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Can you identify this mineral? See page 12.

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Message from the President

Fellow members of PCPG, I am honored to serve as your president in 2011. Jim LaRegina P.G., our 2010 president, passed the gavel to me in January, and PCPG has started the year strong with a well-attended and praised annual board meeting in January 2011 which carried through to our seminar offerings during the first quarter.

Last spring the board held several strategic planning meetings to determine our goals for bringing the best value to the PCPG membership and the means to achieve these goals. The three major goals that came out of those meetings were education, networking, and advocacy. Committees, made up of board and general membership, were formed to achieve the three goals. The PCPG committee members and their chairs are a big reason for our current success and momentum.

The three major committees are Government Affairs, chaired by Don Wagner P.G., Education, chaired by Jennifer O'Reilly P.G., and Communications, chaired by Kelly Kinkaid P.G. Also, because of the growing interest and opportunities with the Marcellus Shale play, a Shale Gas committee was formed and is chaired by Dan Billman P.G. Each committee keeps membership abreast of key information via email blasts, our quarterly newsletter, and our website (www.PCPG.org). If you have time and wish to help on a committee, please contact myself or the committee chair you wish to support.

I also would like to welcome our new board members. -- Ethan Prout, P.G. of Rettew Associates, Inc, George Hunzeker, P.G. of Letterle & Associates, LLC and Gary Kribbs, P.G. of AEON Geoscience, Inc., and congratulate Lou Vittorio, P.G. of Earth Res Group who was elected by the board to serve as the PCPG president in 2012. I look forward to a great year, and remember, your support and participation on committees will help PCPG maintain the success we have had over the last several years.

Regards,

Jeff Leberfinger, P.G.

PCPG President



EDITORIAL: PCPG Supports the Responsible Development of Pennsylvania's Shale Gas Resources

-- Donald R. Wagner, P.G., (Government Affairs Committee Chairperson)

As a diverse group of over 450 licensed professional geologists, geologists and allied scientists, PCPG advocates the use of sound science in the responsible exploration and development of Pennsylvania's natural resources in a manner that protects human health and the environment. Many of our members are seeing increased business opportunities arising from energy development driven investments in the Commonwealth, and I'm sure many of you have also noticed the dramatic growth in anti-natural gas development articles, editorials and public debate. As a science-based organization of professionals, it is evident to me that PCPG and its members have a valuable role to play in the dissemination of accurate, science-based information to correct some of the misinformation that is being repeated in the media about shale gas development, especially the purported negative effects of hydraulic fracturing.

Pennsylvania is blessed with significant economically viable natural gas resources in the Upper Devonian Shale, the Marcellus Shale and the Utica Shale. Estimated to contain nearly 500 trillion cubic feet of natural gas, the Marcellus Shale in and of itself is thought to be among the largest shale gas plays in the world. One Penn State study has projected that development of Pennsylvania's Marcellus Shale formation alone could generate \$13.5 billion in economic activity over the next 11 years.

While the Marcellus has been getting most of the press time, the deeper Utica Shale is even more extensive than the Marcellus, underlying parts of Pennsylvania, New York, West Virginia and eastern Ohio. The fact that the Upper Devonian, Marcellus and Utica shales are co-extensive in some areas of Pennsylvania uniquely positions our Commonwealth to be a major energy producing state and provides added incentive for responsible development. For example, Range Resources recently announced that it views the Upper Devonian, Marcellus and Utica shales as a "triple play" of plays, making them the most economical plays in North America. As a sign of that belief, Range Resources recently announced that it is selling almost all of its Barnett Shale holdings in North Texas to focus on its Marcellus holding. According to one Range Resources representative, a very significant advantage of Pennsylvania's shale gas plays is that Range can develop the Upper Devonian and Utica plays in areas where it is already developing the Marcellus, utilizing the same acreage, roads, surface improvements, water management, transmission lines and compression stations, thereby reducing its surface footprint and its incremental development costs. John Pinkerton, CEO of Range Resources, has been quoted as stating that Range believes it may ultimately realize net production equivalent to 2 billion to 3 billion cubic feet of natural gas per day from the Marcellus. To put that in perspective, that projected production rate is roughly half the current daily production from all operators in the Barnett Shale – and that's just one Pennsylvania operator.

