

Pennsylvania Driller



Fall 2001

Annual Conference Issue

Schedule

Thursday January 24, 2002

New Location!

**Penn Stater
Conference
Center Hotel**

**January 24-26,
2002**

*see registration and
hotel information on
pages 6 and 7*

9:00-12:00 Board of Directors Meeting
10:00-3:00 **Free Hearing Tests** offered by NIOSH, sign up at the
Registration Desk
10:00-4:00 **Registration**
1:00-2:15 **Recognizing Dust and Noise Health Hazards for Water
Well Drillers** by David K. Ingram and R. J. Matetic of the
National Institute for Occupational Safety and Health
2:15-2:30 Break
2:30-3:30 **Rig Safety** by Joe Hogan, of the Hartford Group
3:30-4:30 **Certification Exam Primer** by Robert Reichart, Reichart
Well Drilling
6:30-? **Reception** - Sponsored by the Manufacturers and Suppliers
8:00-? **Hospitality Room(s)**

Friday January 25, 2002

7:30-12:00 **Registration**
7:30-10:00 **General Membership Breakfast Meeting**
8:00-3:00 **Free Hearing Tests** offered by NIOSH, sign up at the
Registration Desk
10:15-11:45 **Chemical Rehabilitation of Wells** by John Schnieders of
Water Systems Engineering, Inc.
12:00-1:00 **Lunch** included in registration fee
1:00 -? **Ladies' Program**
1:00-2:00 **"Operation and Preventative Maintenance"** by Harry
Glenz of Cummins, Inc.
2:00-2:15 Break
2:15-3:15 **Drilling in Africa** by Rob Fye of Reichdrill, Inc.
3:15-4:30 **Report on the Residential Water Well Legislation** by
Richard Raab, Chuck Eichelberger, and Todd Giddings
6:00 **Banquet**

Saturday January 26, 2002

8:00AM NGWA Certification Exams – Dr. Todd Giddings, Proctor

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Kevin McCray, NGWA Executive Director, will hold a planning session on Friday, Jan. 25



Officers

President

Richard Raab
215. 343. 1277

Vice President

James Hartmann
219. 827. 5140

Secretary

Todd Giddings
814. 238. 5927

Treasurer

William Reichart
717. 632. 2249

Executive Director

Carl E. Mason
814. 623. 1675

Board of Directors

(Officers and the following:)

Judy Bear
John Buehler, Jr.
Richard Burke
Scott Moyer
Richard Raab, Jr.
Todd Reichart
Ernie Smith

The Pennsylvania Ground Water Association newsletter is published quarterly. Deadline for copy and advertising is February 15, May 15, August 15, and November 15, 2002. 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.

Report From the President...

I hope you have had a good fall. Most of the State has been in a drought warning or watch. This has created additional work for the center of the state.

On January 24-26, 2002, we will hold our annual meeting at the Penn Stater Conference Center Hotel in State College. Please note, this is a new meeting location.

We have put together a program to cover many interesting subjects:

- Education- Chemical Rehabilitation of Wells
- Safety- Rig Safety and Hearing Test
- General information- Update on Legislation and Drilling in Africa

It is important to maintain your status as a professional driller to come out and take part in the program. The Association needs your support.

Our Legislation is moving forward. House Bill 1591 is out of committee and going to the floor of the House for a vote. I will give you an update at State College.

Richard Raab, President, Pennsylvania Ground Water Association

- IN MEMORIAM -

It is with a heavy heart that we announce the accidental death of **John Denning, 15**, on November 4, 2001. Our thoughts and prayers are with the Denning family on the loss of their son.


We also deeply regret to announce that **Richard W. Duffine**, founder of Duff Company, Norristown, Pennsylvania, died on September 24, 2001. Our thoughts and prayers are also with the Duffine family on their loss.

Residential Water Well Construction Legislation Approved by the House of Representatives

At 5:36 PM on Monday evening, November 19, 2001, the Pennsylvania House of Representatives voted 189 in favor of approval (to 7 votes against) of House Bill 1591 as introduced by Representative Mary Ann Dailey in May. This House Bill was then sent to the Senate for further action.

This legislation provides for the regulation of the location and construction of water wells, for licensing water-well drilling contractors, and for the collection of information on groundwater quality and quantity. It will confer powers and duties on the Department of Environmental Protection, create the Water-Well Construction Technical Advisory Committee, establish the Water-Well Construction Fund, and impose penalties for noncompliance with the regulations.

Pennsylvania is one of only four states without any standards and regulations for the construction of residential water wells and more than 20,000 new residential water wells are constructed in Pennsylvania each year. This legislation will protect the quality and quantity of the ground waters of the Commonwealth and the health of the household residents. To learn more about this important legislation and to read the full text of House Bill 1591, go to the PGWA Web site at www.pgwa.org.



