conditions at the location of the permitted well. Please note that the geophysical log must show data for the entire length of the drilled borehole. Partial geophysical logs are not acceptable. The State Engineer may also waive the logging requirement if the log will not provide data useful to the administration of groundwater in the area; for example, the well is completed in the shallowest-most bedrock (Type II) aquifer and does not reach the base of the aquifer.

Requests for geophysical log waivers must be submitted using the AskDWR tool, http://water.state.co.us/groundwater/BOE/Pages/VariancesWaivers.aspx. This tool will now require the requestor to indicate the reason for the request; either “shallow-most aquifer” or “existing geophysical log.” If the requestor has chosen “existing geophysical log,” the permit number associated with the geophysical log (or COGCC API number) must be provided with the request or it will be returned for additional information.

The CDSS Geophysical Log tool, https://dnrweb.state.co.us/cdss/GroundWater/GeophysicalLogs/Search, and Map Viewer, https://gis.colorado.gov/dnrviewer/index.html?viewer=mapviewer#, can help in determining if existing logs are located within 1,320 feet of the permitted location of the well in question. An acceptable log must be representative of the target aquifer. Existing logs that do not penetrate the target aquifer are not acceptable.

GWS-68 POST-CONSTRUCTION WELL INSPECTION REPORT

Please note that photos will now be required when submitting a GWS-68. A revised form can be downloaded from http://water.state.co.us/DWRDocs/Forms/Pages/FormsHome.aspx.

WELL INSPECTION PROGRAM AUDIT

The Office of the State Auditor has concluded their review of the Well Inspection Program. Please visit their website, https://leg.colorado.gov/agencies-office-of-the-state-auditor, for more information.

AUGUST BOARD OF EXAMINERS MEETING

The BOE will meet Friday August 2nd, 2019 (not the normally scheduled first Monday in August).
TWG Meeting Recap

Bishop-Brogden Associates
333 W Hampden Avenue
Englewood, CO 80110

Attendees:
Bruce Hier, Tom Harder, Andy Horn, Doug Stephenson, Mike Temple, Joe Meigs, Daniel Niemela, John Shuler, Keith Branstetter, Chris Sanchez, Kevin Donegan, Travis Day, and Brad Himes

Moderator:
Brad Himes

Next TWG Meeting:
July 11, 2019
Beverl Run Resort
333 W Hampden Avenue
620 Village Road
Breckenridge, CO 80424

DWR Update
Well permitting activity during the first quarter of 2019 was lower than the same period in 2018, as shown in the summary below. That summary shows, relative to the first quarter of 2018, a 15% decrease in permit applications, 12% decrease in permits issued and 20% decrease in exempt permits issued.

Well Permit Activity Log

<table>
<thead>
<tr>
<th>Action Name</th>
<th>Year</th>
<th>1/1 - 3/31</th>
<th>4/1-6/30</th>
<th>7/1 - 9/30</th>
<th>10/1 - 12/31</th>
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<tr>
<td>Total Application Received</td>
<td>2018</td>
<td>1591</td>
<td>2144</td>
<td>1873</td>
<td>1478</td>
<td>7086</td>
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<td>Permits Issued</td>
<td>2018</td>
<td>1252</td>
<td>1849</td>
<td>1808</td>
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<td>6264</td>
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<td>New Permits Issued (Exempt)</td>
<td>2018</td>
<td>867</td>
<td>1108</td>
<td>1265</td>
<td>907</td>
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<td>New Permits Issued (Non Exempt)</td>
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<td>401</td>
<td>668</td>
<td>388</td>
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<td>Replacement Permits Issued (Exempt)</td>
<td>2018</td>
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<td>142</td>
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<td>Replacement Permits Issued (Non Exempt)</td>
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<td>29</td>
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<td>Geothermal Use Applications Received</td>
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<td>Geothermal Use Permits Issued</td>
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<td>42</td>
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<td>Monitoring Hole Notices Issued</td>
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<td>Well Constructed</td>
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<td>325</td>
<td>296</td>
<td>274</td>
<td>1120</td>
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</tbody>
</table>

(Continued on page 19)
Well Inspection Program
The final hearing for the Well Inspection Program audit will be either June 10 or 11th, wherein the State Auditor will present their findings. The hearing will be open to the public, but there will be no public testimony. The report is projected to be finalized by the middle of May but will not be publicly available before the day of the hearing.