As stated above, PCPG considers responsible shale gas exploration and production to be a worthwhile and necessary endeavor that will have a very significant and continuing positive effect on Pennsylvania's economy. Additionally, shale gas production in Pennsylvania promotes energy independence for the United States and, as natural gas is the cleanest burning fossil fuel, there are also positive implications for air quality. As an organization, PCPG believes that natural gas well drilling and production, processing, compression and transport can and must be performed in an environmentally responsible and scientifically sound manner while minimizing the potential for adverse environmental impacts.

PCPG also recognizes that oil and gas exploration and development has a long history in Pennsylvania – it is a lawful and beneficial commercial enterprise, contributing to the energy independence and economic vitality

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of the Commonwealth. We are mindful that in a competitive economic climate, unduly burdensome, duplicative, time-consuming, unpredictable and costly regulations can have a detrimental effect on business investment and development decisions. We recognize that there are substantial costs involved in the exploration and development of shale gas resources and no guarantee on any given well that those costs will be recovered. Lastly, we recognize that the exploration and development of shale gas resources in the northeast United States is in the early stages, and the limits of where each potential shale unit may or may not produce natural gas of sufficient quantity and quality for economic production are not yet clearly defined.

PCPG is also very cognizant of the subjective and selective presentation of shale gas exploration and development information that has been reported in print, broadcast media, and via the Internet. Often, such selective and subjective information conveys erroneous information to the public and to public officials, resulting in unnecessary confusion, exaggerated concerns, and public calls for overly burdensome or restrictive regulation of an industry, based on little more than unsupported allegations, factual inaccuracies and popular opinion.

PCPG fully supports the environmentally and socially responsible and scientifically sound development of our considerable shale gas resources. We encourage our legislators and regulators to consider sound scientific principles in the regulation of natural gas development in the Commonwealth and to separate fact from fiction when formulating natural gas development policy. PCPG also encourages each of its members to contact their state senators and representatives and pass along the message – science over sound bites, facts over fiction. PCPG's Shale Gas Position Statement is accessible at <http://pcpg.org/MarcellusShale>.



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Delaware State Geologist Set to Retire in June

-- Walt Leis, P.G. (Tetrahedron Consultants, Inc.)

John H. Talley, the fifth state geologist in Delaware, will retire on June 30, 2011. Delaware is that small state to our southeast that used to be called "the lower 3 counties of Pennsylvania" (thanks in part to Messrs Mason and Dixon's inaccurate maps). John has served in the Delaware State Geological Survey (DGS) for 38 years. He began his career as a part-time hydrologist with the DGS in 1973. At that time, the survey was made up of less than 10 full-time employees and was structurally organized like other agencies, having many departments with few employees.

I first ran into John when I was a graduate student at University of Delaware. He was participating in a pumping test as a state employee; however, his involvement was different from the norm. The test was being conducted for a permit allocation on behalf of a commercial entity. Here, the state agency was actually "pitching in" and not merely overseeing the data collected. Having come from the public sector, this was a concept that was mostly foreign to me. John explained that his boss, then state geologist Dr. Robert "Bob" Jordan had initiated an idea that his organization would not just be science-based, but it would be a science- and service-based organization.



Photo above: John H. Talley, P.G., Director of the Delaware Geological Survey & Delaware State Geologist.

When Bob retired in 2003, John who had already advanced to the position of Associate State Geologist assumed the duties of State Geologist and continued most of Dr. Jordan's programs. Rather than simply brushing Bob's ideas aside, John kept the goals of the DGS intact and actually grew the "service" component to a higher level that would make his predecessor proud. John also grew and expanded programs, enacting his vision for the DGS.

