Breckenridge a Success!

Supplier Directors David Wilson and James Powers thank the Suppliers for their contributions to the 2011 Mid-Year Social Hour.

REMINDER!!

CWWCA 2012 ANNUAL CONFERENCE

JANUARY 5-7, 2012

CROWNE PLAZA, DIA, DENVER, CO

Social Hour Supplier Contributors

BAKER WATER SYSTEMS
BAROID, IDP
CETCO
CPS DISTRIBUTORS, INC
DENVER WINPUMP

FLXX
“Water Tight Concrete Tanks”
FRANKLIN ELECTRIC
JOHNSON SCREENS
PENTAIR
PREFERRED PUMP

THANK YOU
Dave Wilson/James Powers
Chair
Advertising Information

### Website Advertising

**Banner Advertising**

Banner advertisements appear on the right 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:** $300.00

If the advertiser is a CWWCA member, this fee also includes a free upgrade of your member directory listing.

Banner ads should be 150 pixels wide, and 150-300 pixels high. Ads must be submitted in .jpg format.

**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 80 pixels high, by 80-160 pixels wide.

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### DrillStem Advertising

**Advertising Rates for the DrillStem, A Quarterly Publication of CWWCA (published in March, June, September, and December)**

<table>
<thead>
<tr>
<th>Number of Issues</th>
<th>1</th>
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</table>

Classified ads are $1.00 per 3.5 inch line. Help wanted ads will not be published. Seeking employment ads will be published. All rates for non-members are 10% higher.

COPIES MUST BE CAMERA READY OR TRANSMITTED ELECTRONICALLY (.doc, .pdf, or .jpg format). Please be sure to include all borders in the given dimensions. Avoid using colors in the ads since the Drillstem is printed in black and white.

SEND COPIES AND CHECK TO:

CWWCA
1540 S. Holly St. #6
Denver, CO 80222
email: ExecDir@cwwca.org

If you have questions, call the office at 303-759-2294

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### CWWCA Events Calendar

- **October 4**: BOE Meeting
- **Nov. 29-Dec. 2**: NGWA 2011 EXPO
- **January 6-8, 2012**: CWWCA Annual conference
- **February 9-11, 2012**: MSGW - Laughlin, NV

To add dates of your events to the Drillstem Calendar, please call the office: 303-759-2294

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### WEB SITES

- **Colorado Water Well Contractors Association**: [www.cwwca.org](http://www.cwwca.org)
- **American Ground Water Trust**: [www.AGWT.org; privatewell.com](http://www.AGWT.org; privatewell.com)
- **Board of Examiners**: [www.water.state.co.us/boe/](http://www.water.state.co.us/boe/)
- **Colorado Ground Water Association**: [www.coloradogroundwater.org](http://www.coloradogroundwater.org)
- **Mountain States Ground Water Association**: [www.mountainstatesgroundwater.com](http://www.mountainstatesgroundwater.com)
- **National Ground Water Association**: [www.ngwa.org](http://www.ngwa.org)
- **World Wide Drilling Resource**: [www.worldwidedrillingresource.com](http://www.worldwidedrillingresource.com)

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### CWWCA CONTACTS

**Executive Director:**
Sherry Engleberg
CWWCA
1540 S. Holly #6
Denver, CO 80222
Phone: 303-759-2294
Fax: 303-757-0158
E-Mail: ExecDir@cwwca.org

Jack G. Byers, PE
[jack@byersgroupinc.com](mailto:jack@byersgroupinc.com)
I would like to thank all those who participated in the Mid-year conference, a good time was had by all. The weather was great and the classes offered were both diverse and interesting. I would again like to thank all the suppliers for their time and generosity, without their help our conferences would not be possible. The main new item brought up at the Mid-Year was talk of educating engineers and water consultants with respect to the Rules and Regulations concerning well construction and pump setup. The main issue is that we, as water well industry professionals, are sometimes being asked to drill wells and build water systems that are not necessarily up to spec. This is not to say that these shortcomings are not rectified before construction, but it would be nice to bid a project that is designed according to the Rules and Regulations that we have to follow. The summer has flown by again this year, here it is September and we are all in crunch time to get everything finished up before the snow falls. Be safe.

Thank You

Peter R Berglund
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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.

