

The **Source**

Fall 2012

A Publication of the Ontario Ground Water Association

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The Source

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Scott Burroughs, 2nd Vice-President
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PRESIDENT'S REPORT FALL 2012

Well here we are going into mid fall already, time to start winterizing pumps, checking the treads on the tires, making sure any of the estimates that are now going out include delays for below freezing temperatures andpreparing for our first fall Regional meeting?!? What the heck is with that?? This year we chose to have the Walkerton Regional in the fall rather than the middle of February because of a couple of reasons: Firstly, two years ago I had to have Darren Juneau shovel the snow away from my door at the motel so I could get out. The snowstorm resulted in only a fraction of people being able make the trek and secondly, having it in the fall enables some of our snow birds to attend.

With Craig Stainton taking on the position of Executive Director, coupled with Anne Gammage and Kathleen Boose to tie everything together, all of us on the board have been kept extremely busy going to meetings, symposiums and teleconferences relating to geothermal or Regulatory issues, organizing the convention, dealing with home owner/driller questions or complaints and so on. I will let Craig fill you in on the details later in the magazine. Deciding to have one of our regionals in the fall has also resulted in the board having to have all of our ducks in order a couple of months ahead of usual.

Recently I had the pleasure of receiving a call from one of our former members (due to not paying his membership). After listening to him for as long as I could stand discussing racial issues and being told how to run my operation I bid him adieu and sat at my desk for a few minutes wondering how anyone with his personality could ever survive in business. I wish all my competition was like him, guys like that make it an easy sell for me. With the exception of you and your company, he is the best advertising any of us could ever wish for.

**“The only real way to differentiate yourself
from the competition is through service”**

Never could a more true statement be made when dealing in a free marketplace. Anyone can drill a hole with a drill, dig a trench with a backhoe, sell a pump or deliver drilling supplies. It is the respect, professionalism and experience that you provide while providing that service that will set you apart from your competition. Price will always be an important factor in any business but when the prices are close to each other the company with the better service will always win out. My experience has taught me that price is more often far down the line, below service, equipment, personnel, and safety statistics.

We have all experienced great service and not-so-great service in our day to day lives. Whether it is at the local grocery store, restaurant, drilling supply company etc.. You remember the exceptional ones and definitely remember, and try to avoid, the ones that made you feel frustrated with yourself for even dealing with them in the first place. So why would your customers be any different?

Think of the last customer that you dealt with. Did you make them feel that they were valued? Will they be likely to call you the next time they require a service that you offer? Did

[continued...]

PRESIDENT'S REPORT FALL 2012 (continued)

you stand apart from what your competition could have supplied? It is easy to say that in an economy like we have been experiencing the last few years, "every customer is important". The fact is, no matter what the economy, your customer is always important. Excellent service and respect is the least expensive product you can give a customer but the most valued.

Here are 5 easy things you can do to up your level of service. How do you rate?

- Make your customer feel valued when they call. Thank them for calling you.
- Don't make your customer feel stupid. A few extra sentences in your response to their question may go a long way in educating them and showing them respect.
- Let them know that their time is valuable too. Work with them to the best of your ability to set mutually agreeable meeting times etc.. Give them realistic delivery times if equipment has to be ordered and give them solutions to their problems so they feel that they have some degree of understanding of their options.
- Wrap up any discussion by asking them "is there anything else I can help you with?" "Do you understand everything we discussed?" This will enable your customer to return to any topic he/she is unsure about without feeling pressured to let you go.
- At the end of your discussion or repair, thank them for choosing your company and remind them to call you anytime if they need anything else.

I know it is not always an easy thing to do, especially at the end of those 14 hour days, but you must do your best to ensure continued success for your company. Excellent customer service is the best and least expensive advertising you can have.

I wish everyone a great and prosperous fall and look forward to seeing some of you at the November Regional in Walkerton, no shovels required!

Dave Gunn

OGWA President

DISCUSSION FORUM

We Need Your Input

Large Construction projects, wind turbines and Groundwater Impacts - Tell us your experience. The OGWA has received reports regarding wind turbine construction and how this construction may be impacting groundwater quality. Many complaints have come through the office from people whose water clarity has deteriorated immediately following the installation of pylons used in wind turbine construction. The OGWA office (executivedirector@ogwa.ca, ogwa@ogwa.ca) would like to hear from you. Let us know your experience. We will be doing some further research and reporting back to you on what we hear from you and the experts in a later edition of The Source.

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is vital in the field, and because not everyone can make it to the factory or attend a trade show, Franklin Electric now offers the Mobile Training Facility (MTF). A rolling showcase featuring drives and constant pressure, the MTF provides hands-on experience at local venues. Get industry-leading information and real-life product demonstrations anywhere you need them.

Watch for FranklinTECH coming to Bolton this November. Find more info and the full schedule at WWW.FRANKLIN-ELECTRIC.COM/FRANKLINTECH

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Franklin Electric

SCAM REPORT

The office has been alerted by Matt Wilson (J. B. Wilson & Son Well Drilling Ltd.) to an apparent scam being perpetrated against OGWA members. In this scam members are contacted and told that their listing is about to expire and must be renewed. Please be warned and understand that no member renewals of any sort regarding the Ontario Ground Water Association and our members will ever take place without either appropriate documentation from the Association office (an invoice) and/or direct contact by telephone from Anne Gammage, Kathleen Boose or Craig Stainton, i.e. staff. You may occasionally receive a phone call from a director regarding your opinion or some other business but they will identify themselves and the reason for their call. Please do not fall victim to any scams.



EXECUTIVE DIRECTOR REPORT FALL 2012



So here we are, the weather is cooling and the leaves are changing colour. I guess this is it; winter is on its way. Speaking of the leaves changing colour, we visited Deerhurst a few weeks back to check out the digs in preparation for next April's convention. Leaving home the trees were green but we arrived in Huntsville to a spectacular show of colour. One must travel north in late September to really grasp how important those first cold nights and frost are to the tree changing process. I know we will see Deerhurst in the spring but I am sure the scenery will be just as spectacular. Plan ahead folks, it is a premier setting, a premier resort and the planning committee is attempting to do things a little differently this year. A change is as good as a rest they say so get ready for "Drillalooza" you won't be disappointed.

Although one normally associates the summer with holidays and lying around, this proved a pretty busy season around the OGWA. Now before you think I am making out I had no summer I have to confess we did make it to the cottage more often than not. The boat did go out. I was in it and fish were caught. No complaints from me. Thanks to our electronic age the OGWA could come along and I discovered one of my favourite places to work is on the deck looking out across the water feeling the breeze off the bay. The problem is that setting can't be permanent and certainly during the time Anne was on her well deserved holiday I didn't stray far from my home office or 48 Front St. East. Kathleen and I managed but I will tell you all here and now we sure missed Anne and were certainly glad when she was back. The daily flow through the office is amazing and taking care of my share, that which is my responsibility or addressed to me, is quite enough thank you very much.

On the geothermal front we have had time to deal with Reg. 98/12 and those first to apply for their Environmental Certificate of Approval have completed the process and should be at work. The MOE has announced there will be active inspections to ensure these folks are complying. We hope to have some input from the MOE on geothermal inside this issue, do look for it.

Since the convention, one of the main issues for me has been the pursuit of universal inspection and enforcement across the province per Mr. Ron Hopper's motion at the Annual General Meeting. To that end, your President and I have met with ministry officials and have begun the process of navigating to that end. Inspection and Enforcement responsibilities within the MOE are currently in a state of change and we felt warmly received as our timing seemed right. We feel we have the opportunity for input in this process and the avenues of communication are open for our ongoing discussions. Funding, or frankly the lack there of, are consistent hurdles within the government and our ideas to raise the funds for inspection and enforcement were met with interest, the dialogue will continue.

Another round of Provincial Policy Statement Review meetings are making their way around the Province. The Provincial Policy Statement is the guideline of policies that the various building and planning departments in the municipalities in Ontario work from when they are making decisions regarding development. These are the second set of meetings, the first having happened in 2010. As I represented the OGWA at the first set I had some background and was glad to see that some of what has been spoken to has made it into print. There still is no reference to a "private well" but we have them talking about "individual on-site water services"

now if we can draw a line to aquifers and protection ... dumps and pits. This is another dialogue that will continue.