John is a humble geologist, who prefers to tout the accomplishments of others at the DGS, rather than recounting his own successes (I'll get to that soon). Overall, the DGS looks at ground water, earth resources, geohazards, data management and dissemination, and geospatial formatting as a benefit that they provide to their customers. John's vision and leadership was essential in providing the packaging of this data. However, when you talk with DGS staff you will get a totally different opinion regarding John's legacy. I've talked with DGS professionals and staffers and they confirm that John doesn't refer to them as "his employees," but rather to himself as "their colleague". They like to recall how, soon after John became the State Geologist, he "flattened" the organization and radically simplified the DGS organization chart. In fact, it now looks more like an orchestral seating chart than a government organization. That structural change created a professional learning atmosphere, and created a spirit of "family" in the survey. After all, with fewer than 18 staff members, why waste staff time on illusory organizational structures?

When pinned down, John is most happy recounting his accomplishments associated with what the DGS calls "the DataMIL" (Data Mapping and Integration Laboratory). In 1979, John wrote a small grant proposal to the Department of Energy (DOE) to gather, assemble and store drill log data from off-shore oil exploration. All of this was to be completed using "desktop computers" that barely existed in 1979. That little experiment outlived its initial assignment and became the core of the DGS "DataMIL."

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Today, the DGS maintains a constantly updated web site of recorded data containing maps, well logs, drill hole and geophysical data, fossils, ground-water information, stream records and all sorts of other very useful geological information. The current data count is in the tens of millions, with all being retrievable on the "deep" web. Point your browser here, <http://datamil.delaware.gov/geonetwork/srv/en/main.home> or here, <http://www.dgs.udel.edu/> to view the vast sum of available information. Through penning the initial DOE grant in 1979 and nurturing the DataMIL program and its offspring, John may be one of the founders of the "deep web" and its seemingly bottomless resources.

The DGS is now gearing up for the next budgetary go-rounds. As a science AND service organization, John wants to start his retirement knowing that there are no budgetary setbacks in significant DGS services. His interests always seem to be in the materials that the DGS can provide the end user. I recently spent a few hours at the DGS just peering over the new surface geology maps of the coastal areas around Sussex County. I was amazed at how these maps have been essentially redone by compiling entirely new drilling data and hand-tool sampling by DGS geologists. Where there was a vast geologically vanilla coastal plain surrounding the towns of Rehoboth and Lewes, there are now detailed maps of surficial geology on digital 7.5 minute quadrangle base maps.

It appears that John will be leaving the DGS at a time when he feels that he can still pursue another career. He is also leaving the DGS in a condition that, in this outsider's opinion "Works pretty well with everybody doing their work and providing unique DGS services to Delaware's constituents using the latest tools available." This is high praise for geologists.



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Newly Revised USTIF Technical Bulletin 6: Site Characterization Work Plan Documentation

- Lawrence F. Roach, P.G. (Groundwater Sciences Corporation)

On January 27, 2011 the Pennsylvania Underground Storage Tank Indemnification Fund (USTIF) published a revised version of Technical Bulletin 6 addressing the submission of initial site characterization work plans. The bulletin is available online at this link:

http://www.portal.state.pa.us/portal/server.pt/community/offices_organizational_charts/9304/bulletins/606697

USTIF requires the submission of a work plan prior to the initiation of intrusive site characterization and/or corrective action work. Proposed site characterization activities should follow the storage tank and spill prevention program regulations within 25 Pa Code §245.309 and 310. The work plan must be completed and submitted in the requested format, including eight sections, five figures and three appendices.

Although the work plan is requested at the project beginning, nothing in USTIF's request for the work plan should be construed as conflicting with obligations under 25 PA Code §245.306 relating to interim remedial actions, 25 PA Code §245.307 relating to affected or diminished water supplies, or directives from the PaDEP and other public officials. In all cases, the PaDEP remains the regulator of the corrective action process.