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Historic Breckenridge Walking Tour

The historic tour of Breckenridge was a huge success! We enjoyed hearing about “Where the miners spent their gold.” The tour went to several different places including gambling houses, saloons, a bath house, and laundry. In 1880, Breckenridge was home to two dancehalls, ten hotels, and eighteen saloons.

The Denver Hotel was gambling house/hotel/restaurant. Pug Ryan and his gang robbed the Denver Hotel in 1898 and made off with considerable loot. The robbery resulted in a shoot-out and the death of all the gang members except Pug who escaped--never to return to claim his prize. Ten years later, school children discovered the treasure in a field. All of which was returned to their original owners. The Denver Hotel later burned down and was never rebuilt.

One of the saloons still standing is the Gold Pan Saloon which opened in 1859 and is the oldest continuously operated bar West of the Mississippi. In the 1800’s saloon owners and workers would get their tips by sweeping up the sawdust on the floor every night and sifting through it for gold dust that might have fallen from miners pockets.

Every Saturday the bath house would be open for baths for the miners to clean themselves before visiting houses of ill repute.

The laundry wasn’t a popular place for the miners, but it was used. At the end of the day, the laundry workers would sift through the bottom of their tubs for gold dust.

The winter of 1898-1899 was so harsh that trains were unable to get to Breckenridge for 78 days straight. That same winter, the snow was so deep that residents dug snow tunnels to get across from one side of the street to the other.

CWWCA 2011 Mid-Year Speakers

CWWCA THANKS THE FOLLOWING SPEAKERS FOR THEIR TIME AND INFORMATION.

Louis Day
Accurate Well Water Sourcing
704 E. Harber Circle
Grand Junction, CO 81147

Andrew Ross
Colorado Dept. of Public Health & Environment
4300 Cherry Creek Drive South
Denver, CO 80246

Todd Hunter
Ground Water Pump Systems
4699 Nautilus Ct. South
Boulder, CO 80301

Dave Wilson
Baroid, IDP
9989 W. 84th Place
Arvada, CO 80005

Gina L. Burke
Jehn Water Consultants, Inc
1565 Gilpin Street
Denver, CO 80218

Eugene Wagner
Quality Irrigation
PO Box 420
Yuma, CO 80759

Vicki Wagner
Medical Assistant, Yuma District Hospital
and Clinic.
PO Box 420
Yuma, CO 80759

Nathaniel Reed
Public Relations Officer
Colorado State Patrol

Have a safe and successful Fall!

the DRILLSTEM Fall 2011
Technical Working Group Recap

By Dan Niemela

July 8, 2011

TWG Meeting Recap
Beaver Run Resort
Breckenridge, CO

Next TWG Meeting:
10:00 - 11:00 AM, September 9, 2011
Basement Conference Room A
Chase Bank Building
333 West Hampden Ave., Englewood, CO 80110
(Preceding CWWCA Board Meeting)

State Staff Changes
The TWG welcomed Matt Sares as the new Manager of Division of Water Resources (DWR) Hydrogeological Services. Matt Sares is the former Deputy Director of the Colorado Geological Survey. Matt Sares was appointed following Dave McElhaney’s retirement. Ralf Topper, formerly Senior Hydrogeologist of the Colorado Geological Survey, has been appointed DWR Senior Hydrogeologist. Nolan Lloyd, DWR Chief Well Inspector, will be the new DWR representative on the Water Well Board of Examiners (BOE).

BOE Vacancy
Jeff Canfield’s Governor appointed experienced contractor representative term ended June 30, 2011. Peter Berglund has applied for this position. The BOE has targeted filling the position by October 4th.

Cistern Installation on Well Source by Unlicensed Contractors
Fred Baros, chair of the CWWCA Cistern Taskforce Committee was not present. The CWWCA plans to draft a letter to the BOE regarding installation of cisterns by unlicensed contractors. The letter will be focused on educational initiatives to enforce existing rules. It is unclear whether the Water Well Construction Rules requirement for licensed contractor installation applies to large, municipal storage tanks that are connected to wells. The BOE will research this topic and report at the October 4th BOE meeting.

DWR Budget
The DWR budget is better than expected. There are no anticipated reductions to the current well inspector program, however there are only two well inspectors on staff. The number of well permit applications is up from last year, after adjusting for “produced water” permits. Well permits applications are largely for east slope locations.

