

# Pennsylvania



# Driller

Winter 2003

## PGWA President and Executive Director Attend NGWA Leadership Conference

by Jodi L. Snyder, Executive Director

national  
ground water  
awareness week

March 16-23, 2003  
What Did YOU Do to  
Promote Ground  
Water Awareness?

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On March 16, 2003, PGWA President Bill Reichart, Executive Director Jodi Snyder, and Executive Secretaries and Presidents of NGWA Affiliate States across the country, attended a very valuable training seminar – NGWA's 3rd Bi-Annual Leadership Conference in Washington, D.C.

NGWA Executive Director Kevin McCray and President Ernest Pender welcomed guests and introductions of leaders around the country were made. Kevin McCray then led the group in an overview of NGWA's Affiliate State Program. It was very interesting to discover that, while PGWA's Affiliate State Dues are \$825, we have the potential to receive a 489% return on our investment. Some of the benefits in which we take advantage are: the NGWA Leadership Conference that includes national experts in accounting, law, marketing, etc.; access to nationally-known speakers, such as McIlhiney Lecturers; printing services; an Associate Membership to NGWA; to name a few.

The next presentation was given by Leroy Goodson, Chair, NGWA Affiliate States Subcommittee. Leroy addressed issues that arise in his state, Texas, as well as other systems that work well for Texas and other states.

Paul Humes, CPA, NGWA Chief Financial Officer, gave an important overview of state association financial management. He reviewed checks and balances that are important for associations to follow when handling finances. I was happy to know that PGWA already has these checks and balances in place.

Bruce Butterfield, CAE, of the Forbes Group, provided an overview of a seven-step formula for crisis management. He mentioned that 83% of all crises have many warning signals that can be utilized to develop a response prior to the crisis - and, in many cases, to avoid the crisis altogether.

Art Herold, Esquire, of Webster, Chamberlain, addressed many legal requirements for establishing and operating an association. The issues he covered ranged from incorporating the association down to taking minutes.

Kevin McCray reviewed a strategic planning tool in which Pennsylvania already had the opportunity to participate.

Paul Humes, CPA, and Chris Reimer, NGWA Government Affairs, led a discussion on how states and national can work together.

The conference concluded with networking and dinner. This was truly a worthwhile experience for your leaders.



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*The Pennsylvania Ground Water Association newsletter is published quarterly. Deadline for copy and advertising is February 15, May 1, August 15, and November 15, 2003. For information on placing an advertisement or submitting an article, please contact Jodi Snyder, 7 Long Lane Drive, Hummelstown, PA 17036; telephone and fax 717. 566. 4587; email jlsnyder@epix.net.*

# The President's Report

From January 23 through the 25, 2003, the Pennsylvania Ground Water Association held its largest conference to date. Not only did it have a record number of attendees, there were more suppliers and manufacturers' displays than ever before.

For those of you who did not know, I was elected President of our organization. It is a position that I look forward to serving responsibly and wholeheartedly. My goals are to increase our membership and to better the services, benefits, and education of current PGWA members. I would also like to further public awareness of our industry.

I, along with the association, would like to thank Dick Raab for his years of service and dedication as past president. I would also like to thank all of the speakers, presenters, and sponsors who made our annual convention such a success. Once again, our executive director, Jodi Snyder, did an outstanding job organizing the event.

As president, I would like to encourage each of you to become involved in our ever-growing association. Our current committees and their chairpersons are listed below. Feel free to contact me if you have questions or are interested in serving on one or more of these committees. The association welcomes all members to take an active role in PGWA.


### ***Bill Reichart, President***

---

## PGWA Committees And Chairpersons for 2003

Legislative Committee	Dick Raab
Summer Meeting Committee	Todd Giddings, Ph.D., P.G.
Annual Conference Committee	Dick Burke
Membership Committee	Jim Hartmann
By-Laws Committee	Jim Hartmann
Awards Committee	Ernie Smith
Nominating Committee	Neil Negley
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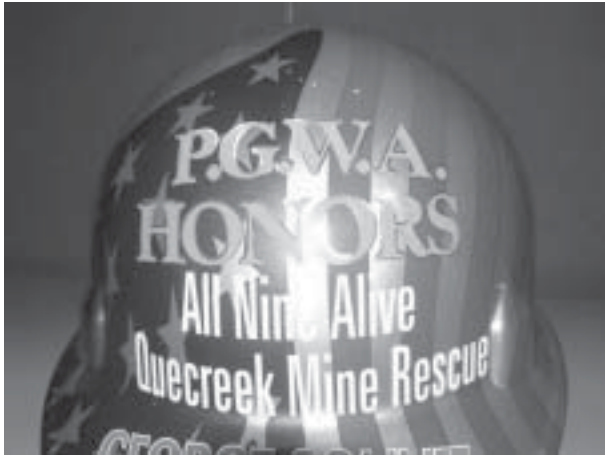