There are several noteworthy changes in the new Technical Bulletin. First, specific historical information is requested in Section 1. The receptor evaluation requirements in Section 6 have been streamlined, as there is typically minimal site information available when the initial work plan is prepared. Section 7 has been modified to clearly reflect the information requested about planned monitoring wells and borings. Finally, the instructions for Appendix C (Cost Estimates) acknowledge that the request is preliminary for sites having

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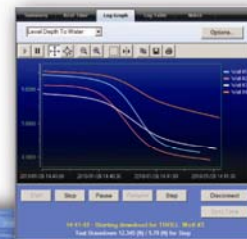
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UPCOMING EVENTS

April 3 - 5, 2011

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www.brownfields2011.org

April 19, 2011

PCPG Board Meeting

Exton, PA

May 17 & 18, 2011

Northeast Shale Gas Symposium

Pittsburgh, PA

(PCPG Members 10% discount)
(see ad on this page)

May 19 & 20, 2011

Basic and Advanced Principals of Groundwater Hydrogeology

Malvern, PA

June 16, 2011

Introduction to Groundwater Geochemistry

Pittsburgh, PA

June 17, 2011

Geochemistry of Remediation

Pittsburgh, PA

July 20, 2011

Surface Geophysics Hydro-Geological & Geotechnical Applications

Harrisburg, PA

July 28, 2011

Environmental Statistics

Monroeville, PA

Don't forget to check the
"Courses & Events" link on
PCPG's [home page](#)
frequently for up to date
information on upcoming
educational opportunities.

PCPG Education Committee Offers Volunteer Opportunities for Members

-- Jennifer L. O'Reilly, P.G. (Education Committee Chairperson)

The PCPG Education Committee is looking for new members! As we push to complete an ambitious course schedule for 2011, the committee has a variety of opportunities for PCPG members to get involved and help to continue to grow our programs. Now that the continuing education requirements are in full swing in Pennsylvania, we are striving to expand upon the variety of technical seminars that we offer and forecast our education schedule for 2012. The time commitment for a committee member is typically one hour per week, and includes the benefit of networking with professionals in the industry, both within and outside of PCPG, and with the PADEP. If you have an interest in becoming involved with the Education Committee, please email me ([Jen O'Reilly E-mail](#)).

The education schedule is packed with a diverse selection of technical seminars in the second quarter of 2011, including a two-day Hydrogeology course on May 19th and 20th in Malvern, and a two-day Groundwater Geochemistry and Geochemistry of Remediation course on June 16th and 17th in Pittsburgh. Looking ahead to the second half of the year, our schedule will include Surface Geophysics, Structural Geology, and additional Act 2 Toolkit courses (Environmental Statistics and Fate & Transport). We will also be expanding our Act 2 Toolkit series to include a seminar on Soil Gas and Vapor Intrusion, and are working with PADEP to compile the course material for this presentation. Look for that new course later in the year.

We hope to see you at one of our upcoming seminars. If you have any questions or suggestions for courses or events, please feel free to email me ([Jen O'Reilly E-mail](#)). For more information or to register for upcoming courses, please link on the "Courses and Events" tab of our [home page](#).

Remote Sensing Course Postponed

The Remote Sensing seminar scheduled to be offered on April 7, 2011 and repeated in July has been postponed due to recent health concerns of our instructor, Dr. Jay Parrish.

We wish Dr. Parrish all the best and look forward to offering this seminar in the future.

The **Northeast Shale Gas Symposium** will be held **May 17 & 18** at The Omni William Penn Hotel in Pittsburgh, PA.

Visit www.NortheastShaleGasSymposium.com for full agenda and registration information.

PCPG members get 10% discount.

Link [HERE](#) for information on the special offer code

*10% off the regular registration fee at the time of registration.



PCPG Annual Meeting Breaks Attendance Record

-- Don Wagner, P.G. (Government Affairs Committee) and Lou Vittorio (PCPG President-elect)

(photographs courtesy of PCPG Communications Committee members Roger Moose, P.G. and Rich Hazenstab, P.G.)