DNR Update
There have been no official changes with the Division of Natural Resources. The Colorado Geological Survey is funded through June 2012, but may not be funded past that date. The Colorado Geological Survey is in discussions to integrate into a university geology department.

NGWA Well Construction Standards
Draft NGWA standards are out for public review. August 1st is the deadline for comments. The BOE has received a copy of the proposed standards. NGWA standards development has followed an ANSI process.

CWWCA Apprenticeship Program
Nolan Lloyd will look for the BOE letter in support of the apprenticeship program.

Hydraulic Fracturing
Courtney Hemenway is scheduled to present regarding hydraulic fracturing in Denver Basin aquifers at the October 4th BOE meeting.

Design Engineers
Scott Orr (Hydroresources) presented challenges that licensed contractors have faced when working with design engineers. These challenges are largely based on design engineer specifications that are not in accordance with the Water Well Construction Rules. Typical examples include lack of pressure relief valves, well ventilation or flow meters in engineered design. The liability for these design errors rests on the contractor, since the construction is completed under their license. In addition, the owner runs the risk of having their system shut down by the State if it is not constructed in accordance with the Water Well Construction Rules.

The follow approaches were discussed to address this issue: (1) licensing of design engineers for water well design, (2) CWWCA certification program and (3) education. The CWWCA was encouraged to hold a class regarding Water Well Construction Rules for design engineers with Professional Engineer Continuing Education credit available at the CWWCA January Annual Conference.

Future Topics
BOE Vacancy (contractor)
Cistern Installation
DWR Budget Update
DNR Update
NGWA well Construction Standards Update
Apprenticeship
CWWCA/CGWA Annual Conference
Design Engineers

Respectfully submitted by Daniel Niemela.
The hustle and bustle of life and work constantly keep us on the go. To often the mentality of rush-rush-rush results in poor decision making. When poor decision making strikes while driving, the consequences could be deadly.

Statistics gathered by the National Highway Traffic Safety Administration show that more than 20 percent of injury crashes involve reports of distracted driving. In 2009, more than 5,400 people were killed in crashes involving distracted drivers and another 448,000 were injured. Cell phone use accounted for 19 percent of those that were killed in distracted driving related accidents.

Using better judgment can help prevent distracted driving related crashes. Here are some tips to being safe on the road.

First, slow down. Speeding accounts for at least 50 percent of deaths on the road. Why are you in such a rush? Did you know that if you traveled 24 miles at 65 mph it would take about 22 minutes? What if you slowed down? Traveling 24 miles at a speed of 55 mph would get you there in 26 minutes. Is 4 minutes worth your life or the life of someone else?

Avoid distractions by keeping your focus on the task at hand, driving! There are 3 types of distractions: Visual or taking your eyes off of the road, Manual or taking your hands of the wheel, and Cognitive or taking your mind off of driving. Dialing the phone, talking on the phone, texting, reading, or lighting a cigarette involves all three distractions listed above.

Consider this: At 75 mph you travel about 110 feet per second. On average, it takes 3.71 seconds to dial a phone or send a 10 digit text message. If you are distracted for 3.71 seconds while driving 75 mph you would need 550 feet to react. The white lines on the highway are 32 feet apart. If there are only two or three white lines between your vehicle and the vehicle in front of you what do you think will happen if you are distracted for 3.71 seconds? The average stopping distance for a light truck or passenger vehicle is 400 feet. Likely, you will not be able to stop in time.

Third, is alcohol. One person is killed every 45 minutes due to alcohol related accidents, and about 30 percent of those killed are victims. Being cited with a DUI can cost you on average $13,000 and 10 days in jail. It could also cost you your life or the life of an innocent person.

Remember, avoid distractions, scan and anticipate what is ahead, don’t follow too close, and wear your seatbelt.

Got insurance? Give us a call today. We can start working on your policy anytime during the year. We look forward to working with you!
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 who would like to obtain a water well driller license and/or a pump installation license in the state of Colorado. Records will be kept by the CWWCA and available to the applicant to provide proof of experience to the Board of Examiners (BOE) during the license application process.

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

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

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

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

A driller/pump installer apprentice’s registration may be revoked for engaging in prohibited activities.