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INTO

SUBMISSION



PGWA Board Minutes

September 26, 2001 - Lancaster...by *Todd Giddings, Secretary*

- Attendees:** President Richard Raab, Directors Jim Hartmann, Todd Giddings, William Reichart, Judy Bear, John Buehler, Jr., Dick Burke, Scott Moyer, Richard Raab, Jr., Executive Director Carl Mason, Jodi Snyder.
- Minutes:** The minutes of the June 16, 2001 General Membership Board of Directors Meeting were approved with a revision.
- Treasurer's Report:** Carl Mason presented a summary of transactions and balances in the Association's accounts. A motion was made by Dick Burke, and seconded by Todd Giddings to transfer \$20,000 from the checking account into an FDIC insured money market account that bears interest. The motion carried unanimously. A motion was made by Judy Bear and seconded by Jim Hartmann to have three individuals, the president, the treasurer, and the executive director authorized to sign checks and sign other financial documents such as transfer forms. Two signatures will be required on all checks and other financial documents. The motion carried unanimously. A motion was made by Jim Hartmann and seconded by Scott Moyer to bond each of the three individuals authorized to sign financial documents in the amount of \$20,000 each. The motion carried unanimously.
- Membership Report:** Current membership is 247 members.
- Legislation Report:** Richard Raab reported that the Residential Water Well Construction Standards legislation would not be approved in the Senate Environmental Resources and Energy Committee until the chairperson, Senator Mary Jo White, had completed an investigation.
- 2002 Winter Meeting:** The McIllheny lecture and NIOSH hearing testing will be featured in the winter conference at the Penn Stater.
- By-Laws:** The board discussed and decided upon many revisions to the By-Laws and developed a final draft. A motion was made by Judy Bear and seconded by Jim Hartmann to amend the By-Laws so that they reflected the current needs of the PGWA. The motion carried unanimously. The final draft of the revisions will be distributed to all directors.
- New Business:**
 - Newsletter:** A motion was made by Jim Hartmann and seconded by Judy Bear to mail the fall issue of the Pennsylvania Driller to all

continued on page 4

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PGWA Minutes...continued

PGWA members, all Pennsylvania licensed drillers, and all Pennsylvania members of NGWA. The motion carried unanimously.

- b. Educational Program: A motion was made by Judy Bear and seconded by Jim Hartmann to evaluate the opportunities to apply for a grant to further develop and conduct the educational programs of the PGWA. The motion carried unanimously.

- 9. **Next Board Meeting:** January 24, 2001 at the Winter Conference at the Penn Stater Conference Center Hotel.

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Why Do We Need to Revise Our PGWA By-Laws?

By Todd Giddings, Secretary

We need to change terminology and definitions to correctly reflect our profession and the operation of the PGWA. The last time the PGWA By-Laws were revised was in 1995, when the election of directors was changed so that directors now have overlapping terms and are not all elected at one time. This revision has provided important continuity and has benefited the operation of the PGWA. The Proposed By-Laws inserted into your copy this newsletter (for PGWA members) have been revised by the Board of Directors to bring them up-to-date with regard to terminology and operation of the PGWA.

In the Proposed By-Laws, the term "water well industry" has been changed to "ground water industry" to correctly identify our profession and to be consistent with our Association name. The construction of monitoring wells and geothermal wells has been added to the definition of our industry. The Manufacturers and Suppliers Division has been split into two divisions to reflect the current composition of the Board of Directors. Each individual and each corporate member of PGWA has one vote to elect directors, who are required to be members in good standing. The "President-Elect" officer position has been renamed "Vice-President" to correctly reflect the duties of that office.

The standing committee for the Northeast Ground Water Exposition has been deleted, as has the role of Local Chapters in the Association operation. E-mail and facsimile have been added as acceptable methods of communication for notices to Board Members. Throughout the By-Laws the term "he" and "him" has been changed to read "he or she" and "him or her".

If you have any questions concerning these proposed revisions to our By-Laws, you may contact any officer or director. Please resolve any questions so you will be able to vote in support of these Revised By-Laws at the General Membership meeting on January 25, 2002.



Learn How to Chemically Rehabilitate Plugged Wells

John H. Schnieders, a Fellow in the American Institute of Chemists, and a Certified Professional Chemist, is the second McEIlhiney Distinguished Lecturer. He will present a 90 minute lecture titled: "Chemical Rehabilitation of Wells". Schnieders is the principal chemist of Water Systems Engineering, Inc., an investigative and chemical systems design laboratory.

Water-supply well production loss and water-quality problems are often the result of mineral and biological fouling of pumps, casings, screens, gravel packs, and even the aquifer immediately around the well. As the flow spaces are plugged with mineral deposits and bacterial growths, ground-water flow into the well bore is slowed, and taste, color, and odors are often imparted to the water. Since the locations of this fouling are difficult to reach, chemical cleaning is the only practical method that can successfully remove the deposits and clean the surfaces of the screen, gravel pack, and adjacent aquifer.

