



THE COMPASS

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<u>President's Message</u> By Kevin Killoran, PE

Happy Spring...hopefully everyone had a wonderful & safe winter!

The Chapter's annual "Past-Presidents" dinner meeting was held at Peppers Italian Restaurant in King of Prussia on Wednesday April 17th. The dinner was well attended, and it was great seeing eight Past Presidents at this meeting, including Fred Eidman who served during the 1977-1978 term ... a great reminder of the Chapter's rich history!!

The 2019 Reading & Valley Forge Chapters Annual Golf Outing will take place on May 17th at Turtle Creek Golf Club in Limerick (see attached flyer). The event benefits the scholarship and MATHCOUNTS programs for each chapter. Please spread the word to your coworkers, contacts, family and friends for what will hopefully be our biggest outing yet! If you have any questions, please reach out to Mike Fischer (michaelfischer@comcast.net or 215.205.2130). Even if you don't golf, you can join us for the lunch or volunteer to help run the event.

The Chapter's final event this year will be an awards dinner to acknowledge the achievements for the students from MATHCOUNTS, the science fairs and scholarship winners. This event is planned for the end of May – if interested in attending, please contact me at <u>VFC.PSPE@gmail.com</u> and we will provide additional details for this event.

Interested in getting involved? The Chapter is accepting nominations for Board of Director positions. Currently there are two open Director positions. For additional details, please see me at an upcoming event or send an inquiry to <u>VFC.PSPE@gmail.com</u> and we will provide additional details regarding the open positions or other opportunities to stay involved.

Happy Engineering and hope to see you at an upcoming Chapter event!





VFC Past Presidents

2017-18: Kevin Killoran	1980-81: Art Luthy
2016-17: Mike Fischer	1979-80: Jessee Ring
2015-16: Randy Cleaver	1978-79: Bob Freer
2014-15: Dan Humes	1977-78: Fred Eidman
2013-14: Mike Fischer	1976-77: Otto Gotzsche
2012-13: Randy Cleaver	1975-76: Alan Cohen
2011-12: Chad Camburn	1974-75: Gerald Everz
2010-11: Kristin Norwood	1973-74: Edmund Haigler
2009-10: Karen O'Connell Danko	1972-73: Charles Crowley
2008-09: Tony Dougherty	1971-72: Fred Reichert
2007-08: Tony Dougherty	1970-71: Frank Chaplin
2006-07: Paul Dugan	1969-70: Alfred King
2005-06: Rod Plourde	1968-69: John Pink
2004-05: Mike W. Moore	1967-68: Frank Martin
2003-04: Kurt Leininger	1966-67: Paul Zahn
2002-03: Frank Stanton	1965-66: Bill Guggenheim
2001-02: Frank Stanton	1964-65: George Russell
2000-01: Ken Ede	1963-64: John Lilley
1999-2000: Tom Readinger	1962-63: Dan Driscoll
1998-99: Brian Healy	1961-62: Edward Seiz
1997-98: John Groseck	1960-61: Malcolm Brown
1996-97: Rabindra Mallik	1959-60: Andrew Betz
1995-96: Dan Caramanico	1958-59: Adolf Hopf
1994-95: Rod Barnhart	1957-58: John Fridy
1993-94: Bob Di Domizio	1956-57: Harold Curll
1992-93: Harve Hnatiuk	1955-56: Walt Bornemann
1991-92: Ken Creech	1954-55: Leroy Dangremond
1990-91: Don DeCleene	1953-54: Leroy Dangremond
1989-90: Joe Maida	1952-53: Herbert Reed
1988-89: Brookes Britcher	1951-52: Russ Greulich
1987-88: Stan Kemp	
1986-87: Dave Fleisher	
1985-86: Jim Carroll	
1984-85: John Timbario	
1983-84: Joe Maida	
1982-83: Ross Forman	
1981-82: Edgar Hendler	





Editor's Notes

By Kurt Leininger, PE

Your chapter has had a busy agenda in early 2019, with the MathCounts competition on February 9th at Dock Mennonite Academy and the MontCo and DelVal science fairs in late March and early April. We also enjoyed some interesting membership meetings including a talk on engineering ethics by Frank Stanton (with the Reading Chapter) on January 31st and a talk on the Villanova campus expansion in late February. This latter event continues a series of meetings with engineering students on the Villanova campus, which have been organized by Mike Fischer.

We are pleased to share some short biographical information on your Board members, starting with those printed below. You will be interested in the diversity of our team, which reflects the fact that NSPE/PSPE is the only organization that represents all specialties of the entire engineering profession. Check our future editions for other board members' info.