(e) Registration forms shall include:

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

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

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

(a) A registered driller/pump installer apprentice shall:

represent his supervising driller/pump installer during operations at the well site:

driller/pump installer apprentice shall co-sign the state reports (in the remarks area under Section 5. GEOLOGIC LOG of the Well Construction and Test Report for well drillers and under Section 9 on the Pump Installation and Test Report for pump installers. If a replacement pump is in-

(Continued on page 9)
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 (Continued on page 10)
pump installer is unavailable, he may be represented by another licensed driller or pump installer who:

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

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

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

CWWCA Attendees at the Supplier Sponsored Social Hour on the Patio of Beaver Run Resort.
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Buck Lively Scholarship Program

The Colorado Water Well Contractors Association (CWWCA) Member 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 scholarship awards.

How to Apply
The applicant must submit a completed application along with all required attachments (download application at http://cwwca.org/OldSite/bin/files/scholap.pdf) to the CWWCA office or to the Scholarship Committee before March 31st. Incomplete applications will disqualify an applicant.

How Applicants are Selected
Scholarship Selections will be based on the following:

1. Scholarship application completeness. Incomplete applications and missing attachments will invalidate an application. Corrections and additions may be submitted up to the submittal deadline.
2. Applicants who have submitted Progress Reports after being awarded a scholarship in previous years will be given preferential scoring.
3. Written recommendations from non-family members. Recommendations should be current, having been written within the last year before application.
4. Academic Record. An Official Transcript must be included for the application to be considered. Unofficial transcripts will not be accepted and may be grounds for disqualification.
5. Educational and Career Goals Statement. 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

PUMPS & MORE L.L.C.
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Destination Imagination Winner

CHARLIE DAY, DESTINATION IMAGINATION WINNER!

Charlie Day, 10-year old son of CWWCA’s Secretary/Treasurer, Travis Day, gave the membership a presentation of his group’s winning entry. (Destination Imagination former name “Oddesy of the Mind”) CWWCA contributed a special scholarship award to sponsor the Meeker Elementary Destination Imagination project.

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www.2mco.com
2011 CWWCA MEMBERSHIP APPLICATION

Last Name ___________________________ First Name ___________________________ Initial ______

Company Name ______________________

Address ______________________________

City ___________________________ State __________ Zip Code __________

Telephone ___________________________ Fax __________________________

Other Phone Contact __________________________

e-mail address __________________________

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

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

********** Please circle yes or no, otherwise we will assume that your answer is NO **********

Please check the appropriate membership category

1. Drilling Contractor (owner or manager of a well drilling business) $175.00

2. Pump Installation Contractor (owner or manager of a pump installation business) $175.00

3. Drilling and Pump Installation Contractor (owner or manager of both businesses) $175.00

4. Associate (any person or firm engaged in the manufacturing or selling of equipment services for the water well industry) $175.00

5. Technical (an hydrologist, geologist or engineer involved in teaching, research, consulting or government services concerned with the ground water industry) $40.00

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 members—$20.00 each employee) Please list name and address of each employee $20.00

9. Student $20.00

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

************************************************** Upgrade Website Member List $50.00*********** $___

TOTAL $___

Method of Payment

Check # ___________________________ Amount ___________________________

Credit Card ________ VISA ________ MASTER CARD ________ DISCOVER

Credit Card # ___________________________ Expiration Date ___________________________

Name on Credit Card ___________________________

Please return your remittance and completed Membership Form to CWWCA

1540 S. Holly St. #6, Denver, CO 80222

Phone: 303.759.2294 Fax: 303.757.0158
SEMCO, INC.
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Lamar, CO 81052
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S110H Hydrorench 1-10”
1-2”, 2 1/2-4J&K Kwik Klamp
CWWCA Board and Committees

2011 Board of Directors

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>District</th>
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<tbody>
<tr>
<td>Peter R. Berglund</td>
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<td>District 3</td>
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<tr>
<td>President</td>
<td>Arrow Drilling Co.</td>
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<td></td>
<td>2127 Elderberry Rd.</td>
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<td>Golden, CO 80401</td>
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<td></td>
<td>Phone: 303.421.8766</td>
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<td></td>
<td>e-mail: <a href="mailto:peterberg79@juno.com">peterberg79@juno.com</a></td>
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<tr>
<td>Eugene Wagener</td>
<td></td>
<td>District 6</td>
</tr>
<tr>
<td>Vice-President</td>
<td>Quality Irrigation</td>
<td></td>
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