Unfortunately I have nothing new to report on the various complaints I have made to the MOE on your behalf. When news is available you will be the first to know.

Our first fall Regional Meeting in Walkerton is on track for November 21st. Members, remember to get yourselves registered as soon as possible to avoid being disappointed. Anne will be doing an email notification soon. Also watch for the other Regional Meetings coming in January (Ingersoll & Lindsay) and March (Bradford, Perth & North Bay/Thunder Bay). Again, Anne will keep you apprised. November 28th I have called a meeting of the Manufacturers and Suppliers Division where we will plan events and advertising for over the coming year. As you know these folks are very important parts of our organization. I would ask you all to consider first members of our Manufacturers and Suppliers Division when ordering supplies and equipment.

Lastly a reminder, don't forget to book off April 11th to 13th for "Drillalooza 2013" - the OGWA's 61st Convention and Trade Show in beautiful Huntsville at the famous Deerhurst Resort. Plans are well underway and the emphasis is on changing things up especially with "A Not So Silent Auction!" which I am personally looking forward to. It's going to be a great time, a chance to learn, catch up and socialize.

Have a great fall.

K.C. Craig Stainton
Executive Director



DRILLAPALOOZA! April 11 - 13, 2013

Deerhurst Resort, Huntsville, Ontario

The OGWA Convention Committee has some 'Fun-tastic' Plans!

Come for the Convention &
Trade Show Events...
...take home great memories.

- ◆ Thursday Evening Trade Show Networking Event:
“Beer, Wings, & Other Things!”
- ◆ Friday Trade Show & Division Meetings
- ◆ Monte Carlo Night & Dinner Friday Evening
- ◆ Technical Sessions on Saturday
- ◆ “Puttin’ on the Ritz” at the President’s Banquet
- ◆ “Not So Silent Auction”! (You have to see this!)

**Your Item Donations Will Make
the Auction Fun & Successful!**



Child Care
Available
for
Evening
Events.



Check the OGWA website, your mail & email for updates &
registration details! 519-245-7194 www.ogwa.ca

DRILLAPALOOZA

THE OGWA 2013 CONVENTION SCHEDULE · DEERHURST RESORT, HUNTSVILLE

SCHEDULE

THURSDAY - APRIL 11TH

9:00 am Registration Desk: Beside Front Main Lobby
11:00 am – 3:00 pm Trade Show Set-up: Waterhouse Ballroom
6:00 pm – 9:00 pm Trade Show Opening & Event - Beer! Wings! & Other Things!
9:00 pm Hospitality Suite on Site

FRIDAY, APRIL 12TH

7:30 am Registration Desk: Beside Front Main Lobby
8:00 am – 9:00 am Manufacturers & Suppliers Division Meeting: Tom Thomson Room
9:30 am – 2:30 pm Trade Show: Waterhouse Ballroom
Time TBA Companion Program (To be announced)
1:00 pm – 2:00 pm Scientists & Engineers Division Meeting: Hospitality Suite
3:00 pm – 4:00 pm Pump Installers Division Meeting: Hospitality Suite
3:00 pm – 4:00 pm Drillers & Enviro/Geotechnical Drillers Div. Meeting: Tom Thomson Room
4:00 pm – 5:00 pm Annual General Meeting: Tom Thomson Room
6:30 pm – 9:00 pm Monte Carlo Night: Dinner and Event
9:00 pm Hospitality Suite on Site

SATURDAY, APRIL 13TH

9:00 am – 4:30 pm Training & Technical Programs + Working Lunch: Tom Thomson Room
Time TBA Companion Program (To be announced)
6:00 pm – 9:00 pm President's Dinner & Awards
Theme: "Puttin' on the Ritz"
"Not So Silent" Auction! Time for ~ Join in the fun!
9:00 pm Hospitality Suite on Site

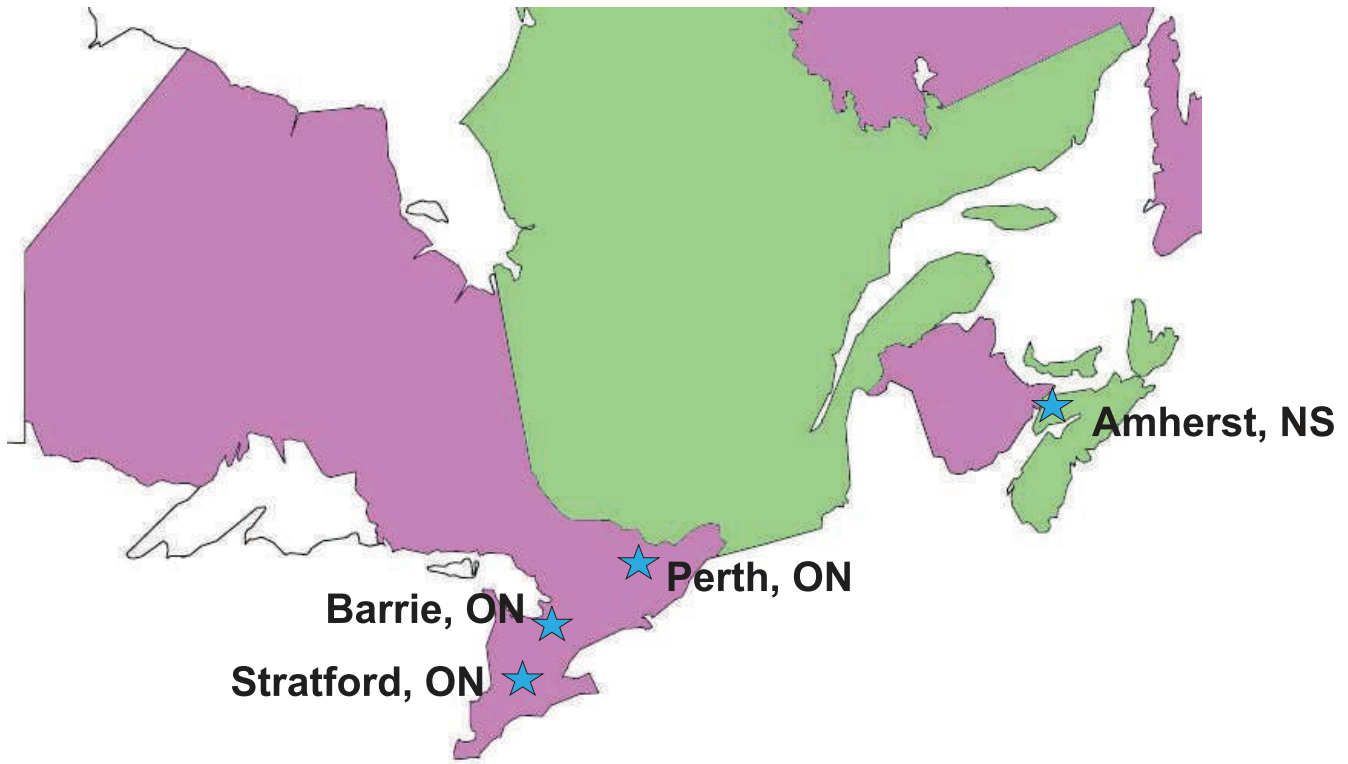
SUNDAY, APRIL 14TH

Check Out

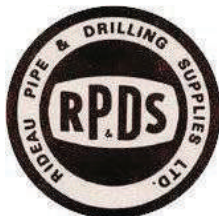


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Ontario's New Rules for Geothermal Drilling

Ontario Regulation 98/12, which took effect on May 18, 2012, regulates vertical closed loop drilling for geothermal energy systems.

When installed in a safe manner, geothermal systems can provide an excellent source of heating and cooling for a variety of uses including residential, commercial, agricultural and industrial applications.

The Ministry of the Environment is protecting public safety and the environment by requiring geothermal system installers to:

- Obtain an Environmental Compliance Approval for vertical closed loop geothermal systems
- Submit a work plan prepared by a licensed engineering practitioner or a

professional geoscientist before drilling; and

- Develop an emergency plan before drilling.

The work plan must include measures to prevent an adverse effect if hazardous gas is encountered while constructing, altering, extending or replacing the system.

The ministry is also requiring installers to notify the landowner, occupant of the building, municipality, fire department and the ministry's Spills Action Centre if they encounter hazardous natural gas during installation of a closed loop vertical geothermal system.