Laboratory tests can be used to identify the mineral and bacterial deposits and will aid in the selection of the proper rehabilitation chemistry and in determining the chemical dosage. Major bacterial populations can be identified to determine the severity of the fouling. To achieve complete cleaning, mechanical actions are used with the chemicals selected. A complete rehabilitation protocol includes the chemistry, application techniques, mechanical actions, and the timing.

Schnieders' 90 minute presentation will include:

- A review of chemicals available for well cleaning.
- A discussion of mineralization and biological fouling, major causes of production loss, and water-quality problems.

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To be voted on at the General Membership Meeting on January 25, 2002

PENNSYLVANIA GROUND WATER ASSOCIATION, INC. BY-LAWS with PROPOSED REVISIONS

Article I – Name and Emblem

The name of this association shall be the PENNSYLVANIA GROUND WATER ASSOCIATION, INC. The association shall have an emblem of such design as the Board of Directors may adopt.

Article II - Objectives

The objectives of this Association shall be: to assist, promote, encourage, and support the interests and welfare of the ground water industry in all of its phases generally, and in particular within the Commonwealth of Pennsylvania; to foster, aid, and promote scientific education, standards, research, and techniques in order to improve methods of well construction and development, and to promote harmony and cooperation between well contractors and governmental and scientific agencies relative to the proper development and protection of underground water supplies; to encourage cooperation of all interested groups relative to the improvement of drilling and pumping equipment; to encourage, serve, assist, and promote close cooperation with the National Ground Water Association, Inc.; to collect, analyze, and disseminate to the public, facts about the role of the ground water industry in the economy of Pennsylvania and of the nation; and to advance generally, the mutual interests of all those engaged in the ground water industry, in their own and the public interest.

Article III – Membership

Section 1 – Nature of the Association. The Association is a voluntary, not-for profit corporation, without capital stock organized and existing under the laws of the Commonwealth of Pennsylvania and its membership shall be composed of persons engaged in the ground water industry who may, from time to time, be admitted to membership as prescribed by these By-laws.

Section 2 – Industry Definitions. The term “ground water industry” as used in these By-laws embraces all industries and persons engaged in drilling or constructing ground water wells, geothermal wells, and monitoring wells in Pennsylvania, manufacturing or supplying equipment to accomplish that task, studying, teaching or perfecting related technology, or evaluating or developing water resources in Pennsylvania.

Section 3 – Membership. The membership of this association shall be divided into six divisions, as follows:

1. Contractors Division
 - a. Individual – A person or firm engaged in the business of drilling wells, including pump installations.
 - b. Corporate – A corporation or firm engaged in the business of drilling wells, including pump installations. (Up to three individuals will be placed on all mailing lists, if desired.)
2. Manufacturers Division
 - a. Any person, firm, or corporation engaged in the manufacturing of equipment, materials, or supplies used in the ground water industry.
3. Suppliers Division
 - a. Any person, firm, or corporation engaged in the supplying of equipment, materials, or supplies used in the ground water industry.
4. Technical Division
 - a. Any person, firm, or corporation engaged in the supervision, regulation, evaluation, development, or investigation of underground or ground water supply installations or related technology or any individual in an accredited university, college, or preparatory school, public or private, teaching subject matter embracing the ground water industry.
5. Associate Division
 - a. Any person interested in the work of the Association who is not eligible for membership under other divisions, such as students, may become an Associate Member.
6. Honorary Division
 - a. Persons of acknowledged eminence from within or from outside of the ground water industry that have contributed some special service to the industry or to the Association, may be elected to Honorary Membership upon the recommendation of the Board of Directors. Honorary Members are exempt from membership fees and dues, and shall be entitled to all privileges and benefits as established by the Board of Directors.

Section 4 – Voting Power. Each Individual and Corporate member from the Association shall have one vote.

Section 5 – Application and Eligibility. All applications for membership shall come before the Membership Committee for approval.

Section 6 – Duration of Membership. Membership in this association shall terminate by death, voluntary withdraw as herein provided, or otherwise in pursuance of the By-laws. The right of a member to vote and all other rights, privileges, and interests of a member in or to the Association, its rights, privileges, and property, shall cease on the termination of membership. Any member may, by giving thirty days written notice to the Executive Director of such intention, withdraw from membership. Such notice shall be submitted to the Board of Directors at the next succeeding meeting thereof. Withdraws shall be effective upon the thirty-day notice and payment of all dues and obligations to the end of the current fiscal year. Failure to pay dues for six months will automatically terminate membership.

Section 7 – Suspension and Expulsion. For cause any membership may be suspended or terminated. Sufficient cause for such suspension or termination of membership shall be; violation of the By-laws or any agreement, rule, or practice properly adopted by the Association, or any other conduct prejudicial to the interests of the Association. Such suspension or expulsion shall be by two-thirds vote of the Board of Directors; provided, that a statement of the charges shall have been mailed, by registered post to the last known post office address of the member at least fifteen days before final action is taken thereon. This statement shall be accompanied by a notice of the time and place of the meeting of the Board of Directors at which the charges shall be considered, and the member shall have the opportunity to appear in person or by his/her representative and present any defense to such charges.