The Division 3 Well Inspector will be spending more time in Division 2 (Arkansas River Basin) and Division 7 (San Juan/Dolores River Basin) in the future.

DWR Forms
Kevin Donegan noted that the proposed well reporting forms introduced in January will not be used. Instead, the DWR will implement a ‘Turbo-tax style' online system along with a new website for well permit applications and for well construction, abandonment and pump installation reporting. All forms will be mobile compatible. Lithologic reports will be as planned, utilizing a drop-down menu. All wells will require an aquifer name and that list is being constructed with consideration of aquifers with differing local and regional names.

The new website will be integrated into the State’s payment portal for processing credit cards for well permit applications. The DWR will be a paperless agency once the online forms are live. Creation of an offline mobile app was discussed but is unlikely at this point. Doug Stephenson noted that 80% of contractor allegations pertain to late reporting; hopefully the new system will make timely submittal easier.

The DWR presented a new summary of pump installation reports received during January 2018 through April 2019, see below. Given the large number of wells in the State, DWR staff expected to see a greater number of replacement pump installations than initial pump installations. However, the summary shows a greater number of initial pump installations than replacement installations. DWR staff suspect that many replacement pump installations are not being reported. Rules 11, 17.1 and 17.3 of the Water Well Construction Rules require submission of a Pump Installation and Production Equipment Test Report (GWS-32) for installation of a replacement pump and failure to submit replacement pump reports is the leading reason for allegations. [Additional comments inserted by author for sake of background discussion at prior TWG meetings: On one hand, replacement pump reporting requirements require additional time and expense, albeit minor. On the other hand, such reports provide a record of pump setting depth and pump capacity so that future maintenance activities can be completed safely and properly. Another reason for replacement pump installation reports is to document compliance with the permitted pumping rate.]

Board of Examiners
The Board of Examiners is accepting applications for a new contractor member; the seat becomes available in June 2019.

Ground Water Discharge Permitting
The Attorney General’s Office has initially concluded that water quality control permitting for well development and well testing discharge to ground water is under the jurisdiction of the DWR. Discharge to ground water is rigidly defined as discharges that do not reach a natural stream. A natural stream is broadly defined to includes drainages that rarely flow; containment of discharge will be required in many circumstances. DWR hopes to implement “low risk” guidelines for such discharges. However, any final policy or

(Continued on page 21)
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guidelines is months to years away. At this point, NSF 60 approved additives, chlorine and natural turbidity are likely to be approved as “low risk.” Well development and well testing discharges with other additives or well rehabilitation discharges will continue be handled by the CDPane.

OSHA Crane Standard
A CWWCA member contacted CWWCA Executive Director Karie Walker, regarding the OSHA Crane Standard (Rule 1926.1400) and its impact on water well contractors. (The following is a summary of TWG discussion, but not intended to be a conclusion of Crane Standard applicability to water well contracting.) The Crane Standard requires that crane operators have a national certification, which includes a 40-hour class taught in a limited number of locations. However, there is an exclusion to the Standard for dedicated drilling rigs. Furthermore, the OSHA “Crane Standard” falls under OSHA “Construction Standards,” while water well activities fall under OSHA “General Industry Standards.” From time-to-time, water well contractors outsource crane work, for example during pump work. In this instance, the “Crane Standard” may apply. No member of the TWG was aware of an instance where the Crane Standard has been an issue in water well contracting activities.

Re-permitting Monitoring Wells to Production Wells (Fee or Exempt)
There was discussion regarding fee well permitting for a well initially construction pursuant to a monitoring well permit. A well construction pursuant to a GWS-51 “Notice of Intent to Construct Monitoring Hole(s)” can be re-permitted as a permanent monitoring well but cannot be re-permitted as a production well (fee or exempt). A well constructed pursuant to applicable production well Water Well Construction Rules standards and a monitoring well permit issued pursuant to GWS-46 “Monitoring/Observation Water Well Permit Application” for a specific location can be re-permitted as a production well (fee or exempt), subject to 600-ft spacing in the case of a fee well and applicable water rights statutes. GWS-46 applications allow a monitoring well to be constructed on a specified tract of land in a specified Section, similar to Water Well Construction Rule 6.2.3. In that situation, the actual well location is reported following construction on the GWS-31 “Well Construction and Yield Estimate Report.”