Two stakeholder technical briefing sessions were held in June 2012 to provide the industry with an overview of Regulation 98/12, the approvals process, and to address any questions or concerns about the new requirements.

The ministry has issued a number of multi-site Environmental Compliance Approvals. Multi-site approvals allow a geothermal company to install vertical closed loop geothermal systems at various locations throughout the province.

The Environmental Compliance Approval application form is available on the Ministry of the Environment website, along with instructions for submitting an application and some frequently asked questions for contractors, installers and homeowners.

Visit http://www.ene.gov.on.ca/environment/en/subject/geothermal_energy/index.htm
or call the Environmental Approvals Access and Service Branch at 416-314-8001 or 1-800-461-6290 for further information

Submitted from the Ministry of the Environment

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The advertisement features a man in a black jacket and khaki pants kneeling in a wooded area, surrounded by yellow Heron Instruments 'dipper-T' groundwater monitoring equipment. A large yellow 'dipper-T' unit is prominently displayed in the foreground. In the background, another man is kneeling and using a tablet device. The bottom of the advertisement includes a collage of smaller images showing various monitoring equipment and a man working with a wellhead. The contact information for Heron Instruments Inc. is provided at the bottom.

REVISIONS TO 2012-2013 MEMBERSHIP DIRECTORY

NEW MEMBERS

Pump Installers

Page 35 2144174 Ontario Inc. (Ven Tech Plumbing & Heating)
Riley Venne
74 Theriault Blvd, Timmins, ON P4N 5B5
Phone: (705) 268-0111 Cell: (705) 262-0383
Fax: (705) 268-3711 Email: ventech@ntl.sympatico.ca

Drillers Division & Pump Installers Division

Pages 19 and 38

Marshall Well Drilling (697949 Ontario Inc.)
Amy Marshall
Box 100, 33 Star Lake Rd.
Elmsdale, ON POA 1J0
Phone: (705) 636-7774 Cell: (705) 788-5881 Fax:
(705) 636-7216
Email: h2o@marshallwelldrilling.com

Page 49 Associate Member, Mike MacLnnis, Marshall Well Drilling (697949 Ontario Inc.)



CHANGES TO YOUR CURRENT DIRECTORY

Drillers

Page 20 **REV.** Robert Dennis Well Drilling & Pumps
Change email to: sales@robertdenniswelldrilling.ca
Page 21 Tom's Well Drilling Inc. **** Remove from Directory**

Environmental/Geotechnical Drillers

Page 24 Itech Precision Drilling
Change company and address info
Landshark Drilling Inc. (Jim Hall)
60 Peavinery Road, Burford, ON N0E 1A0
Toll Free: 1-855-586-3545 / Fax: 519-449-1114
Cell: 905-979-1611 jimh@landsharkdrilling.ca
www.landsharkdrilling.ca

M&S

Page 28 Can-Mech Agencies Ltd.
Remove Doug Parsons – Replace with Cliff Hobbs

Page 30 Pentair Water
Add: Office: 705-715-3689 Fax: 866-386-5198

Page 32 **Add:** Zoeller Canada Inc. Flint & Walling /Zoeller Canada
Milt Tillich - PO Box 74, Shakespeare, ON N0B 2P0
Phone: 519-949-0662 Fax: 519-625-8816
www.zoeller.com / www.flintandwalling.com

Pump Installers

Page 37 Inglewood Pumps Enterprises Inc.
**** Remove from Directory**

Page 38 London Pump Supply
Add website: www.londonpumpsupply.ca

Licensed Technicians

Page 57 International Water Supply Ltd.
Remove Scott Thompson (misprint – not an employee)

Page 57 Itech Precision Drilling Inc.
Change name to: Landshark Drilling Inc.

Page 62 W.R.C. Purifying Ltd. **Remove Darcy Ryksen**



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easy to install, features built-in pump and motor protection and has multiple pressure settings for varying comfort. Available for single- and three-phase applications.



Find out more at
Xylem.com/brands/gouldswatertechnology

Goulds Water Technology is a brand of Xylem, whose 12,000 employees are dedicated to addressing the most complex issues in the global water market.



Pentair

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3 MODELS MEET ALL YOUR NEEDS

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- 2-Wire, 3-Wire & 3-Phase in same unit*
- 3-Phase Output (60 Hz/80 Hz)**

PUMP AND MOTOR LAST LONGER

“Soft Start/Coast to Stop”
minimizes mechanical stress.

Constant pressure eliminates
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ADVANCED CONTROL SYSTEM

Needed for installation, system
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Easy touchpad operation.

GROUND DETECTION

Detects and displays when there
is a grounding problem.

Shuts down system until problem
is corrected.



* 5 HP unit is only 3-phase output. 60 Hz operation is recommended as the industry standard. Intermittent 80 Hz operation is an acceptable option.

** Ongoing 80 Hz operation may reduce the life of the pump and motor.

Chief Drinking Water Inspector John Stager Retires

Ontario's long time Chief Drinking Water Inspector planned to work his last day with the MOE on Friday, September 21.

John Stager's retirement was announced sometime last month via an internal MOE communication, but the notification was not made generally public. It came as a surprise to the CWQA that John announced his retirement.

[HISTORY]

Stager was appointed as Ontario's Chief Drinking Water Inspector on December 15, 2008 under Ontario's new Safe Drinking Water Act.

Before this, he served the MOE in environmental monitoring, reporting, compliance and enforcement, and in a series of transformation and business improvement initiatives.

What brought John to the limelight of the water industry was the Walkerton incident.

During 2000, Stager represented the Ontario government in Walkerton, providing support to individuals, families and businesses following the E. coli outbreak in the town.

Subsequent to the Walkerton incident, from 2004 to 2008, Stager headed up a cross-government compliance modernization initiative involving 13 ministries. In this role, he led a series of initiatives to improve levels of cooperation between critical ministries and provide innovative compliance assistance tools to our regulatory community.

As John retires, another known face of the water industry, Paul Nieweglowksi, of the MOE Drinking Water Management Division, has been announced as Ontario's next Chief Drinking Water Inspector.

Ontario's SDWA was born out of the Walkerton tragedy and the resulting Inquiry presided over by Justice Dennis O'Connor. Under the SDWA, owners and operators of drinking water systems are now responsible for ensuring that their drinking water systems:

- Provide water that meets all prescribed drinking water quality standards,
- Operate in accordance with the Act and its regulations, and are kept in a fit state of repair,
- Are appropriately staffed and supervised by qualified persons,
- comply with all sampling, testing and monitoring requirements, and
- meet all regulatory reporting requirements.

Currently, most all of the SDWA is in full force. On December 31, 2012, Section 19 is scheduled to come into effect. The section imposes a higher standard of care for municipal drinking water systems to include every person who, on behalf of the municipality, oversees the accredited operating authority of the system or exercises decision-making authority over the system.

That standard of care extends to Ontario municipal councillors and mayors (i.e. responsible persons).

Every person governed under that standard of reasonable care, who fails to carry out their duty in a prudent manner, can be found guilty of an offence.

A document put out by the Province of Ontario this year, called Taking Care of Your Drinking Water: A Guide for Members of Municipal Councils, is currently being circulated throughout Ontario municipalities in an attempt to ensure they are fully informed and ready for this Section 19 proclamation.

From personal experience, John Stager is one of the original shepherds of the Safe Drinking Water Act and of ensuring clean water for all Ontarians. His experiences at Walkerton shone through here and have inoculated all the staff at the MOE.

We are in good hands with long time veteran, Paul Nieweglowksi. He is a veteran of the ministry and initiatives that have kept Ontarians drinking water safe for the last 6 years as the head of the Safe Drinking Water branch.

Paul's doors have always been open to CWQA and its members and we now have to support him and his teams as we all strive to deliver clean and safe drinking water to the province.

By itself, Section 19 poses as an opportunity for industry, municipalities and the province to work together to ensure safe and clean drinking water to all Ontarians.