PCPG's Annual Membership Meeting held in Harrisburg on January 20th was a record setting event with over 85 members and guests in attendance. The day was filled with informative presentations, lively discussion, awards, and elections -- all capped with a networking session sponsored by the ALS Laboratory Group and door prizes awarded to several attendees (making a day out of the office all the more worthwhile). Door prizes included \$100 Cabela's Gift Cards, awarded to Lane Schultz, P.G. (of Lane D. Schultz, PC) and Peter Chronowski, P.G. (of Apex Companies, LLC), and free tuition for a future PCPG course, awarded to Rob Hilliard (of Lewis Environmental), Mark Smith, P.G. (of SSM Group, Inc.) and Philip Donmoyer, P.G. (of Alternative Environmental Solutions, Inc.).



Soon-to-be Past-President Jim LaRegina welcomes attendees.

PCPG sincerely thanks out-going President James LaRegina, P.G. (Herbert, Rowland and Grubic, Inc.) for his service and commitment to PCPG during a very strong year for the organization and also offers our thanks



Past-President Jim LaRegina passes the gavel to new President Jeff Leberfinger as President-elect Lou Vittorio looks on.

to out-going Past-President Dave Farrington, P.G. (Brickhouse Environmental). We are also excited to welcome new President Jeffrey Leberfinger, P.G. and President-Elect Louis Vittorio, Jr., P.G. (EarthRes Group, Inc.) in their new executive roles, and are pleased to announce the election of George Hunzeker, P.G. (Letterle & Associates, LLC), Gary Kribbs, P.G. (AEON Geoscience, Inc.), and Ethan Prout, P.G. (Rettew Associates) to the PCPG Board of Directors. Re-elected to the Board were incumbents Kelly Lee Kinkaid, P.G. (Liberty Environmental, Inc.) and Donald Wagner, P.G. (Stevens & Lee, PC). PCPG also offers its sincere gratitude for the commitment and service provided to the organization by outgoing board members Daniel

Erdman, P.G. (Keystone E-Sciences Group, Inc.), Jeffrey Walsh, P.G. (Penn E&R) and Don Zuch, II, P.G. (Hull & Associates, Inc.).

Attendees heard reports from our various committee chairs and learned of recent and upcoming activities of the Communications, Government Affairs and Education Committees from committee chairs, Kinkaid, Wagner and O'Reilly, respectively.



Committee Chairs Don Wagner, Jen O'Reilly and Kelly Kinkaid give their reports to the group.



Thomas Blackburn explains key components of the continuing education requirements.

One of the many informative topics presented at the Annual Meeting included a talk on continuing education requirements presented by Thomas A. Blackburn, Esq. of the State Board of Professional Engineers, Land Surveyors and Geologists. There is a provision to "carry over" up to 12 PDHs earned during the October 2007 to September 2009 licensure period and apply those toward the 24 PDH units required for the October 2009 to September 2011 renewal period. As with all other PDH units, licensees are required to maintain attendance verification records in support of any and all credits claimed for attended activities.

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Jim Shaw and Troy Conrad from PaDEP Central Office discuss new Act 2 and UECA regulations.

The attendees received a timely update on the new Act 2 and UECA changes directly from Troy Conrad and Jim Shaw (straight from the top of DEP's Central Office). Pennsylvania State Geologist George Love, P.G. also provided an update on the activities of the Pennsylvania Geological Survey. In addition, Arnon Garonzik of Vision Quest Management Consulting provided an essential talk on "Business Risk Management for the Environmental Consultant" that was spot-on useful. Over lunch, PCPG BOD members Dan Billman and Valerie Holliday gave a presentation entitled "Gas Shale Occurrence & Impacts in the Delaware River Basin: A Geologic Perspective."

The day's events were well received and member input and feedback from the program was greatly appreciated. We look forward to seeing all of you, and new faces, at our next quarterly meeting scheduled for April 19th in Exton, PA. Watch the website and email blasts for details and on this and other PCPG sponsored events.



Board Members, both current and past, mingle with the crowd.