# PGWA Honors Five Rescuers of the Quecreek Miners

Five men who had key roles in the rescue of the nine miners described the role of drilling in the Quecreek Mine rescue. After their presentations and a question-and-answer session, the PGWA presented each man with a hard hat honoring them for their role in the Quecreek Mine Rescue.



The honorees (left to right) were Terry Belter, Duane Yost, George Sonnie, Richard Stickler, and Wayne Bolden.



A red, white, and blue hardhat was presented.

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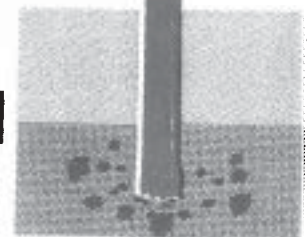
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# 2003 Summer Field Conference Announcement

June 20 & 21, 2003 in the Harrisburg Area of PA

## What will be demonstrated? (This will be a **FIELD** Conference with live demonstrations.)

- How to grout a residential water-well drilled by the cable-tool method. This innovative technique does not require a grout mixer or a grout pump to place the grout around the casing as the cable-tool drill rig drills the well.
- The Best Management Practices for control of cuttings and water will be shown.
- Proper decommissioning methods will be used to abandon and seal a well.
- NEW FOR 2003: Some of the educational demonstrations will take place simultaneously, so you can spend most of your time at the demonstration that is of most interest to you, but you can also check on the other demonstrations going on nearby on the Field Conference Site. Be sure to bring your digital camera or video camera to record the details.

## Why attend these demonstrations?

This Field Conference will demonstrate the proper construction, grouting, and decommissioning procedures for residential water wells drilled by the cable-tool method and the air-rotary method. These demonstrations are your opportunity to see and learn how proper, sanitary well-construction procedures protect the quality of Pennsylvania's ground-water resources.

**What will be on display?** Drilling rigs, grout mixers and pumps, watertight well caps, bentonite grouts, and many other products for well construction and decommissioning will be on display under a pavilion tent and on outdoor plots on the Field Conference site. Manufacturers and Suppliers will have tabletop displays and there will be large equipment on display. The large equipment on display will be operated.

**Who should attend?** Water-well drilling contractors, geologists, sanitarians, watershed specialists, hydrogeologists, water-supply regulators, water authority members, county extension agents, township supervisors and engineers, water consultants, equipment manufacturers, and suppliers to the ground-water industry.

## Proposed Schedule: Friday, June 20:

- 8:30 am to noon – registration desk open
- 9 am to noon – simultaneous well drilling, grouting, and construction demonstrations
- Noon to 1:00 pm - lunch (provided)
- 1:00 pm to 4:30 pm – well yield testing and well decommissioning demonstrations
- 4:30 pm to 6:00 pm – Operation of the large equipment that is on display.

## Saturday, June 21:

- 9 am to 10 am – PGWA General Membership Meeting
- 10 am to noon – training on the operation of the ground-water flow model
- Noon to 1:00 pm – Lunch (provided)
- 1:00 pm to 3:00 pm – Operating demonstrations of equipment on display
- 3:00 pm – Field Conference adjourns

**Registration Fee:** The fee for this Summer Field Conference is \$25 per person, and includes the demonstrations, the displays, and lunch on Friday, June 20. Lunch on Saturday, June 21 is also included for the attendees who elect to stay over and attend the PGWA General Membership meeting that will be held from 9:00 am to 10 am on Saturday. Registration for any employee or member of any federal, state, or local agency or government entity is free. To ensure that enough meals are available, advance registration is required for every attendee. The advance registration deadline is Friday, June 13<sup>th</sup>.

**Field Conference Location:** The 2003 Field Conference site will be located within 30 minutes of Harrisburg, PA. Location

maps will be provided on the PGWA Web site at [www.pgwa.org](http://www.pgwa.org) in the section on the Summer Field Conference.