By Kevin Wong,
Executive Director,
CWQA – reprinted from
LinkedIn October 4, 2012




Photo of good water from new pump at Confidence Clinic, Liberia

By Jim Gehrels, P.Geo
Lifewater Volunteer & President

Keeping Wells Pumping

Sustainable Handpump Maintenance

TECHNICAL
SPEAKER
CanWell 2012

You probably woke up this morning, made coffee, brushed your teeth, and took a shower. You expect clean water to flow when you turn on the faucet. It is hard for us to grasp what it's like to live without safe, convenient water. But in most of the world, water is carried from a distant contaminated water source.

Amina, a young mother in Liberia, rushes down the long path to the waterhole, hoping to arrive before animals stir up the mud. With the heavy 5-gallon water jug on her head and her baby on her back, she treks back to her hut – the first of three daily trips. Amina's drinking water is often contaminated with cholera, typhoid, or other diseases.

This is typical in many African villages; 15% of Liberian children will die before age five from drinking unsafe water. For the rural poor in Haiti and Africa, the cost of safe water wells is beyond reach. That jug of safe water might as well cost a million dollars.

Fortunately, with the generous support of CanWell 2012 and other Lifewater.ca donors, Amina's town was one of the 227 communities—80,000 people—that received safe water and improved sanitation

this year! This means improved health and increased educational opportunities for girls who traditionally forego school to haul water and care for sick siblings.

It would be nice if this was the end of this article and everyone lived healthily ever after. But right now, thousands of wells around the world sit idle because handpumps are broken, leaving safe water out of reach.

The very poor in the world are constantly in triage mode: if a child gets deadly running stomach, it means the clinic and costly medicine—which leaves no money to fix the roof, or the bike used to get to market. The well's handpump breaks, and there is no money to repair it. And another child becomes sick, and on it goes. When a pump no longer works, villagers use the nearest working pump, which now must support twice the number of users—until it, too breaks.

Seeking a solution, Lifewater is testing a number of models to keep pumps pumping:

- **GOOD SAMARITAN MODEL:** Non-Governmental Agencies hire workers to repair pumps. In Haiti, Lifewater is running pump repair crews, helping to stop the spread of the post-

earthquake cholera. But without input from the end-users, this is a band-aid approach.

- **INSURANCE MODEL:** The village pays an annual maintenance fee. Last year the Liberian team visited the hundreds of wells Lifewater drilled. There is a clear trend: most pumps are “spoiled” in villages that did not help pay for the well, while most are still working in villages that pay a maintenance fee.
- **MECHANIC MODEL:** After a pump breaks, a service provider charges a flat fee to assess the pump and provide a repair estimate. While this works well for us and our cars here in Canada, it is a logistical nightmare and too costly to be effective in Haiti and Africa.
- **GUIDED PUMP REPAIR MODEL:** Currently being piloted in Haiti, a Pump Repair Technician is trained in each village. The technician can exchange old parts for new at the Lifewater d'Haiti office. If necessary, a Lifewater Trainer will come to the village and talk the local Technician through the repair. By guiding, rather than taking over, responsibility for the repair is transferred to the villagers.



Liberian children watching well being developed



Photo of Haitian Team Training Village Repair Technician

We still have a long way to go and questions to answer, such as determining the true cost to a village of unsafe water - lost productivity, missed school, medicine, funerals—or the level of village contribution required for a true sense of ownership. Does it matter if the contribution is cash or labour? Are there economic incentives that can be offered to encourage effective handpump maintenance? The list of questions is as long as the list of villages desperately waiting for safe drinking water.

The good news is that there are hundreds of villages lining up to give a little money, sweat a lot, and provide materials to give their families safe water. With your support, it can happen. Together, we can drill wells and figure out ways to keep the pumps working for years to come.

We Canadians are abundantly rich in our water-filled world and I feel a social responsibility to help those who lack basic safe water. If you also feel this way, I encourage you to give a little and change a lot. Consider having your family help to sponsor a well in lieu of Christmas gifts. Or instead of your company sending fruit baskets to clients, let them know that a gift in their honour will give children safe drinking water. Please send donations to: Lifewater Canada, 194-307 Euclid Ave, Thunder Bay, ON, P7E 6G6

As our overhead is under 5%, every dollar given at www.lifewater.ca gives a child safe water for a year! For families like Anima's, it's quite a gift.

Wishing you a blessed fall and a very merry Christmas,



**Rare photo of me!
Training Liberian drillers
how to develop wells**

**Liberian Children showing clean
hands at hygiene workshop (below)**



Heron Instrument staffers love making the world a better place. Spenny, Eric and Fernando get ready to ship 5 water level meters to Life Water Canada to help their charitable efforts in Haiti.

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OGWA Regional Training Meetings

7 HOURS OF M.O.E. CEC TRAINING CREDITS

UPCOMING DATES & LOCATIONS:

NOVEMBER 21, 2012 - WALKERTON CLEAN WATER CENTRE

JANUARY 16, 2013 - INGERSOLL DISTRICT MEMORIAL CENTRE

JANUARY 30, 2013 - LINDSAY, FLEMING COLLEGE

MARCH 6, 2013 - BRADFORD, ROYAL CANADIAN LEGION

MARCH 20, 2013 - PERTH, FARRELL HALL

MARCH 27, 2013 - NORTH BAY, CLARION RESORT PINEWOOD PARK

MARCH 27, 2013 - THUNDER BAY, CONTACT NORTH

(Thunder Bay connected to North Bay via videoconference.)



WALKERTON CLEAN WATER CENTRE -
Spring 2012 Regional Training

| | |
|------------------|-----------------------------------------------------------------------------------------------------------|
| 8:30 – 9:00 am | Craig Stainton, OGWA Executive Director – OGWA Initiatives and Update |
| 9:00 – 9:30 am | Stephen Bleizeffer, Lackner McLennan Insurance Ltd. – Insurance Update |
| 9:30 – 10:00am | Holly Archer, Fleming College – Training Update |
| 10:00 – 10:15 am | Break |
| 10:15 – 11:45 am | Michael Zacks, Office of the Employer Advisor - Bill 119: Mandatory Workers' Compensation Coverage |
| 11:45 - Noon | Q&A |
| Noon – 1:00 pm | Lunch |
| 1:00 – 2:20 pm | Ellaline Davies, Safety Works Consulting - Confined Spaces |
| 2:20 – 2:25 pm | Q&A |
| 2:25 – 2:35 pm | Break |
| 2:35 – 3:55 pm | Ellaline Davies, Safety Works Consulting - Fall Arrest |
| 3:55 – 4:00 pm | Q&A |
| 4:00 – 4:30 pm | Kim Yee, Ministry of Environment - Initiatives & Update |

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[tinyurl.com/
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(Accepting Visa/MC/
AmEx/Discover Cards)

OR

Print & Fax/Email
Registration Form
(Visa/MC or Cheque by
mail in advance only)



To contact us:

48 Front Street East
Strathroy, ON N7G 1Y6

Phone: 519-245-7194
Fax: 519-245-7196
E-mail: ogwa@ogwa.ca



Ontario Ground Water Association

OGWA Regional Training Meetings 2013 Registration Form

To receive CEC Certificates, all participants in the OGWA Regional Meetings **MUST pre-register with full payment by the dates indicated below**. Only pre-paid participants will be allowed admittance to the training. *Please contact the OGWA office if you have any questions: 519-245-7194 / ogwa@ogwa.ca*

| | | | |
|--------------------------|--|-----------------------------------|-------------------------------|
| Company: | | Contact: | |
| Mailing Address: | | | |
| Phone: | | Fax: | |
| Email: | | | OFFICE USE: Registration # |
| Participant Name: | | Well Technician Licence #: | T- |
| Participant Name: | | Well Technician Licence #: | T- |
| Participant Name: | | Well Technician Licence #: | T- |
| Participant Name: | | Well Technician Licence #: | T- |
| Participant Name: | | Well Technician Licence #: | T- |

(For additional Participants, please add a page with your Company Name, Participant Names, and Well Technician Licence Numbers if applicable)

Choose Your Regional Meeting Location – **You Must PRE-REGISTER** No Later than Date Listed:

LOCATIONS:

- REGISTER BY: Nov 14** - Walkerton Clean Water Centre, 20 Ontario Rd., Walkerton
- REGISTER BY: Jan 9** - Ingersoll District Memorial Centre, 97 Mutual Street, Ingersoll
- REGISTER BY: Jan 23** - Fleming College, 200 Albert St S., Lindsay
- REGISTER BY: Feb 27** - Royal Canadian Legion, 115 Back Street, Bradford
- REGISTER BY: Mar 13** - Farrell Hall, 186 Gore St. E., Perth
- REGISTER BY: Mar 20** - Clarion Resort Pinewood Park, 201 Pinewood Park Dr, North Bay
- REGISTER BY: Mar 20** - Contact North, Unit 4 - 1139 Alloy Drive, Thunder Bay

CHOOSE MEETING DATE:

- Walkerton: Nov 21**
- Ingersoll: Jan 16**
- Lindsay: Jan 30**
- Bradford: Mar 6**
- Perth: Mar 20**
- North Bay: Mar 27**
- Thunder Bay: Mar 27**

Note: Thunder Bay connected to North Bay via Video Conference

SPECIAL OFFER: JOIN OGWA AS A NEW MEMBER + Register 2 or more participants and the first participant is free!