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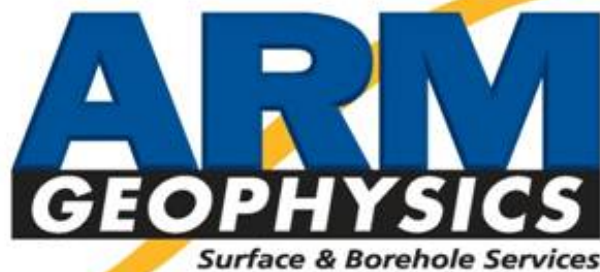
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Newly Revised USTIF Technical Bulletin 6:

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limited information. The purpose of the cost estimate is to facilitate USTIF's overall management of the claim, rather than to create a point of reference against which future invoices will be compared.

The work plan should be submitted electronically in PDF format to USTIF's third-party administrator, ICF, prior to the first routine corrective action invoice for the site. Work plans prepared for USTIF should not be submitted to the PaDEP, except on a case-by-case basis when requested by the PaDEP case manager. USTIF will pay reasonable and necessary costs up to \$5,000 for the preparation of the work plan, regardless of the eventual eligibility determination for the USTIF claim. However, in cases where there may have been a prior release at a site or where investigation and/or remediation is ongoing, the consultant should contact ICF prior to preparing a work plan to confirm eligibility and the best course of action.

USTIF understands the requirement to complete the site characterization and submit a report to PaDEP within 180 days and is committed to reviewing the work plan within 15 business days of receipt by ICF. It is not USTIF's intent to interfere with or direct the routine judgments of the claimant's environmental professional. Rather, it is USTIF's intent that characterization work is:

- 1) Completed in compliance with applicable PaDEP regulations and guidance;
- 2) Well planned and reasoned;
- 3) Targeted towards full site characterization to enable timely, effective and comprehensive correction action; and
- 4) Necessary and reasonable to justify reimbursement for eligible claims.

USTIF's goal is to improve the quality of the corrective action work for which it reimburses claimants, consistent with its fiduciary responsibility.



PCPG Congratulates Newly Licensed Geologists

-- Source: Registration Board for Professional Engineers, Land Surveyors and Geologists

The PCPG would like to extend our congratulations to the following individuals who passed the ASBOG exam and were recently issued a Professional Geologist license in Pennsylvania:

Jessica Lynn Ritenour
Shad Michael Manning
Chad Michael Moose
Brian Charles Stoudt
Thomas Kelly McNerney
James Ian Morrison
Charles Thomas Warino
Russell Lee Losco
Christopher D. Hemingway
Timothy Eugene Crump

Donelle Michele Rzonca
Eric A. Itle
Karin A. Olsen
Joseph Thomas Krupansky
Audra Elizabeth Balson
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Stephanie Anne Warino
Amber B. Granger
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Rock Martin
Lloyd Delton Guss
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Good luck in your geology career!

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GUESS THE MINERAL...

Were you able to guess the mineral on Page 1? It's a photograph of celestine, which is composed of strontium sulfate (SrSO_4), and can be transparent, white, or light blue. Celestine was proposed to be the state mineral back in 1984. The bill ultimately went to the Pennsylvania Senate, but did not get out of the Senate's State Government committee.

Read more about celestine and the interest of making it the state mineral in

[Pennsylvania Geology, v.33, no. 1.](#)

(Photograph by John H. Barnes and obtained from the PA DCNR Topographic and Geologic Survey [website](#))

DEADLINE FOR 2nd QUARTER 2011 NEWSLETTER IS JUNE 1, 2011

For more information, contact our PCPG Newsletter Editor and Communications Committee Chairperson, Kelly Lee Kinkaid, P.G., by [E-mail](#) or by telephone at 610-375-9301.

2011 PCPG MEMBER AD RATES

(Rates are listed as amount per issue)

Size	Commitment:	1x	4x
1/2 Page		\$225	\$150
1/4 Page		\$140	\$95
Business Card (H or V)		\$75	\$50

2011 PCPG NON-MEMBER AD RATES

(Rates are listed as amount per issue)

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