Section 8 – Reinstatement. All suspended, expelled, or delinquent members shall come into the Association as new members.

Article IV – Officers

Section 1 – Designation and Election. The officers of the Association shall be a President, a Vice-President, a Secretary, and a Treasurer, provided that the same person may hold simultaneously if so desired, the offices of Secretary and Treasurer. Each such officer shall be a member in good standing of the Association. The officers shall be elected by the Board of Directors following the annual Membership meeting of the Association. Each officer shall hold office for two years or until his/her successor is duly elected and qualified.

Section 2 – Duties of the President. The President shall be the Chief Executive Officer of the Association and shall preside at all meetings of the Association and of the Board of Directors. He/she shall be a member ex officio with the right to vote on all committees except the Nominating Committee. He/she shall have such other duties and authority as usually pertain to that office and as may be conferred upon him/her by the Board of Directors from time to time.

Section 3 – Duties of the Vice-President. The Vice-President shall in the absence of the President, perform the duties of the President. He/she shall perform such other duties as the President or the Board of Directors may from time to time direct.

Section 4 – Duties of the Secretary. The Secretary shall assist the Executive Director in conducting the correspondence of the Association and in keeping its records of minutes of Board meetings. He/she shall perform such duties as the President or the Board of Directors may direct, and shall perform such other duties as usually pertain to that office.

Section 5 – Duties of the Treasurer. The Treasurer shall keep an account of all money received and expended for the use of the Association. All sums shall be deposited in the financial institutions approved by the Board of Directors. Funds may be drawn only on the signature of the Treasurer and the Executive Director or the President. He/she shall annually prepare a financial statement subject to an audit by the Finance Committee. He/she shall prepare the coming year's budget for presentation at the annual meeting of the general membership. He/she shall perform such other duties as the President or the Board of Directors may from time to time direct.

The Treasurer, Executive Director, and President entrusted with the handling of funds or property of the Association shall be furnished, at the expense of the Association, a fidelity bond approved by the Board of Directors, in such sum as the Board of Directors may prescribe.

Article V – Local Chapters

Section 1 – Formation. Any group of members of the Pennsylvania Ground Water Association may form their own local organization by applying to the Association's Board of Directors for a charter.

Article VI – Management

Section 1 – Board of Directors. The management, affairs, business and concerns of the Association shall be vested in the Board of Directors. The Board shall consist of eight Directors from the Contractors Division, one Director from the Manufacturers Division, one Director from the Suppliers Division, and one Director from the

Technical Division. Officers of the Board shall be the President, the Vice-President, the Secretary, and the Treasurer. The eight Contractor Directors shall be elected by the general membership.

Section 2 – Director Terms. Directors shall hold office for a term of six years. These terms will be staggered so that the Board will have three newly elected Directors every two years. Directors will be eligible for re-election.

Section 3 – Eligibility. No person shall be eligible to be a Director unless he or she is a member in good standing of the Association. If any Director shall, during his or her term of office, ceases to be a member or employed by a member in good standing of the Association, he or she shall thereupon cease to be a Director.

Section 4 – Powers and Duties. The Board of Directors shall have power to make rules for carrying on the work and government of the Association not inconsistent with these By-laws; to fill vacancies which may occur during the term of any officer or Director; to engage and discharge employees and agents of the Association; including an Executive Director, and to fix their compensation; to have charge of all property and assets of the Association; and to do all other lawful acts, necessary and proper to carry on the business of the Association.

Section 5 – Responsibilities. The Board of Directors shall be responsible to the members for its conduct of the business and affairs of the Association and shall report to the members, at each Annual or Special Meeting thereof, the activities it has undertaken or directed the officers or the Executive Director to undertake.

Section 6 – Quorum. A majority of the Board of Directors shall constitute a quorum. Any number less than a quorum may adjourn a meeting.

Section 7 – Chairman of the Board of Directors. The President of the Association shall be Chairman of the Board of Directors and shall preside at all meetings of the Board of Directors.

Section 8 – Meetings. The Annual Meeting of the Board of Directors shall be held within a thirty (30) day period prior to each Annual Meeting of the General Membership. Three (3) other regular meetings will be held throughout the year. Special Meetings of the Board of Directors may be called by the Chairman, or by any five (5) members of the Board of Directors.

Section 9 – Notice of Meetings. Notice of each Annual Meeting of the Board of Directors shall be given by the Executive Director not less than ten (10) nor more than thirty (30) days before the date of the meeting. The Executive Director shall give notice of Special Meetings at least five (5) days before the meeting. Notice shall be sent by mail or by e-mail or fax to the last known mailing address of each Director, except that in the case of a Special Meeting, notice may be arranged by telephone. Each such notice shall specify the purpose for which such Meeting, Annual or Special, is being held.