Registration Fees:

| | | | | |
|---------------------------------------------|---|-------------------------|---|----------|
| _____ Number of Participants (OGWA Members) | X | \$45.00 (HST Included) | = | \$ _____ |
| _____ Number of Participants (All Others) | X | \$180.88 (HST Included) | = | \$ _____ |
| Total Registration Fees: | | | | \$ _____ |

Payment by Cheque: Cheque Enclosed for: \$ _____ (Mail to: OGWA, 48 Front St. E., Strathroy, ON N7G 1Y6)

Payment by Credit Card: Visa / MasterCard / American Express / Discover **MAKE PAYMENTS ONLINE AT: tinyurl.com/OGWA-Regls**

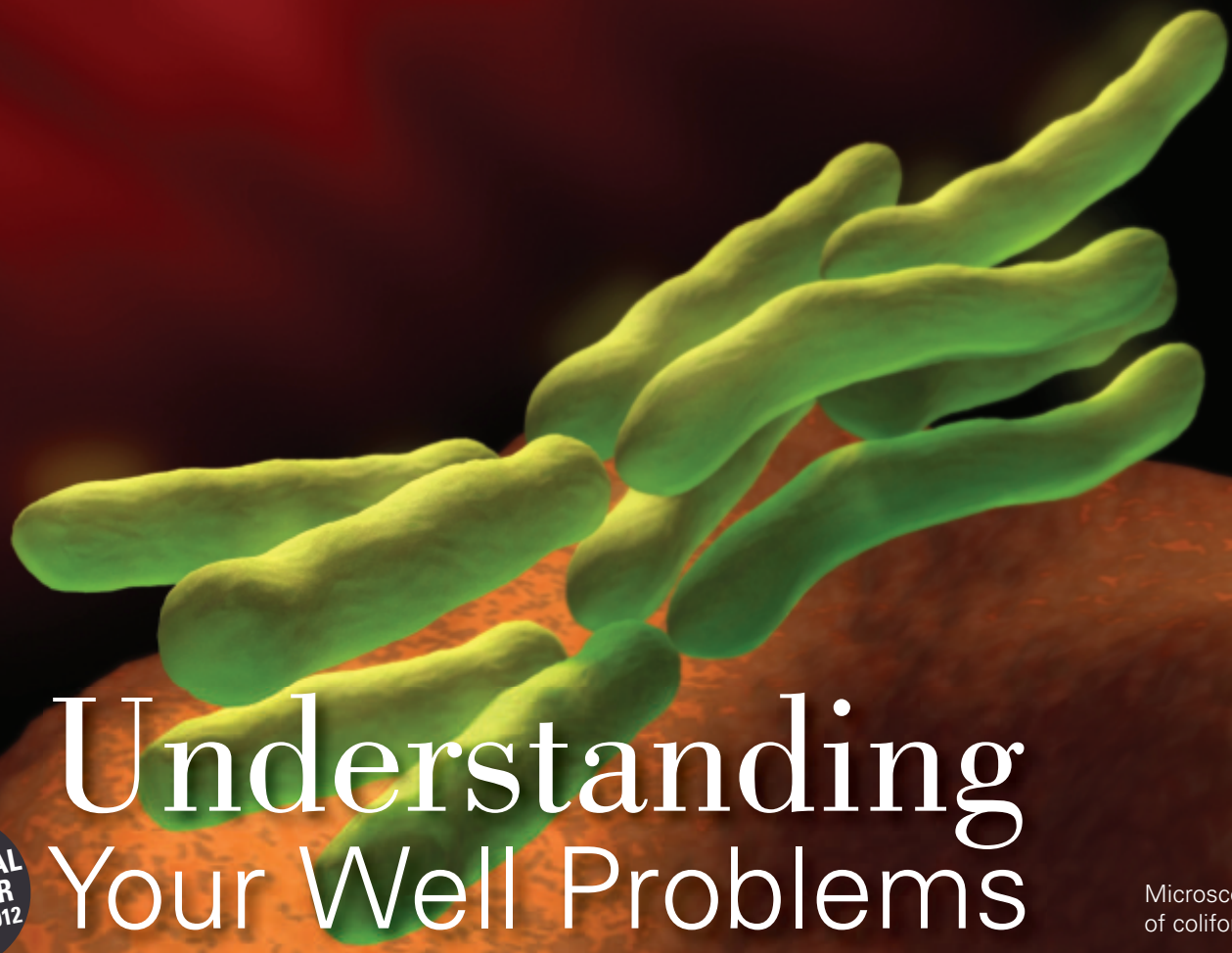
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Microscopic image of coliform bacteria

TECHNICAL
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Understanding Your Well Problems

By David Hanson

This is a first in a series of articles about successfully understanding well problems in the field. These tips are critical for all who work in the field (contractors, engineers, health department personnel, and even home owners) to better understand problems with coliform, E. coli, iron bacteria, odors, corrosion, etc. This first article will attempt to help you understand regular chlorine.

There are two basic types of regular chlorine, 1. Liquid chlorine as sodium hypochlorite and 2. granular/pelleted chlorine as calcium hypochlorite.

LIQUID SODIUM HYPOCHLORITE

- Available as common household bleach at 4-6% available chlorine (Javax) and industrial grade at 10-15% available chlorine
- Sodium based liquid so mixes very easily in water
- Shelf life: bleach loses approximately 20% of effectiveness every month. How old is the product that you buy at the store? If it's more than 4 months old,

it's useless. It still oxidizes or bleaches your clothes. Industrial Grade has better containers but still has a shelf life issue. Most chemical companies understand the age of the product and generally will guarantee the active product.

- Bleach is readily available from local stores
 - do NOT buy the "Splash-less" bleach as issues with some health concerns.
 - do NOT buy the scented bleach as may have issues with health concerns
- and cause a lingering odor.
- the product does off - gas and odors are severely corrosive to tools and side boxes of trucks
 - ships as hazardous material so cannot be shipped standard freight
 - is severely corrosive to pitless units when poured directly in the well

GRANULAR OR PELLETED CHLORINE

- generally available as 65% available chlorine.
- 35% of the chemistry is calcium hypochlorite.
- the general thought is that this does

NOT mix well in cold water. It's not the coldness of the water that is the issue, but the hardness level. Calcium is saturated at approximated 50-60 ppm hardness or 3-4 grains hard. With high hardness water, the calcium is saturated and is difficult to get the chlorine to go into solution. Heating the water expands the water molecule and allows more chlorine to go into solution. Pellets by the way, in high hardness water will fall to the bottom of the well and lay there for years, not dissolved.

- does have a shelf life but not as bad as sodium hypochlorite
- the product does off-gas and odors are severely corrosive to tools and side boxes
 - ships as hazardous material so cannot be shipped standard freight
 - is severely corrosive when poured directly in the well
 - pellets get lodged on the top of the pump which can cause severe corrosion

How pH is relative to your chlorination success

Both of these regular chlorines are alkaline in nature (sodium and calcium). That

Microscopic image of iron bacteria

means both will cause a dramatic rise in pH (shifting the water to a basic pH) when mixed into water. Regular chlorine will break down into two different chemical products. One is hypochlorous gas (HOCl). This is the biocidal form of chlorine and is 100% biocidal at a pH of 5.5-6.0. The other produce is hypochlorite ion (OCl⁻). This form is oxidative which in the field means:

- You can smell chlorine and too much can be dangerous
- Oxidizes minerals in water (ferrous iron) into a solid (ferric iron) so you will see a discoloration in water
- Will cause corrosion in the well. DO NOT POUR STANDARD CHLORINE DIRECTLY INTO THE WELL!