**Lodging and Campgrounds:** There will be a list of nearby motels and campgrounds (with their phone numbers) on the PGWA Web site.

**Registration Form:** An advance registration form will be available on the PGWA Web site and in the next newsletter. Registrations will be accepted by e-mail.

**We need volunteers!** Set up will be in the afternoon and evening of Thursday, June 19<sup>th</sup>, and clean up will be on Saturday afternoon, June 21<sup>st</sup>. Please contact Todd Giddings, Committee Chairman, at [giddings@vicon.net](mailto:giddings@vicon.net) to volunteer even for an hour or two.

## Special Announcement for

**Manufacturers and Suppliers:** The attendees at the 2002 Summer Field Conference said they got a lot of information from the displays on the tables and from talking with the vendors. This 2003 Summer Field Conference will have display tables available to rent, where you can reach the more than 300 attendees that are expected to attend.

**NEW FOR 2003:** You will be able to rent large equipment display plots where, for example, a new drill rig model could be displayed and operated. Display equipment may not be operated in direct conflict with the public educational demonstrations, but other times on both Friday and Saturday are designated for the operation of display equipment. The large equipment display plots will accommodate a drill rig, a rig tender/service truck, a pump hoist, a grouter, a hydrofracking rig, etc.

Manufacturers and Suppliers will be able to sponsor the meals and the cold drinks at the Summer Field Conference. Details will be available on the PGWA Web site. Contact Todd Giddings if you have any display-related questions at [giddings@vicon.net](mailto:giddings@vicon.net).

# How to Grout a Cable-Tool Drilled Well Without a Grout Mixer or Pump

Carl Mason, also known as Mr. Mud, presented this innovative casing grouting technique for cable-tool wells at the Winter Conference. He used slides of the field procedure from a demonstration well drilled by Coudersport Well Drilling, Inc., and presented table-top demonstrations of the EZ-Seal bentonite grout during his talk. The splash deflector that he designed was on display at the Baroid Drilling Products booth in the display hall.

Hundreds of residential water wells are drilled by the cable-tool method throughout Pennsylvania each year, and few are properly grouted. This innovative grouting technique provides the means to grout the casing as it is installed. Due to the importance of grouting for both air-rotary and cable-tool

drilled wells, this technique will be demonstrated at the Summer Field Conference in June. The details are in the Field Conference Announcement in this issue.



*The splash guard unit used in grouting the cable-tool drilled well.*



*Carl Mason demonstrates the cohesiveness of the EZ-Seal bentonite grout.*

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# Certification Exams Taken by 31 Persons

More than 75 exams were taken by the greatest number of persons ever sitting for certification exams at a PGWA Winter Conference. The new licensing requirement in New York State caused the number of applicants taking the Certified Well Driller (CWD) and Certified Pump Installer (CPI) exams to increase to a new record high of 31 persons. By passing the General Exam and one specialty exam, experienced well drillers and pump installers can display the NGWA Certified logo and advertise their credentials. To learn more about this certification program, go to <http://www.ngwa.org/certification/contractor.html>.



*There was total concentration by everyone taking the Certification Exams.*

**Visit the PGWA Web Site: [www.pgwa.org](http://www.pgwa.org)**

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# W i n t e r C o n f e r e n c e

The PGWA Winter Conference held at the Penn Stater Conference Center Hotel in State College on January 23, 24, and 25, set several new records.

The total attendance of more than 300 registrants surpassed all previous winter conference numbers, as did the 43 display tables set up in the exhibit hall, which was 50% larger than last year to accommodate all of the displays. On Saturday, 31 drillers and pump installers took more than 75 certification exams, also setting two new records. Some highlights of this conference are shown in these pictures.