Section 10 – Place of Meetings. The Annual Meeting of the Board of Directors shall be held at such place as the Chairman shall designate. Special meetings shall be held at such time and place as the Chairman or the persons requesting the meeting may designate.

Section 11 – Mail Ballot. Any action which may be taken at any meeting of the Board of Directors may be taken without a meeting by mail, e-mail, or fax ballot; provided, however, that a consent or consent in writing, setting forth the action so taken, shall be signed by not less than three-quarters of the Directors entitled to vote with respect to the subject matter thereof.

Article VII – The Executive Director

Section 1 – Designation. The Executive Director shall manage the Association's administrative affairs at the direction of the officers and /or the Board of Directors.

Section 2 – Duties. The Executive Director shall, under the supervision of the Board of Directors, perform the following duties:

- a. Establish and/or maintain headquarters offices, properly staffed to perform the business of the Association.
- b. Conduct the correspondence of the Association.
- c. Maintain current records of the Association as follows:
 1. Records of membership
 2. Records of all assets, including real property if any, owned by the Association, together with records of any transactions involving such assets.
 3. Records of all financial transactions of the Association.
- d. Give notice of all meetings of the Board of Directors and General Membership as provided in these By-laws.
- e. Attend all meetings of the Board of Directors and General Membership and promptly distribute the minutes to all Directors.
- f. Perform such other duties as per contract or as the Officers or the Board of Directors may from time to time direct, and generally devote his/her best efforts toward advancing the interests and business of the Association. Actively promote the objectives of the organization by assisting, promoting, encouraging and advancing the interests of all those engaged in the ground water industry.

Article VIII – Association Meetings

Section 1 – Annual Meeting. The Annual Meeting of the Association shall be held in the first quarter of the calendar year on such date and at such place as the President, with the advice of the Board of Directors shall designate.

Section 2 – Semi-annual Meeting. Another meeting shall be held sometime during the year at such a place and time as the Board of Directors designate.

Section 3 – Special Meetings. Special Meetings of the Association may be called by the President at his/her discretion with the advice and consent of the Board of Directors.

Section 4 – Voting. No member shall be qualified to vote, who is determined by the Executive Director to be in default of any financial obligation due and owing to the Association. The members present shall constitute a quorum.

Section 5 – Notice. The Executive Director shall give written notice of meetings by mail to all members not less than twenty (20) nor more than forty (40) days prior to the date of each annual or semi-annual meeting, and not less than seven (7) nor more than forty (40) days prior to the date of any special meeting.

Section 6 – Dues. Annual dues rates for members of all divisions shall be prescribed by the Board of Directors subject to the approval of the General Membership of the Association at any meeting of the Association.

Article IX – Committees

Section 1 – Standing Committees. The Standing Committees of the Association shall be as follows:

- a. Finance Committee
- b. Standards, Research, and Ethics Committee
- c. By-laws Committee
- d. Nominating Committee
- e. Committee on Awards
- f. Membership Committee
- g. Legislative Committee
- h. Such other committees as the President may from time to time appoint.

Section 2 – Duties. The Committees shall perform such duties as the President or the Board of Directors may from time to time direct.

Section 3 – Committee Membership. The President shall appoint the members of all committees of the Association.

Article X – Indemnification

Any PGWA Director or Office made a party to or threatened with any civil, criminal, or administrative action, suit, or proceeding by reason or the fact that he/she is or was a director or officer of the Association or any of its divisions, may be indemnified by the Association against the reasonable expenses, including attorneys' fees, actually and reasonably incurred by him/her in connection with such action, suit, or proceeding, or in connection with any appeal therein, except as to matters as to which such Director or Officer is guilty of negligence or misconduct in the performance of his/her duties. Such indemnification shall not be deemed exclusive of any other rights to indemnification which such Director or Officer may be entitled apart from form the By-laws. The Association shall purchase and maintain liability insurance on behalf of the any person who is or was a Director or and Officer of the Association against any liability asserted against him/her and incurred by him/her in such capacity, or arising out of his/her status as such, whether or not the Association would have the power to indemnify him/her against such liability.

Article XI – Amendments

Section 1 – Power. These By-laws may be amended by a two-thirds vote of the members present at any General Membership Meeting.

Section 2 – Presentation. Amendments to these By-laws may be proposed by the Board of Directors or by any thirty (30) members. Any member in good standing may suggest an amendment to the Board of Directors in writing.

Section 3 – Notice. Notice of any proposed amendment to these By-laws shall be mailed by the Executive Director to the General Membership not less than twenty (20) days before the date of the meeting at which consideration of the proposed amendment is sought.

To be voted on at the General Membership Meeting on January 25, 2002

PA Driller Deadline

The next deadline for the *PA Driller* falls on **February 15, 2002**. Please submit all articles, advertisements, photos, etc. to:

Jodi Snyder
 7 Long Lane Drive
 Hummelstown, PA 17036
 FAX (717) 566-4587 (also phone)
 email - jlsnyder@epix.net

Learn How to Chemically Rehabilitate Plugged Wells...continued

- Guidance on selecting the right chemistry for the problem.
- A review of how to determine the correct amount of acids, enhancers, etc.
- Examination of mechanical applications and why they are necessary.
- Some disposal and preventative maintenance considerations.
- A question and answer session.