Unfortunately, we too often equate the strong chlorine odor and discoloration in the water to chlorine working and killing bacteria when it's not. The more regular chlorine you use, the less effective it is.

MY TEST RESULTS IN THE OFFICE

Our office water was a pH of 7.5. After mixing 1 tsp of bleach pH was 8.5. You can faintly smell the chlorine and at that pH is approximately 7% biocidal and 93% oxidative. Flush the glass well. Refill with 8 oz of water. This time put in 4 tsp of chlorine. Now pH will be much higher (9.8) and the biocidal percentage will be much lower (less than 2%). Oxidative chemistry will kill bacteria but it will take several days and will it create massive corrosion in the well.

If you have a natural pH greater than 7.0, it is very difficult to obtain a coliform free sample using regular chlorine.

In the US, where I work, the average failure rate varies between 20-35%. I believe much of that is due to the natural pH, the type of well (fractured hard rock vs. glacial till), total column

of water in the well, and placement of chlorine into the well. Just because you drill a well, doesn't automatically mean you will have coliform bacteria. Bad practices and poor chlorination techniques will not allow you to succeed easily when you have an issue.

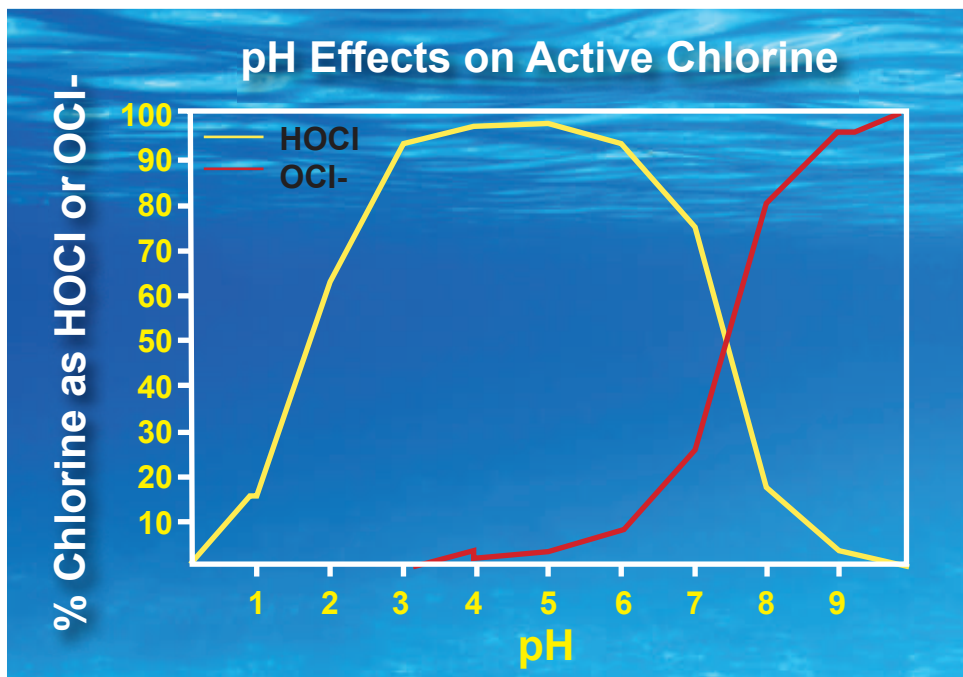
THERE ARE SOLUTIONS

You can control pH with a variety of products like vinegar, and any number of acids or trademark products with acids. DANGER. IF you mix an acid into water and then mix chlorine into that acidic blend, you will produce "mustard gas" which is instantly lethal. If you see a yellow plume coming off the liquid, run! If you breathe this gas, seek immediate medical help. There is a new chlorine on the market that solves all these issues with regular chlorine at a competitive price.

Information is critical to success. There are many things that you can do in the field to be more successful. When you see slimed pumps or plugged buried piping, we too often wipe the slime off and reset or replace the pump. Your billing may be \$2000 for the job. Slimy pumps is an opportunity to talk with your customer about eliminating the problem in the well rather than returning to the job site in a year to repeat this process. When you clean the well, your bill is now, say \$3-4000 (varies dramatically on diameter and depth) but you've solved the problem long term. When you show your customer the plugging in his piping is an opportunity to clean the well and piping. Buried piping that is plugged or even plugging in heat exchange units are both an opportunity to clean the system, right to the faucets in the house, if necessary. Safely cleaning systems if far, FAR cheaper than replacing buried lines. Service work is more profitable than drilling. And you serve a necessary service to your customer as you solved the problem, long term.

Success in business is about being different than your competition, not alike them. Customers have to see the difference to understand why you are more expensive. If you don't show them that difference, you better be the cheapest price to get the business. We already have too many people in this industry that are cheap. We need more that are willing to step up and be different, be better, and be more professional. When your customer tells you, "No wonder you're more expensive", that is a great compliment. You've done your job as a professional.

David Hanson is the president of Design Water Technologies and was a speaker at the CanWell technical sessions. A booklet on called "Understanding Your Well Problems" and is a great field use piece to keep with you as a reference and can be found online under "Literature" on www.designwater.com.



DO A SIMPLE TEST AT HOME

Take an 8 oz glass of water (1 cup). Mix 1 tsp of liquid bleach into the glass. Do NOT use a good spoon as will be corrosive. pH will rise 1-1.2 pH points, if the chlorine is good. Remember that bleach has a horrible shelf life.



“A Place for Bored Wells”

by Craig Stainton

This summer friends of ours have been building a new house south east of Tillsonburg. When it came time for a water supply a drilled well was tried. The test hole was not successful; the overburden was such that a drilled well would not work out. There were many thin layers of water bearing sand separated by clay aquitard layers. It became apparent that a traditional bored well would be the most appropriate water supply. What follows is a pictorial account of the installation of that well by our member company Johnson & Baetz Well Boring Co. Limited. John Baetz was operating the boring machine this day.

“Well Boring Rig”



Equipment set up and ready to work.



Mast set up. Despite how it looks, the proper set back from overhead wires was maintained.



Everything in its place ready for the work at hand.



Raw materials ready and the equipment to move it around.



It's a different story to moving pipe; the cement casing is in place.



A skid of bentonite ensures that Regulation 903 is being followed.



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CANADIAN Winter Drilling

TECHNICAL
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CanWell 2012

The +40 degree Celsius days of summer are behind us as we prepare to dive into the frigid winter months. There are many safety factors to consider which go along with working in sub-zero temperatures, some of which include:

Winter Driving: This is the biggest risk to all of us in the winter months as driving conditions can vary hourly and without notice. Ice and snow covered roads are extremely common, and it takes an extra level of awareness and precaution to get to where you are going safely. Your attention is critical as we're typically driving larger vehicles and support trucks than most, and let's face it... there are some terrible drivers out there who we have to watch out for constantly. Leaving earlier helps to avoid the rush and allows you to take your time when approaching intersections or going down hills. Packing an emergency kit including triangles, road flares, a blanket, food, and a cell phone is necessary, and may be a lifesaver in case of an emergency.

Frost Bite: When the body recognizes freezing conditions it automatically attempts to preserve core temperature by restricting blood flow to areas farthest from the heart. Drillers are especially susceptible to losing dexterity in our hands and feet which can have a huge impact on productivity and our level of comfort. Dressing appropriately for the cold does not always work in many situations and may require additional measures like taking regular breaks in a heated area or around camp fires. Thermal gloves and boots work well, but it is always important to bring spares just in case. Dressing in layers is important with your head covered and face protected from wind burn when working in those open fields.

Equipment Failure: This is the time of year where hydraulic seals shrink, metal becomes brittle, and engines become difficult to start. It is important to inspect all of the welds and cylinders on your drilling equipment to ensure there are no hairline fractures or leaks which could lead to larger failures. It helps not to keep the heat in your shop too high, as the constant temperature differences can lead to premature hydraulic wear. It's recommended to switch over your engine oil and hydraulic fluid to a thinner grade, and perhaps carry a bottle of gas line antifreeze for those really cold days. Be sure to drain your water pumps, and rinse out your lines with enviro-friendly antifreeze. Along with the winter driving information, your tires are also a deciding factor on whether you will make it to site safely. Check your tread, and change them out accordingly.