*Dick Raab thanks Dave Hanson for presenting the McEllhiney Lecture*



*Ernest Pender addresses the banquet attendees.*



*The banquet on Friday evening was enjoyed by all.*

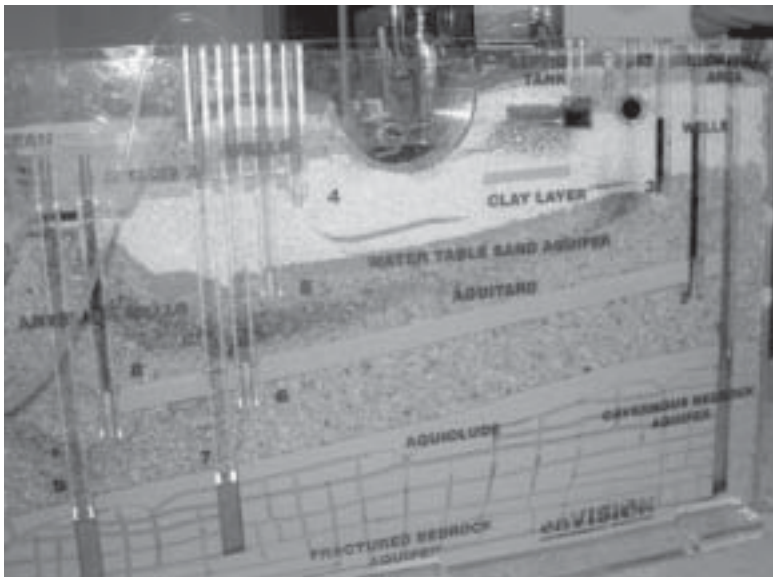
# S e t s   N e w   R e c o r d s !



*A constant pressure output valve system was exhibited in an operating display.*



*Richard Stickler uses a map of the Quecreek Mine to show where the Miners were trapped*



*Dye shows the movement of containments through the ground water flow model that was on display at the conference.*

*There were many product discussions during the reception in the exhibit hall.*



*Bob Reichart presents a copy of his letter nominating Len Assante for the Oliver Award that Len received at the 2002 NGWA Expo.*



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# PGWA to Exhibit and Demonstrate at Penn State's Ag Progress Days

by Todd Giddings, Ph.D., P.G.

More than 40,000 visitors attend Ag Progress Days each year in Rock Springs, Centre County. Many of the attendees are Pennsylvania farmers, and some bring every farm family member, including small children. The very latest equipment is on display and is demonstrated, and information is available on every aspect of farming and farm life. Because the majority of Pennsylvania farms get their water from one or more wells, the PGWA decided to reach out to this audience with an awareness and education program.

We will have a display table in the Conservation Tent where we will operate one of our ground water flow models. The model will demonstrate how aquifer pollution can occur and will show how proper grouting of the well casing protects the aquifer quality.

Ag Progress Days are August 19, 20, and 21, 2003. The hours will be: Tuesday the 19<sup>th</sup> from 9:00 am to 5:00 pm, Wednesday the 20<sup>th</sup> from 9:00 am to 8:00 pm, and Thursday the 21<sup>st</sup> from 9:00 am to 4:00 pm. There will be a total of 26 exhibit hours, during which we will need a minimum of two people in our booth to answer questions, operate the ground-water flow model, and promote ground water awareness.

The Public Awareness Committee is asking for volunteers to staff the booth, and we will need a minimum of 8 people who are trained to operate the ground water flow model. This flow model operation training will take place on Saturday, June 21 at the Summer Field Conference in Newville (see announcement in this newsletter). Please volunteer to help us at Ag Progress Days by contact-

ing David Powell, Chairman of the Public Awareness Committee of the PGWA, at [epwlpump@aol.com](mailto:epwlpump@aol.com).

I have attended Ag Progress Days for the past 10 years and have found them to be informative, educational, entertaining, and fun. I predict that you will visit many of the 300 other exhibits and demonstrations when you are not helping out in the PGWA booth. Because more than 40,000 people attend Ag Progress Days each year, hotel and motel rooms are sold out far in advance. Be sure to make your room reservations very early, perhaps tomorrow! Detailed information on Ag Progress Days events and exhibits is available at <http://apd.cas.psu.edu/>.

*See flow model photo on page 9*

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# A Rainy 2002 Didn't Banish the Invisible Drought

by Todd Giddings, Ph.D., P.G.