A question was raised whether a well constructed in the second instance (to production well standards and pursuant to a well permit issued pursuant to a GWS-46) can be re-permitted as a production well if the specific location is not identified on the GWS-46 application but is later reported on a GWS-31. That flexibility would allow an owner to identify a favorable well location in geologically challenging terrain without the expense of multiple fee well permit applications.

Update after the meeting: The Chief of Water Supply, Outside Designated Basins at DWR (Jeff Deatherage) sees no problems with permitting a well drilled anywhere on the property under a GWS-46 as a fee well, as long as all other conditions are met. The actual location should be reported on the permit application.

Statewide Nontributary Rules
The State is reviewing the Statewide Nontributary Rules. Rulemaking may be forthcoming. One outstanding issue is re-permitting of an exempt nontributary well to a fee well where there is no geophysical log of the uncased borehole.

Senate Bill 5 Tool
The DWR is revising the Senate Bill 5 Denver Basin aquifer determination tool. Currently, that tool extrapolates aquifer top elevations, bottom elevations and sand thicknesses from a one-mile point-grid. DWR is looking at improving resolution of the extrapolation for UTM points.

Nontributary Determinations
The DWR has received no new nontributary determination applications during the past 2 years.

Identification of Aquifer Types and Location of Confining Layers on Well Permits
Clarity is desired regarding identification of aquifer types (Type I, II, III) and the location of confining layers in Type I aquifers. Such clarity would benefit contractors in complying with standards of the Water Well Construction Rules (although Rule 10.1.2 requires contractor to “Prior to starting construction...investigate and become familiar with the geology of potential aquifers...”) On one hand, additional information on a well permit regarding geologic conditions would aid the contractor. On the other hand, it is the contractor’s responsibility to “investigate and become familiar” with such geologic conditions and additional permit information could be construed to be a substitute for a contractor’s personal investigation.

A new, online version of the Colorado Groundwater atlas may improve contractors’ ability to investigate aquifer conditions throughout the State.

Future Topics
Private drillers and compliance testing
DWR Update
Well Inspection Program
DWR Forms
Re-permitting Monitoring Wells to Production Wells
GWS-68 Post-Construction Well Report

Respectfully submitted by Dan Niemela and John Shuler
**Buck Lively Scholarship Recipients**

**Mission and Goals Statements**

**Mattie Wiedorn**

As I had entered high school I had no idea what I was planning in my career, especially since the classes that I took never really focused on a specific career. It was in 9th grade that I had found that I had a real interest for sciences that were focused on health and medicine. I did everything I could to try and find ways to further develop my knowledge of my favorite subject, until eventually I was lucky enough to land a position in the Bollman Technical Education Center’s Medical Sciences program. There, my interest in health sciences grew and I was finally able to focus my career goals. But it didn’t stop there. While I was at Medical Sciences I had learned and gotten involved in the Health Occupations for Students of America, where they held state competitions for different categories within the medical field. I studied and gained a significant interest in Epidemiology and even won Top 10 in the state competition. The experience overall had allowed for me to find an interest in laboratory sciences.

As of this year I have been accepted into the University of Colorado, Colorado Springs. There, I plan to attend the Pre-Medicine Program to gain entry into a medical school in Colorado. My main focus will most likely involve studying laboratory sciences to enter a career in Epidemiology. Because it is a career goal that I genuinely enjoy and have already made great strides for from volunteering, to extensive testing, to learning new skills and being thrown into the field with them, I believe that I have the ability to succeed in my college work.

**Kegan Hamacher**

After graduation high school, I plan to attend the University of Colorado, Colorado Springs (UCCS). During my time there I plan to study Elementary Education. I hope to then graduate with a Bachelors of Innovation in Inclusive Early Childhood Education. Once I graduate I plan to look for jobs and hope to have one by August of 2023. In order to go to college I plan to work all summer and get enough money to be able to pay for college myself.

I believe I deserve this scholarship because I am a very ambitious student. Whether it be in school or sports, I always give a 110% effort all of the time. I am also very determined when it comes to being successful because I want to represent myself and my family well. I could also use this scholarship to help pay for some of my schooling since I am paying for all of it myself. Being able to go to college is an accomplishment in itself because not many people in my family have been able to do so. Not only have some not been able to, but most have chosen not to go, which fuels my fire even more to go and graduate college.