Drilling Surfaces: When there is snow on the ground (even a dusting), it can be difficult to gauge the terrain you must travel on. Walking ahead with a pole is often helpful, but every situation varies. Utility locates can be very difficult to identify, so perhaps a broom would be useful to brush off the work area. When drilling or driving on ice, be sure to check with local regulatory authorities to make sure that it is safe to proceed. Over the next few months the ground at the back of the drill will become slippery, and things that would typically move will now be frozen into the ground, so be aware of the modifying worksite conditions. It may take longer to complete the hole if you stop to check and improve your site conditions, but it's far better than breaking through ice, tripping over a frozen log, or slipping onto your tailbone.

The moral of this message is to take your time and be prepared. A little bit of extra pre-project planning can go a long way. Check the weather network as well as driving condition reports daily so you can be mentally prepared for the weather and road conditions. Pack spares, and be prepared for emergency situations. With any luck we will have a mild winter, but cold snaps can sneak in there every once in a while unexpectedly. Drilling in the winter is a totally different worksite, and it is important for those seasoned drillers to let the new employees know just how important it is to be ready for it. Winter is a fact of life for Canadians, and many of us actually look forward to it... so depending on which type of Canadian you are the good or bad news is that it'll be back to +40 before we know it.

Our Warmest Wishes,

The Team at Drill-Safe

Submitted by Dan Carrocci,
presenter at CanWell 2012



COMING EVENTS



December 4 -7, 2012

NGWA Groundwater Expo

CGWA Members Register at NGWA Member Rates!
Las Vegas, Nevada, USA

www.ngwa.org

February 5, 6, 7, 2013

Canadian International Farm Show

OGWA Booth – Members Help Welcome!
International Centre, Mississauga, Ontario

www.canadianfarmshow.ca

March 4 - 8, 2013

**43rd Annual BCGWA 2013 Convention,
Tradeshow and Annual General Meeting**

Kamloops Convention Centre
2013 registration will begin in January
www.bcgwa.org

March 11-1, 2013

**Michigan Ground Water Association
85th Annual Convention**

Acme, Michigan

www.michiangroundwater.com

April 10-12, 2013

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April 11 – 13, 2013

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May 28, 2013

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<http://groundwatersummit.org/>



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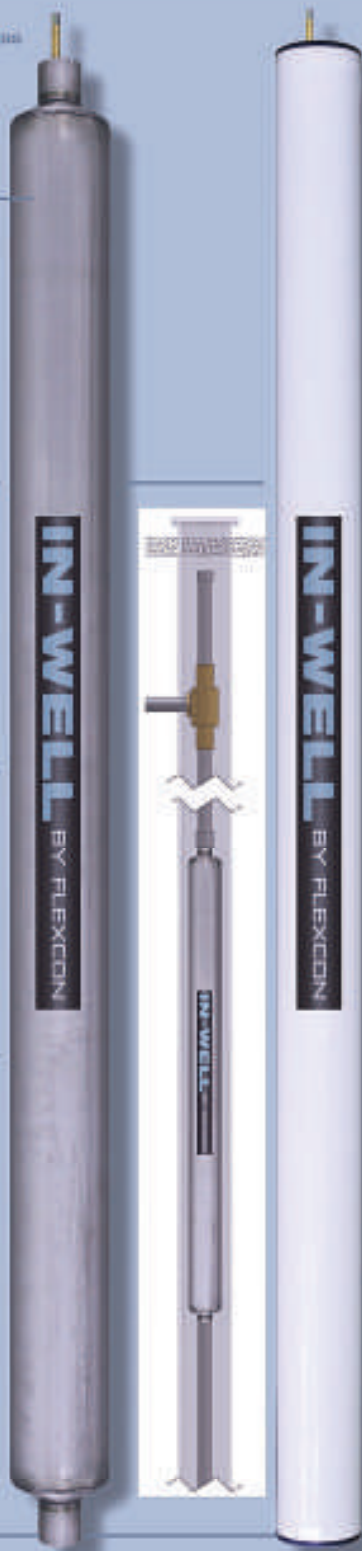
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Our IN-WELL tanks are designed to be used with a variable speed pump or regulating valve constant pressure system. Combined with Flexcon quality, reliability and expertise, they're guaranteed to provide your customers years of trouble free service.

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Your Flexcon Industries Contact: Eric LeMay
E-mail: elemay@flexconind.com
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Fleming College Update

Training for Well Technicians

WELL CONSTRUCTED IN THE NORTH

In 2013 we hope to be visiting Northern Ontario with our 10day course, Well Constructed. We are offering Well Constructed in Sudbury on January 14 to January 25, 2013. This course spans a two week period and is the Director Approved short course in Ontario for Well Technician License acquisition (Classes 1 – 4). Sign up early to ensure a spot, and to avoid course cancellation due to low enrollment.

The 10 Day course will also be offered in Lindsay and Renfrew next year. See below for a complete list of offerings:

Sudbury - Jan 14 – Jan 25, 2013
Renfrew - Feb. 4 – Feb. 15, 2013
Lindsay - Feb. 25 - Mar. 8, 2013

CONTINUING EDUCATION

This year we will offer two in-class, 7-hour Continuing Education courses. Customer Service and Communication for the Well Construction Industry is being offered for the second year in a row.

We will also offer a new course: Geological Classification of Unconsolidated Formations & Borehole Logging. Participants of this course will explore geology and hydrogeology from the technician's perspective with a focus on the unconsolidated formations in Ontario. Participants will then investigate how each of the cutting actions and flushing media change the geological sample generated, in order to consistently identify and log materials on the Well Record, using the 'Guide for Using the Hydrogeologic Classification System for Logging Water Well Boreholes' by Thomas M. Hanna RPG. Participants are asked to bring a sample of cuttings from their region to be analysed in class. This course is pending approval from the Ministry of the Environment.

Our two, 7-hour courses will provide well technicians with the opportunity to acquire 14 hours of in-class training (pending approval of our new course). We have made an effort to offer these courses in conjunction with next year's OGWA Regional Meetings making it convenient for well technicians to attend both.

Our 7-hour courses are being offered in the following dates and locations:

Geological Classification of Unconsolidated Formations & Borehole Logging

Lindsay – January 31, 2013
Ingersoll – February 21, 2013
Perth – March 21, 2013

Customer Service and Communication for the Well Construction Industry

Lindsay – February 1, 2013
Ingersoll – February 22, 2013
Perth – March 22, 2013

Online Training continues to be an option for Well Technicians to acquire continuing education credits. For a list of our online courses please visit our website:

www.welltechtraining.org

To register for any of these courses, call 1-888-269-6929



DUANE PARNHAM DONATION

At last year's OGWA regional meetings, we were excited to share news about a generous \$1 million alumni donation. The historic alumni donation was provided to the college by a mineral engineering technology graduate turned entrepreneur and successful businessman, Duane Parham.

The funds were the largest alumni donation in the college's history and the largest ever by a college alumnus to a community college, and they have now been put into action. The drilling program was able to purchase two blast hole drills and a mobile drill, also to perform significant upgrades to the training centre. In addition, \$200,000 was set aside to establish an endowment fund to provide financial assistance to students at the campus.



Leigh and Duane Parnham stand outside the newly named Parham Training Centre at Fleming's Frost Campus in Lindsay. (ABOVE)

Our new MOBILE B-37 is up and running at Fleming. It was purchased using part of Duane Parnham's generous donation. The drill will be used to teach geotechnical and environmental drilling. We are appreciative of the technical support that MobileDrill has provided for this equipment. (BELOW)

What are the **Benefits** of OGWA Membership for 2013?