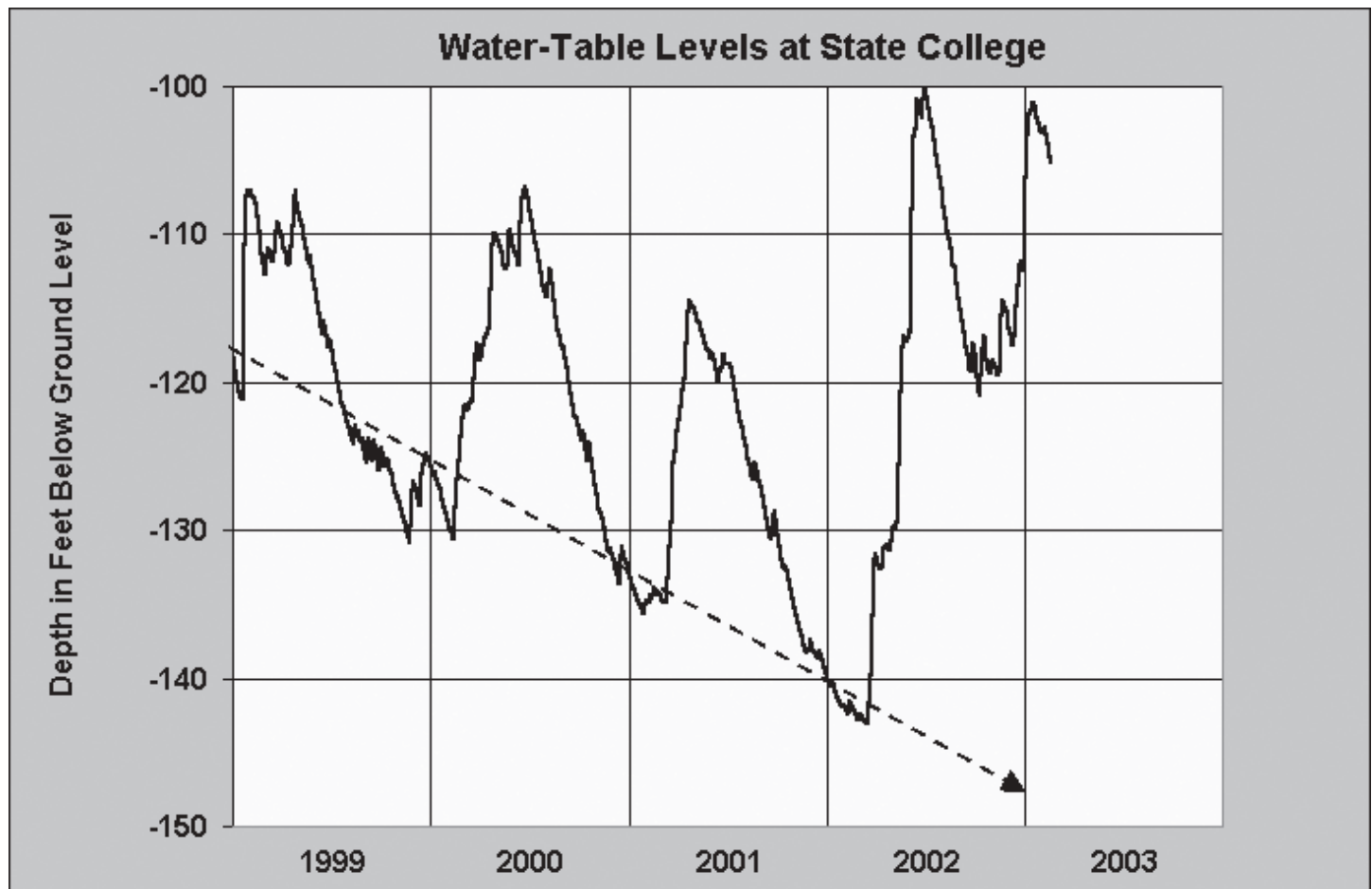
It's been about three months since we looked at the status of the ground water resources in the Spring Creek Watershed in Centre County, and we can now see how a slightly wetter-than-normal 2002 partially alleviated the Invisible Drought. At State College, 2002 ended with 10% above normal precipitation for the year, in contrast to 2001 with total precipitation 21% below normal, and 2000 with total precipitation 18% below normal.

So, with almost double the average monthly rainfall in both June and in October of 2002, why didn't the ground-water levels in the headwaters area of the Spring Creek Watershed recover to normal levels? The answer is that not enough ground water recharge occurred

to replenish the cumulative ground water storage deficit from the past four years. The dashed line on the hydrograph below shows three consecutive year-end ground water level declines that started each following year off at successively lower levels. Fortunately, 2002 ended that downward trend.