**Joel David George**

My education goal statement is to achieve the highest knowledge possible from my schooling. The schooling I have already received from Big Sandy has made me ready to attend college. I have applied and been accepted to the University of Colorado at Colorado Springs where I will be taking the next step of my life. I have chosen to attend UCCS because of the well renowned business program given at the University and affordability. The field of study that I am entering is business finance to pursue a job in the financial world. I would like to become a financial advisor so that I am able to help people achieve financial stability in all phases of their life. I am interested in this because I have seen so many individuals’ financial struggles impact so many different parts of their own life and I would like to make their financial worries as small as possible. I have worked for Hamacher Well Works for a little under two years and I feel that this job has made me more conscious of how important financial responsibly are and how important they are for future needs and wants. The responsibility of having this job has helped me create good time management which I feel is very important in all parts of life whether that be in school or at a career. I have realized that through hard work I have been able to achieve some of my financial goals in my young life. I have been able to invest some of my money with a financial advisor in hopes that my investments will prove profitable in the future and further submerge myself into the financial world.

(Continued on page 23)
Ethan Beeman

I am currently a freshman at Cisco College and am working on my general or core subjects before transferring to Tarleton State University to continue my degree plan and graduate with a Bachelor’s in Criminology/Criminal Justice studies. Looking at all the career options for my future was a big task when I had just started high school and we were made to write an essay on what we wanted to be when we graduated. Barely a freshman in high school without any real idea of what opportunities were out there it was a daunting task to think about such an adult decision. I diligently undertook the task of trying all kinds of classes in science, IT, agriculture, culinary, trades and law. By sophomore year I had made up my mind that law is the field I wish to study. The Chief of Police for the City of Clyde nominated me for a spot on the Forensic Science and Criminal Academy team this past summer (2017). I traveled to Washington D.C. and for a week studied and had sessions taught by top forensic scientists with the FBI, district and court of appeal justices, and so many law and leadership professionals.

This experience only solidified my decision to follow this path for a degree in criminal law/justice. I started my freshman year at Cisco College in August of 2018. The first semester I got registered late so had to settle for the available classes and instructors before the semester started. I enjoyed the experience and really believe that if high school functioned the way college does that more students would finish high school and want to go to a trade school or 4-year college. My second semester at Cisco has been so satisfying since I was able to register early, get all the good classes during really good times and some of the best professors on campus. I am enjoying all of my classes which consist of English Literature, US History, Texas Government and Public Speaking. I have also been working really hard to save up money for a trip to China later this summer. I was nominated again by my peers to attend an International Relations and Foreign Affairs summer trip.

Courtney Beeman

Being a freshman in college, I am still learning what my strong suits and passions are. As I reflect on what my current educational and career goals are, I am starting to piece together what I want to do with my life.

As I stated in my progress report, I am currently looking towards business as a potential major and educational route. I am currently working on switching my major from Liberal Arts to Business Administration. With a degree in business or marketing, I would like to own my own business. My long-term career goal is to use my love of art and my ability to organize and plan things to help others do the same. Whether that is taking over the cattle or pump businesses from my dad or opening my own marketing company. I want to be able to utilize things I am good at in order to make a career instead of a job for myself, hopefully one where I am self-employed. Although I am not completely sure what my plan will be or where the future will take me, these are two goals I have for myself in my career. My short-term educational goals are to complete my first year of college with a 4.0 GPA and to finalize a direction I would like to go in with my major and education. My long-term educational goals are to graduate from San Juan College in 2020 and transfer to a four-year college to get my bachelor's degree. Through all of this, one big goal I have for myself is to graduate with little to no student debt. Receiving this scholarship would allow me to take a big step towards that goal.

Brooklyn Harding

My hard work ethic has helped me come far academically and as an overall person. I don’t leave a project unfinished and tackle my work head on, even if it’s something I don’t particularly like doing. I love learning and helping others learn. I’ve always wanted to excel in school which means having to put in extra time studying and doing homework, which helped develop my love for hard work. I then applied my hard work ethic to everything I do, whether it’s academically or volunteering.