Make Your Room Reservation Today!

The Penn Stater Hotel has a block of sleeping rooms for Conference attendees at a rate of \$73 per room, per night for single or double occupancy. The Conference runs from Thursday afternoon (January 24) to Friday, and ends with the banquet Friday night. So, if you are staying for the banquet or the certification exams, you may wish to stay over Friday as well. The certification exams occur on Saturday.

Call (800) 233-7505 to make your reservation today! Notify the Penn Stater that you are with the *PA Ground Water Association*. **Room block cut-off is December 24, 2001.**

Directions: Take the Penn State University Research Park exit of U.S. 322 West, turn right and follow Park Avenue to the Penn Stater Conference Center Hotel. If you are using a route other than 322, please call the hotel for directions.

Registration Form

2002 PGWA Annual Conference • Penn Stater Conference Center Hotel • State College

Name

Company

Address

City, State, Zip Code

Telephone FAX

Spouse (if attending)

Pre-Registration for Non-members (Walk-in Non-members \$25 additional) & Walk-in Members

First Non-member @ \$125 \$ _____

____ Additional individuals @ \$75 \$ _____

____ Friday night banquet @\$30 \$ _____

Student Registration

____ Student registrations @ \$30 \$ _____

____ Friday night banquet @ \$30 \$ _____

Names of additional persons to be registered and their spouses (if attending):

Name Spouse (if attending)

Name Spouse (if attending)

Name Spouse (if attending)

Name Spouse (if attending)

Number of persons taking Certification exams _____

Number of persons taking Master Well Driller Exam _____

Number of persons participating in Ladies Program _____

Please make check payable to Pennsylvania Ground Water Association, Inc. and mail to:

PGWA
c/o Jodi Snyder
7 Long Lane Drive •
Hummelstown, PA 17036
or FAX to (717) 566-4587 (phone also)

Pre-Registration for Members (Walk-ins \$25 additional)

First Member @ \$100 \$ _____

____ additional individuals @ \$50 \$ _____

____ Friday night banquet @ \$30 \$ _____

Attention PGWA Manufacturers and Suppliers!

You're cordially invited to participate in the 2002 PGWA Annual Conference as a Sponsor and Exhibitor. The Conference will be held at the Penn Stater Conference Center January 24, 25, and 26, 2002. This is a very popular and well-attended affair. We are very excited that we will be moving to a larger facility this year.

A reception will be held on Thursday evening, January 24. **The cost of the demonstration tables below includes the reception sponsorship.** It does not include Conference Registration (see registration form). Reception sponsorship without a display table is \$115.

Again this year we have arranged to have permanent tables available. You may choose to reserve more than one table (or the equivalent double or triple space without an extra table), if your exhibit is large.

During the Reception on Thursday evening, food and the open bars will be located in the exhibit area. Other breaks will also be set up in the exhibit area.

No pictures, posters, or any other signs may be fastened to the walls of the rooms, so use poster boards that will lean against the wall or stand on the back of your table. Each display and demonstration table is six feet wide and 30 inches deep. If you will need more space, then rent two or three adjacent tables, as stated above.

The cost for **display tables** is \$200 each. Each of these rental costs includes a \$75.00 contribu-

tion for the food and open bars. Tables will be assigned on a first-come, first-assigned basis. Everyone attending must also be registered for the Conference (see form).

Setup for the tables begins at 9:00 a.m. on Thursday, January 24,

2002, and tear down begins at 5:00 p.m. on Friday, January 25, 2002.

Please contact *Jodi Snyder* at (717) 566-4587 if you have any questions. Use the Sponsor/Display Form below to register today! Also enclose the preferred location for your exhibit (see page 11).



Exhibitor/Sponsor Registration Form

(please complete Registration Form on Page 8 and include with your form)

Company Name _____

Contact Name _____

Title _____

Address _____

City/State/Zip _____

Telephone _____ FAX _____

- I would like to Sponsor the Thursday Reception @\$115 \$ _____
- I would like to rent an in room display table @ \$200 \$ _____
(includes Sponsorship)
- I am registering the following individuals to staff the booth (each individual must be registered!)
 - Person #1 (\$100) _____ \$ _____
 - Person #2 (\$50) _____ \$ _____
 - Person #3 (\$50) _____ \$ _____
 - Person #4 (\$50) _____ \$ _____
- I need electricity for my booth. A \$35 charge will be necessary to reserve electric. The hotel will provide a separate form for ordering electric.

Preferred exhibit location (see page 11) #1___ #2___ #3___ #4___

Please make check payable to: Pennsylvania Ground Water Association
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Please call Jodi Snyder - (717) 566-4587 if you have any questions.