To end the four-year long ground water drought in the Spring Creek Watershed, they need to receive at least average precipitation, and frequently above-average precipitation, in each of the next several months. Yes, that's above-average amounts of rain, sleet, and especially snow, because a good snow pack will provide significant ground water recharge. Whenever a snow pack sits on the ground, it can melt slowly to become recharge and not become runoff.

Many residents in Centre County hardly used their snow blowers in recent winters, but they are certainly getting used this winter. Because plants are dormant in winter, they don't drink and then transpire soil water, and evaporation is low due to the cold temperatures. So we are currently in the best ground water recharge time of the year, and in Centre County we now have a lot of the white stuff on the ground. January 2003 precipitation was 18% below normal, but after mid-month, February was 23% above normal, and the current snow pack is now melting slowly and will provide significant ground water recharge. Visit [www.pgwa.org](http://www.pgwa.org) to learn what water-table levels are doing in your county.





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# PGWA General Membership Meeting Minutes

## State College, Pennsylvania -- January 24, 2003

The meeting commenced at 7:55 a.m.

- 1) **Approval of Minutes.** The minutes of June 29, 2003, were approved on a motion by Leon Slauch, second by Jim Hartmann.
- 2) **Secretary's Report.** Todd Giddings requested that anyone interested in volunteering to assist in organizing the Summer Field Conference program or logistics sign-up to do so.
- 3) **Treasurer's Report.** Bill Reichart announced the income and expenses for 2002 and current assets in the checking and investment accounts.
- 4) **Committee Reports.**
  - a) **Nominating Committee.** Each candidate for Director of the PGWA was given the opportunity to address the membership. The candidates were: Bill Reichart, John Buehler, Randy Clark, Todd Dillan, Richard Jackson, Neil Negley, David Powell, and Dick Raab. With there being no write-ins, a nomination to close the ballot was made by Dick Raab, second by Jim Hartmann. The motion passed unanimously. The six-year Directors elected were: David Powell, Richard Raab, and Bill Reichart. Neil Negley was elected to fill the four-year open position, since Dick Burke is now the Supplier Representative to the Board. A motion to destroy the ballots was made by Bill Reichart, second by Len Assante. The motion passed unanimously.
  - b) **Education Committee.** It was announced that the Summer Field Conference will be held the last Friday and Saturday in June (date changed to June 20 and 21 with this printing). PGWA participated in the AGWT Teacher Institute in Allentown in October. A request was made that articles for the newsletter or web site be sent to PGWA. PGWA will participate in the Penn State University Ag Progress Days in August. 50,000 people are expected to attend. PGWA will have a tabletop display.

- c) **Legislative Committee.** H.B. 1591 never came out of committee. It will now need to be introduced with a new number, since the legislative session ended in 2002. PGWA will not try to push anything through until the new Governor and DEP heads take positions. The Board tabled the decision of hiring a lobbyist. PGWA was asked to submit names for consideration to serve on a committee in 6 regions in the state to guide the development of regional plan components to the State Water Plan.
  - d) **Insurance.** The PGWA check signers have been bonded. Directors and Officers liability insurance was purchased in accordance with the PGWA bylaws.
  - e) **Winter Meeting.** PGWA may hold concurrent technical sessions next year, rather than only one general session.
  - f) **Awards Committee.** Joe Proch received an Honorary Membership to PGWA. PGWA presented Joe with a plaque.
  - g) **Bylaws Committee.** Judy Bear explained that the Bylaws change presented to the membership in the Fall newsletter removed the responsibility of taking minutes from the Secretary's duties and placed it in the Executive Director's. A motion to approve the change was made by Todd Reichart, second by Jim Hartmann. The motion passed unanimously.
- 5) **Membership Committee.** Jodi Snyder reported that 249 members have paid dues. It is still early in the year, so the actual 2003 membership will be closer to 280 in the next month.
  - 6) **Introductions of Guests.** Ernest Pender, NGWA President, Kevin McCray, NGWA Executive Director, Len Assante and Bob Reichart, NGWA Past Presidents, were welcomed to the Conference.

- 7) **Legislative Fly-In.** Members were encouraged to attend the Fly-in on March 17 and 18 in Washington, D.C. on behalf of PGWA. Reimbursement of \$150 toward hotel rooms will be made.
- 8) **NGWA Executive Director's Report.** Kevin McCray reported record attendance of over 5,500 people at the Las Vegas 2002 NGWA Expo. \$48,000 was raised for the Scholarship Fund. He encouraged members to attend the Fly-In to assist NGWA in talking to legislators about the Well Financing Program, which would allow low-income people to access funds to have wells. A \$10,000,000 Appropriation needs to be made, even though the legislation itself has already passed.