Benefits of Ontario Ground Water Association Membership:

- **Industry Advocacy:** At the provincial and municipal level for the betterment of you and all segments of the Ontario ground water industry.
- **Board of Directors:** A demonstrated group of industry professionals regularly addressing all issues to the common benefit of the membership.
- **Executive Director:** Employed at the direction of the board and the membership to fulfill our ongoing mandate and working with the office to respond to inquiries and complaints; providing mediation and education as needed.
- **OGWA Office:** Full time working on your behalf - interacting with the public and members, assisting with inquiries, maintaining critical OGWA data, plus distributing news and information via our publications.
- **Regional Meetings/Conventions/Trade Shows:** Continuing education credits for MOE licensing, industry news and workshops as well as the OGWA convention, bi-annual CGWA convention and the NGWA convention all with advanced notice and a reduction in cost.
- **The Source Magazine and the Annual Membership Directory:** Our in-house magazine, "The Source" published three times per year, is complimentary and provides you with the ability to contribute news and articles, plus advertising is restricted to members. The Membership Directory is the phone book for our industry and is widely circulated and used by all levels of government and industry.
- **Web Site:** The OGWA website promotes the membership to the public. If you are licensed and on the MOE contractor website and an OGWA member on our site, what better credentials can you present to your customers? The website provides resources to Members, updated frequently and with links to government, regulatory, and ground water sites, it is a major resource. Coming soon is a members' only area for access to information and to allow discussion of pertinent news.
- **Water Testing Program:** A joint venture between Well Wise Resource Centre and OGWA to provide lower cost laboratory testing of private well water for the public and contractors wishing to provide the service for their clients. At very low comparative cost and using the OGWA Office as the contact to administer test orders, plus provide a Well Wise report on the results, this is an excellent additional service used by many members.
- **Hotel Discount:** Best-rate hotel discounts through Choice Hotels (Comfort Inn, Comfort Suites, Clarion Resorts, Quality Inn, Econolodge, and Rodeway). See your Membership Card: 2 Ways of Saving – Web or 1-800-424-6423
- **Thrifty Car Rental Services:** Special rates and services such as: no underage driver surcharges for ages 21-25, no additional driver fees for company employees or their spouses, HBC Rewards or Free Rental Days through the Blue Chip Rewards program, unlimited kilometres at most locations, and more.
- **CGWA Membership:** OGWA Members automatically become members of the Canadian Groundwater Association and enjoy these further benefits:
 - Petro-Canada Gas Rebate Program
 - Group Benefits Program – Life, AD&D, Healthcare, Dental, and LTD
 - Accidental Death and Dismemberment – Special Risk Insurance
 - The Canadian Water Well Drillers General Insurance Program. Lackner McLennan Insurance Ltd.
 - CGWA Certification program for Drilling and Pump Technicians

I wish to welcome all our new and renewing members – rest assured that we continually work for you. Your membership ensures the strength of our organization. We request your regular input: a director, a staff member or I are at your service.

Don't forget:

DRILLAPALOOZA – CONVENTION 2013: The OGWA annual Convention and Trade Show to be held at Deerhurst Resort, Huntsville, Ontario, April 11-13. Be sure to attend the best networking event in the industry!

Dave Gunn, OGWA President

BUYER'S GUIDE

Canadian Int'l Farm Show
Canadian Pipe & Pump Supply Ltd
Flexcon Industries
Fleming College
Franklin Electric
Grundfos
Heron Instruments Inc.

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Goulds Water Technology / Xylem
Lackner McLennan Insurance Ltd
M. Beaugard Équipements Inc
Pentair Intellidrive
Pentair Wellmate
The Drilling Depot
The Rideau Group Inc
Wellmaster

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ONTARIO GROUND WATER ASSOCIATION

2013 MEMBERSHIP APPLICATION

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| IMPORTANT: PLEASE COMPLETE ALL BOXES FOR OUR RECORDS → | | | |
| <input type="checkbox"/> NEW MEMBERSHIP | | <input type="checkbox"/> DO NOT list my company on the OGWA website. <small>(Listing = Company Name, Contact Name, Address, City, Province, Postal Code, Phone/Fax Numbers, Web Site, and County. E-mail addresses will not be listed).</small> | |
| <input type="checkbox"/> MEMBERSHIP RENEWAL: Fill in <u>company name</u> & <u>only</u> changes to information (contact name, address, technicians, etc.) | | | |
| <input type="checkbox"/> Corporate Website: Authorization to apply a web link to the OGWA website on our corporate website. | | | |
| Company Name: | | | +MANDATORY: MOE Contractor Licence #: |
| Contact Name: | | | |
| Mailing Address: P.O. Box /No. & Street / R.R. #: | | | Expiry Date: |
| City: | Prov: | Postal Code: | County/District (Ontario Only): |
| Telephone No. | Cell No (Optional): | Fax. No.: | |
| E-mail Address: | | Website URL: | |
| Water Treatment Provider: Yes _____ | Rig/Equipment: _____ | Conventional: Yes _____ | Air: Yes _____ Mud: Yes _____ |
| | Reverse: Yes _____ | Cable Tool: Yes _____ | Other (specify): _____ |

+MANDATORY: MOE CONTRACTOR LICENCE # REQUIRED ABOVE FOR ALL QUALIFIED CONTRACTORS

| <input checked="" type="checkbox"/> | MEMBERSHIP CATEGORY | FEE (HST Included) | TO REMIT |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|
| | Drilling Contractor <i>*Geothermal Yes _____</i> | \$ 405.00 | \$ |
| | Environmental/Geotechnical Drilling Contractor <i>*Geothermal Yes _____</i> | \$ 405.00 | \$ |
| | Pump Installer | \$ 405.00 | \$ |
| | Manufacturer/Supplier | \$ 405.00 | \$ |
| | Ground Water Scientist/Engineer | \$ 405.00 | \$ |
| | Associate Members (see qualifying note on Page 2)** <i>*Geothermal Yes _____</i> Associate Names: | \$ 85.00 | \$ |
| | DONATION FOR SPECIAL OGWA PROJECTS: | \$ | \$ |
| TOTAL MEMBERSHIP & DONATION PAYMENT: | | | \$ |

***Geothermal:** Until licencing requirements apply to geothermal drilling we are unable to create a separate division. This information is for data gathering only.

****ASSOCIATE MEMBERSHIP:** (IMPORTANT - See Page 2 for Definition of Associate per OGWA By-laws)

- The logo of the Ontario Ground Water Association (OGWA) is a registered trademark (TM). Permission for its reproduction is RESTRICTED TO PAID UP MEMBERS ONLY for advertising purposes. Investigation into unauthorized use may result in legal action.
- Our office is located in Strathroy. Please change your accounting records to the address below. Call 519-245-7194 for information.

CHEQUE PAYABLE TO: **Ontario Ground Water Association, 48 Front Street East, Strathroy, ON N7G 1Y6**

OR: Visa / MasterCard: Card #: _____ Expiry: _____

Name on Card: _____

THANK YOU!

Please complete page 2 (OVER) if applicable...





Wellmaster would like to congratulate the Ontario Ground Water Association on 60 years in business. From their early beginnings in Tillsonburg, and in association with Tillsonburg Pipe & Supply (now Wellmaster Pipe & Supply), the Ontario Ground Water Association and Wellmaster has strived to protect and promote Ontario's most precious resource. In 2012, Wellmaster will be celebrating their 25th anniversary as well as celebrating the Ontario Ground Water Association's 60 years in business.

Water Drillers' Group Formed



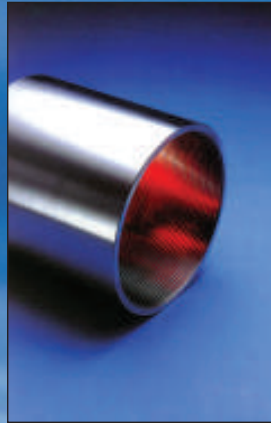
Elected at the inaugural meeting of the Ontario Water Well Association, held Saturday afternoon at the Tillsonburg Pipe and Supply Company plant on Vicinus Road, the above group are the pioneer executive of a drillers' organization in Ontario. They are, left to right: W. L. Fields of Vineland, the president; L. L. Locksbury of London, vice-president; L. W. Kidd of Tillsonburg, secretary-treasurer; and directors P. C. Hammond of Hamlettsville, Elmer Hoover of Ayrmer, C. D. McLean of Ottawa, Frank Johnston of Thornhill, and Dan Featherstone of Colborne. (Photo by Fentley.)



Ontario Water Well Association Inaugural Meeting
Tillsonburg, Ontario
June 1st, 1952



Drive Shoes



Couplings / Collars



Oil & Gas Products



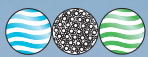
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