See floor plan on page 11.

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New Drought Monitoring Well Activated in the Spring Creek Watershed

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

From the DEP Press Release: Ferguson Township, Centre County - On September 5th, Pennsylvania Department of Environmental Protection Secretary David E. Hess activated a new drought monitoring well, CE 686, that is the latest addition to the state's water resources monitoring network.

"Since 45 counties, including Centre, are under a drought watch, the timing of the commissioning of this well is especially important," Secretary Hess said. "This well will provide us with important, real-time data about the Spring Creek Watershed and give us a better handle on how much groundwater supply there is, and when we need to ask residents to step up their conservation efforts."

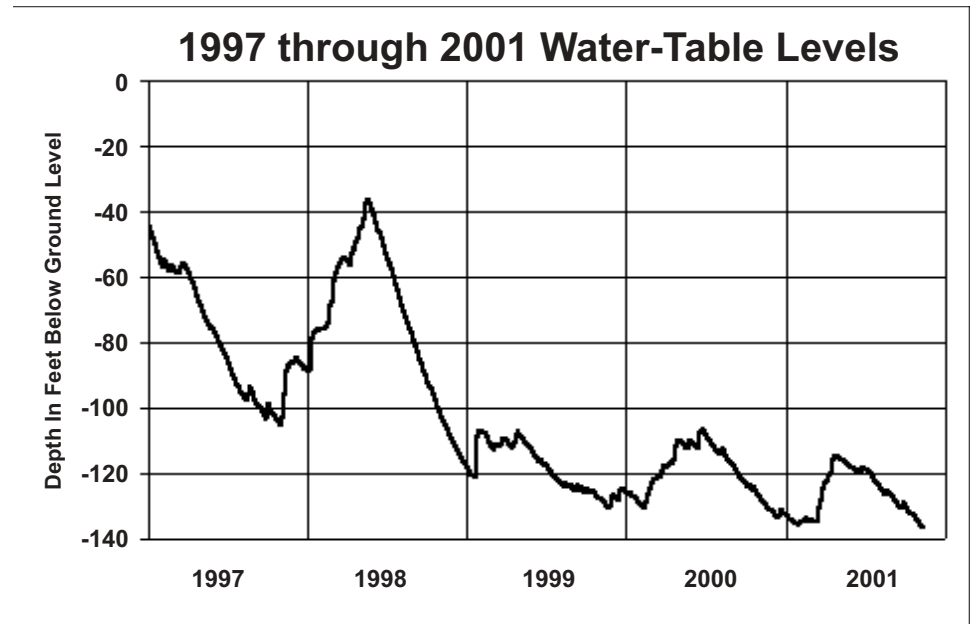
"Our water forums earlier this year pointed to a need for better, more accurate water resources information. This is a step in that direction, but we need legislation this fall to give us the authority to do a comprehensive update of the state water plan. I want to thank our partners in the Spring Creek Watershed community, especially Todd Giddings who donated the well, and the U.S. Geological Survey (USGS) for helping to build our drought monitoring network."

"I am happy that this well is going to become part of the state's drought monitoring network," Todd Giddings said. "I have dedicated a large part of my career to studying this watershed, and I am thrilled that this well will help make a difference in how we use water in this community".

Spring Creek Watershed Water-Table Levels and Stream Flow at Record Low Levels: The Invisible Drought is continuing in Centre County, and the water-table level hydrograph from this monitoring well shows that ground-water levels are the lowest they have been in the last five years, including the drought emergency in the summer of 1999. Precipitation this year is 8.05 inches below normal, which is a 23 % deficit. Of the 106 years of precipitation records at the Penn State Weather Station, with the wettest year ranked 1 and the driest year ranked 106, 2001 year-to-date ranks 100! Not surprisingly, Spring Creek has set many new low flow records this year.

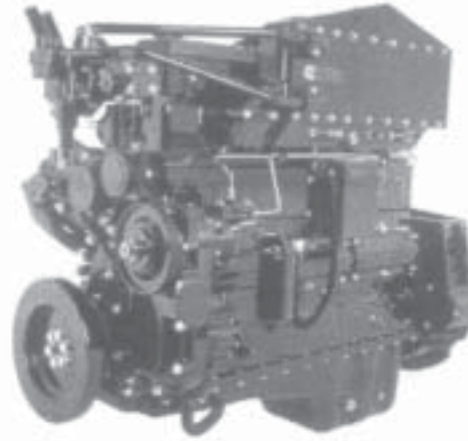
Soaking rains in September did not contribute to significant ground-water recharge because much of the water was absorbed by the dry soil, and then was evaporated or was consumed by plants. Only when trees, shrubs, grasses, and other plants go dormant this fall will the transpiration consumption of soil moisture be reduced to a point where a 1-inch soaking rain can contribute to significant ground-water recharge. Evaporation of soil moisture is also very low during the winter due to low temperatures. The low level of evaporation and transpiration, called evapotranspiration, during the late fall, winter, and early spring causes the months of November, December, January, February, and March to be the time when significant ground-water recharge occurs. Contrary to popular belief, ground frost does not prevent all ground-water recharge, because there are many discontinuities in the frost layer that allow water to percolate down into the underlying bedrock and reach the water table.