A motion to adjourn the meeting was made by Bill Martin, second by Len Assante.

*Respectfully submitted,  
Jodi L. Snyder, Executive Director*

## What to Do With Your PA One Call Invoice

Paying your PGWA dues annually entitles you to use the PA One Call System free of charge! However, PA One Call will not reimburse you if you pay the bill and then send the paid invoice to us. Send the bill the PGWA for verification of membership, and we'll take care of the rest. This benefit alone almost pays for your membership! If you are not a PGWA member, use the application on the back cover and join today!

## PA Driller Deadline

The next deadline for the *PA Driller* falls on **May 1, 2003**. Please submit all articles, advertisements, photos, etc. to:

Jodi Snyder, 7 Long Lane Drive,  
Hummelstown, PA 17036  
FAX/Phone (717) 566-4587 • email -  
[jlsnyder@epix.net](mailto:jlsnyder@epix.net)

# Exhibitor Early-Bird Registration Form PGWA 2003 Summer Field Conference June 20-21 - Harrisburg Area

Company Name \_\_\_\_\_  
Contact \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_  
Telephone \_\_\_\_\_ FAX \_\_\_\_\_  
Email Address \_\_\_\_\_

I would like to rent a tabletop exhibit  
@\$150 (includes 2 people; additional  
people must register @\$25 each). \$ \_\_\_\_\_

I would like to rent an outdoor  
equipment display @\$200 (includes 2  
people; additional people must register  
@\$25 each). \$ \_\_\_\_\_

Person #1 \_\_\_\_\_ (included)  
Person #2 \_\_\_\_\_ (included)  
Person #3 \_\_\_\_\_ \$ \_\_\_\_\_  
Person #4 \_\_\_\_\_ \$ \_\_\_\_\_

I would like to sponsor the event. Please  
call me to discuss options available.

**TOTAL DUE** \$ \_\_\_\_\_

Please make check payable to: PGWA  
7 Long Lane Drive  
Hummelstown, PA 17036

*If you have any questions, please call  
Jodi Snyder at (717) 566-4587.*

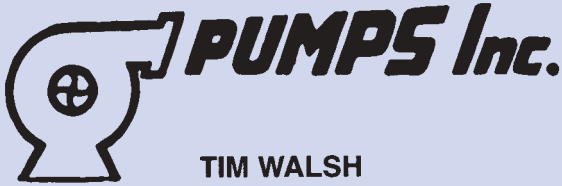
*More details will soon be available on [www.pgwa.org](http://www.pgwa.org)*

## PGWA Membership

Have you paid your PGWA dues? In order to continue to receive the many benefits of membership, please make sure your dues are current. Remember, paying your dues entitles you to use of the Pennsylvania One Call System - free!

Invoices were mailed in November. If you have not received your invoice, please call Jodi Snyder at (717) 566-4587, or complete another application to the right and enclose payment. **Thanks for your support!**

*Serving only the Licensed Groundwater Professional*



15 Tomlinson Road  
Huntingdon Valley, PA 19006  
(215) 947-7900  
FAX (215) 947-9907

3001 Montrose Avenue  
Reading, PA 19605  
(610) 929-0100  
FAX (610) 929-9230

## PGWA Membership Application

- Contractor - \$75
- Associate - \$75
- Manufacturer - \$75
- Supplier - \$75
- Technical - \$75
- Additional members from same category - \$30

### To the PGWA Board of Directors:

I hereby apply for membership in the Pennsylvania Ground Water Association and, if approved, agree to support the objectives of the Association and to pay the prescribed membership dues.

Signature \_\_\_\_\_ Date \_\_\_\_\_

Name \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Telephone \_\_\_\_\_ FAX \_\_\_\_\_

Email \_\_\_\_\_ Co. Web Site \_\_\_\_\_

### Mail to: PGWA

c/o 7 Long Lane Dr.  
Hummelstown, PA 17036

- Please check if you would like to serve on a committee.

Address Service Requested

Hummelstown, PA 17036  
c/o 7 Long Lane Drive

Pennsylvania Ground Water Association



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