Volunteering is something I have always been passionate about. I’ve always liked taking my time and putting it into helping others. I’ve spent almost a year now volunteering at the Yuma Public Library. I started by helping out copying papers or cutting things out to prepare for the youth programs, then
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began interacting with the kids in the reading programs. I love helping children develop a passion for reading and knowledge. I have recently begun tutoring a middle school student in my neighborhood in math.

I've always been strong-headed, one of my strongest qualities that helps me be a good leader. I'm not scared to take charge during group activities or contribute my ideas. I listen to others and always take their ideas into consideration and test them out. I think leadership is about putting in as much effort as everyone else in the group, and encouraging everyone else to put in their ideas. My leadership skills are about believing in your ability to produce good solutions but letting others develop their ideas as much as your own, and inspiring them to do that.

I have not settled on a major for college yet but plan to pursue a minor in Leadership, a program offered by the University of Denver. I am hopeful I will be able to use my education to continue to help those in my community, my state, and my country.

Chereen Zahner

As I continue into my senior year at Colorado State University to pursue a Bachelor of Science degree in Civil Engineering and Mathematics, my focus has remained on building creative surroundings within our environment to help people live a healthy and happy life. I continue to learn more and more about the world that we live in and how I may affect change in the future as a Civil Engineer and a Mathematician. I continue to explore different areas of concentration under the Civil Engineering major including environmental, structural, and transportation. I have been an Officer in the Engineers Without Borders club at Colorado State University for two years now. Currently, the Engineers Without Borders club is in the process of changing the name to Rams Without Borders to allow all students the opportunity to join. I was the youngest member of the Engineers Without Borders club at Colorado State University for a long time. As the upper classmen graduate and leave, I hope to help create a solid foundation for future projects as an International Design Team member. For example, I would like to expand the projects in our club to be much more easily assessable to students by selecting projects on the local, national, and international level where all students who are interested can visit project sites.

In addition, I find myself living in a place that grants me freedom, clean water, food, shelter, and security. In comparison, there are people living in poverty with extreme famine and water that causes illness and disease. I am now considering joining the Peace Corps upon graduation to further help impoverished and underdeveloped countries around the world. This would be a 27-month commitment and a big responsibility, but I do feel that the rewards of this kind of selfless service would be so genuine and real. I also have an interest in working for the Federal Emergency Management Agency (FEMA) to help disaster victims rebuild their lives. As a Civil Engineer, I feel I could make a huge contribution to both of these organizations.

Upon graduation, I am also seriously considering graduate school to earn a Master of Business Administration. This will help me better understand how companies operate as a whole. The economics, accounting, finance, and administration all must be considered when completing these sometimes very large projects. Mathematics is something that I have truly enjoyed learning. Managing budgets, problem solving, and data analysis are all something I would like to have a good understanding of as a Civil Engineer.

Goals for myself in the future will continue to be working hard, be academically strong in school, research ways to improve our environment, help people maintain good health, and volunteer in the community. My hope is to get another Engineering Internship over the summer to continue to gain more real-world experience. Thank you for your consideration in the Colorado Water Well Contractors Association Buck Lively Scholarship application.

Chris Harding

I am a fifth generation Coloradoan whose family has resided in Yuma County Colorado, since the early 1900s. Growing up in a small Agricultural community has taught me many important life lessons that have helped shape me into the man I am so far. My appreciation for small communities will hopefully lead me back to Yuma, where my family still resides.

My family still owns the family farms but have
not operated them since my grandfather’s retirement a few years ago. In addition to what I have gained from school and athletics, I have gained most of my life experience assisting different farmers and ranchers in the area the past several years. My experiences include working with horses, cattle, hogs, driving tractor and combine at harvest, as well as working on sprinklers and irrigation pumps.

I am presently a second semester junior at Chadron State College. My goal is to complete my Business degree with an emphasis in Agriculture next year. Upon graduation, I hope to be employed in an Agricultural business, preferably production Ag or a related business. My longer term desire is to return to Yuma, CO and become involved in our family business, Quality Irrigation. Another goal is to one day take over the operation and management of our family farm, a dryland and irrigated farm located in Phillips County and Yuma County, Colorado. With my passion for Agriculture, the ability I am gaining through my college education, and the experience I continue to build as I work for and help other Ag producers, I plan to be prepared to reach my goals.