A satellite transmitter at the new drought monitoring well sends the water-level data to a geostationary satellite that relays the data through a ground station in Harrisburg into the USGS data base. The water-level data is available in real-time on the USGS Web site. To learn more about how this live-on-the-Web monitoring well works, and to see photos of the commissioning ceremony, visit the PGWA Web site at www.pgwa.org. You will be able to see a current hydrograph from this well, and determine if any recent rains have contributed to ground-water recharge. This Web site also has a discussion of the Invisible Drought with precipitation graphs, six years of hydrographs for the monitoring well, a record low flow hydrograph for Spring Creek, and a map of the location of this monitoring well. You can e-mail me with comments or questions about this new monitoring well through the webmaster link on the Web site. I would like to hear from you, and to learn if there is a drought in your area.



Have you visited our Web site?
www.pgwa.org

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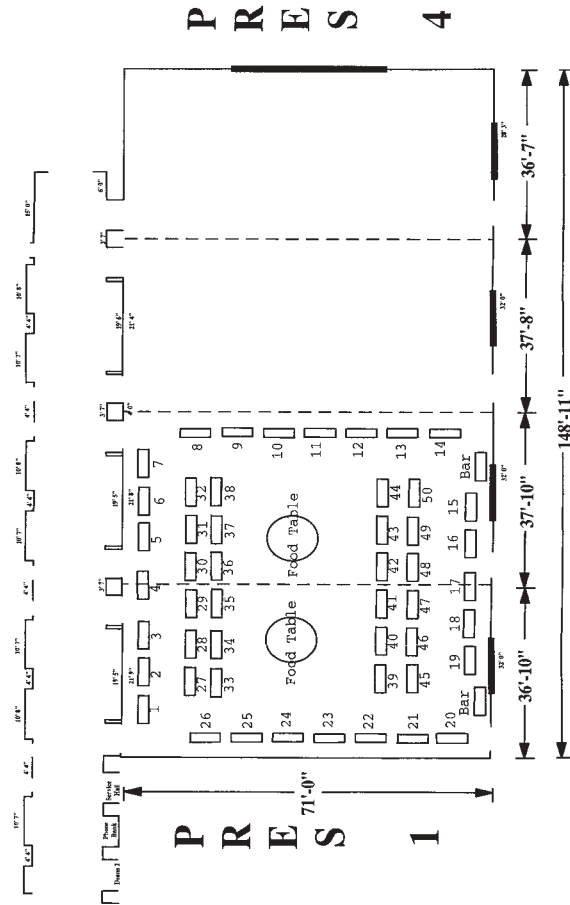
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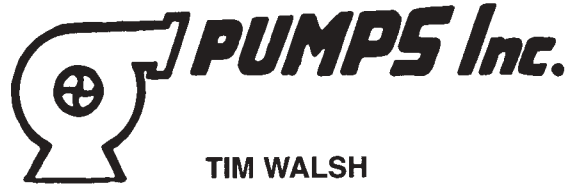
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Free Hearing Test

The National Institute for Occupational Health and Safety (NIOSH) will be offering free hearing tests to everyone attending the PGWA Winter Conference at the Penn Stater Conference Center Hotel. Occupational hearing loss is the most common job-related disease in the United States, and is specifically identified as a problem in the construction, agricultural, and mining industries. Efforts to prevent occupational hearing losses are hindered because the problem occurs gradually over a long period of time, and without significant pain.

Hearing tests will be conducted in the NIOSH Mobile Audiometric Testing Trailer, which will be parked right outside the conference hall. All hearing tests are performed by certified audiologists, nurses, or fully-trained technicians with Council for Accreditation in Occupational Hearing Conservation (CAOHC) certifications.

Your test results are printed out immediately upon completion of your test, and the audiometric configuration and degree of hearing loss (if any) is then explained to you. It should be noted that a medical diagnosis cannot be given by the on-site examiner because this can only be performed by a licensed physician. However, the examiner will be able to tell you whether your hearing is consistent with the typical pattern seen as a result of over-exposure to noise, or whether another cause may be suspected.

Schedule your free hearing at the registration desk in the lobby of the Penn Stater Hotel.

Membership Application - PGWA

- Contractor - \$75
- Associate - \$30
- Pump Installer - \$75
- Manufacturer and Supplier - \$65
- Technical/Scientific - \$65

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 _____

Mail to: PGWA, c/o 7 Long Lane Dr., Hummelstown, PA 17036

Remember, you must pay 2002 dues to attend the 2002 Annual Meeting at the member rate. Invoices were mailed November 20, 2001. If you did not receive one, you may use this application to pay your dues.



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