(Continued from page 25)

Bruce Valentine III

As to specific educational and career goals, my interests largely revolve around using technology and creative problem solving to improve as many lives as possible. I am currently pursuing a degree in Information Analytics and Computer Science, hoping to apply these skills in my professional life in order to achieve the above goal. In addition to studying Information Analytics and Computer Science I am actively involved in the new venture challenge on campus focusing on startups and strategy, along with the CU Boulder Honors program. My ultimate goal is to start a company of my own, potentially in the space of information and internet security or consumer products and manufacturing. I am also interested in pursuing political involvement later in life, hoping to focus on policymaking that affects the security of information and online privacy. I am hoping to become involved with student government at CU in order to gain experience in this field, however this opportunity is only available to...
students second year and up.

My further career interests include finding ways to improve educational opportunities for low income students domestically and developing nations worldwide. Education is the foundation of a successful and prosperous life and through the use of technology better education can be delivered to more individuals in more places. This goal defines my largest objective of improving people’s lives through technology as if I am able to accomplish greater access to education for all the overall quality of life for all people will be improved.

**Brendan Bottrell**

My name is Brendan Bottrell, and I am currently committed to study at the American Musical and Dramatic Academy (AMDA) in Los Angeles, California, to get my Bachelor’s of Fine Arts Acting. I’m doing this because I have found a passion for the craft, and know that my happiest state is when I am creating for the good of others. I have been acting for 5 years now, and have branched off to be a vocalist and international award winning writer and director of short films. I really hope to use my craft to help those less fortunate than myself, and use my status as a public figure to advocate for those less fortunate than ourselves. One project that I thing is particularly overlooked is the water crisis that is still going on in many lower income areas of the world. Every actor is a public figure, and I want to utilize my passion for the performing arts in order to encourage people to support the amazing organizations that are trying to help assist these areas in a way that allows their progress to become self sufficient, and to preserve the existing culture there in the process.

**Brandi Einspahr**

The 4-H program has help me discover who I am and what I want to do when I grow up. One of the main life lessons that I have learned from 4-H is that if you want something in life then you have to work for it because it is not just going to be handed to you. Growing up I have always had a love for animals. 4-H has helped me discover that I love to watch animals grow up, learn their different temperaments, and how to treat them when they are sick. There have been so many times that I have had to have a veterinarian come to my animals to give them vaccines when they are sick. I have learned so much from 4-H such as the difference between intermuscular shots and subcutaneous. An intermuscular shot you inject straight into the animal’s muscle in the neck. On the other hand, a subcutaneous shot is injected underneath of the animal’s skin in the neck. Before I was a freshman in high school I knew that I wanted to work with animals when I grew up.

Since I was a freshman I have wanted to major in zoology. My goal is to be able to work with the big cats such as the tigers, lions, and cheetahs along with the elephants. I have always been interested in the big cats after seeing how zookeepers interact with them. I have been researching elephants since I was young. Any research paper that I had to do on an animal I would always choose a different species of elephant to learn more information about. I also want to minor in veterinary medicine. I want to minor in veterinary medicine so that one day I can open my own vet clinic where I can work on big animals and small animals. I am looking forward to my future and carrying on my education.

**Anadelia Ortiz Madera**

My name is Anadelia Ortiz Madera and I am currently a student at Community College of Denver. I am a Certified Nursing Assistant, Assistant Teacher, and Dental Assistant. I am committed towards an Associate of Applied Science. I plan on becoming a Radiologic Technologist and working in a hospital. I am the first one in my family to attend college which gives me a lot of advantages. Being the oldest in my family it is my responsibility to set a good role for my younger brothers. After I graduate college and become a Radiologic Technologist, I want to give back to my community by volunteering at hospitals and urgent care. Ever since I was a little girl, I felt the need to help others who were unable to do things for themselves, or ill. During my senior year of high school I got hired as a Nursing Assistant and as an Assistant Teacher in both jobs, I get the advantage of doing what I love which is helping others. My relevance to the groundwater industry is that groundwater is the most important natural resource which many people use as a public supply.
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Cyber exposures aren’t going away and, in fact, continue to escalate. Businesses need to be prepared in the event that a cyber attack strikes. To learn more about cyber liability insurance, contact us today.
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The Colorado Water Well Contractors Association Apprenticeship Program 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.

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 driller’s and/or pump installer’s 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.
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