and raised in the Philadelphia area, earned his B.S. in electrical engineering from Widener University, and currently lives in Bryn Mawr with his wife and two sons. Most of his career was spent with Millennium Engineering, P.C. performing a variety of radio frequency engineering consulting services for clients in the wireless industry before recently moving on to Site Safe. Mike was VFC Treasurer for several years, then VFC President (2013-14, 2016-17).Dan Humes, PEDan Humes is a civil engineer who designs and manages site development projects throughout Southeast Pennsylvania where he grew up. He earned his B.S. in civil engineering from Penn State and a B.A.#rom Lock Haven University in Natural Sciences/Physics (Math Minor). He works for Van Cleef Engineering Associates in Doylestown and has been involved with PSPE since 2008. Dan was VFC President (2014-2015) and long-time MathCounts Coordinator (2011- present). One of his award winning projects is the first Platinum (highest certification) LEED certified Neighborhood Development in the U.S.Lindsay Musselman, PELindsay Musselman is a Change Control Tech Writer for Johnson & Johnson Consumer in Fort Washington, PA, working within External Manufacturing. This involves project management and process improvement at contract facilities manufacturing Tylenol, Motrin, Zyrtec, and Benadryl brands. She worked for Teva and Merck after receiving her B.S. in clemical engineering at Villanova. Lindsay was named as one of NSPE's National Top 10 Young Engineers in 2006. She has been an NSPE/PSPE member since 2000 and was VFC Secretary and our VFC MathCounts Coordinator for several years.Kurt Leininger, PEKurt Leininger is a retired civil/sanitary engineer, having designed municipal wastewater treatment projects in various western states, Wisconsin, and southeast Pennsylvania. He moved to Mal		
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Oregon, and was most recently with BCM Engineers (Division of ATC Group		Oregon, and was most recently with BCM Engineers (Division of ATC Group
Services) in Plymouth Meeting from 2001-2018. He was VFC Treasurer for		Services) in Plymouth Meeting from 2001-2018. He was VFC Treasurer for
several years, President (2003-04), and is now VFC Secretary.		several years, President (2003-04), and is now VFC Secretary.





Note from the Scholarship Committee By Randy Cleaver, PE

The Valley Forge Chapter of PSPE is happy to report the results of our scholarship program for 2019. The chapter is privileged to select two seniors for Drexel University College of Engineering and one senior for Temple University College of Engineering. Drexel University offers \$5000/year for 5 years and Temple University awards a scholarship of \$2000/year for 4 years. This year the committee received 13 applications. Of these applicants, all had the potential to be selected for a scholarship. Using a scoring evaluation system, the committee made the following awards:

- 1) Drexel University: Gina Brown from Phoenixville Area High School studying Bioengineering and Julia Hirs from Bishop Shanahan High School studying chemical engineering.
- 2) Temple University: Brian Whiteford from Bishop Shanahan High School studying civil engineering.

The Valley Forge Chapter is honored to offer these high school graduates scholarships for their pursuit of an engineering career.

News from NSPE & PSPE

• Check this link for an interesting article on the future of STEM, from the April 1st NSPE news email:

https://www.washingtonpost.com/arts-entertainment/2019/03/28/these-diy-experimentsyoutube-might-inspire-you-give-science-try/?noredirect=on&utm_term=.68f9fcc0681e

- Here's a search for several articles on the Oregon judicial ruling in December 2018 on engineering licensure: <u>Oregon Court Ruling on Use of the Title Engineer</u>. Though not the official website, the detailed legal Opinion and Order document can be viewed <u>here</u>.
- This link is from PSPE's January news email:

https://mailchi.mp/pspe/pe-reporter-nspe-defends-pe-licensure-2529033?e=4e6d7c49e8

• Former PSPE President Eric Tappert gave an excellent talk on this several years ago, and here is a recent update to remind us of how engineering licensure became an important part of our careers:

https://boston.curbed.com/2019/1/9/18175555/boston-great-molasses-flood-1919-2019





MATHCOUNTS & Delaware Valley Science Fair



VFC and NSPE Past President Harve Hnatiuk emceeing the countdown round at the MATHCOUNTS Pennsylvania State Competition in Harrisburg in March.



Above are some of the winners selected by the VFC special award judges for the projects they presented at the Delaware Valley Science Fair in early April.





EPA releases new draft WOTUS rule Jacqui Fatka 1 | Feb 14, 2019

The Environmental Protection Agency and the Department of the Army published an official rule in the Federal Register on Feb.14 proposing to define the scope of waters federally regulated under the Clean Water Act (CWA). The proposal is the second step in a comprehensive, two-step process intended to review and revise the definition of the "waters of the U.S." (WOTUS).

This follows several actions by the Trump Administration to overturn a 2015 WOTUS rule finalized by the Obama Administration, which is also held up in several court cases. **Related: EPA reschedules WOTUS public hearing**

The new proposal opens up a 60-day comment period, requiring comments to be received on or before April 15, 2019. The proposed WOTUS definition revision is intended to increase CWA program predictability and consistency by increasing clarity as to the scope of the waters federally regulated under CWA, the agencies said in the rule.

Under the proposed rule, a tributary is defined as a river, stream or similar naturally occurring surface water channel that contributes perennial or intermittent flow to a traditional navigable water or territorial sea in a typical year either directly or indirectly. **Related: EPA proposes new WOTUS rule**

"Ditches are generally proposed not to be 'waters of the United States' unless they meet certain criteria, such as functioning as traditional navigable waters, if they are constructed in a tributary and also satisfy the conditions of the proposed 'tributary' definition or if they are constructed in an adjacent wetland and also satisfy the conditions of the proposed 'tributary' definition," the rule explained.

The rule also notes that waters of the U.S. do not include: features that flow only in response to precipitation; groundwater, including groundwater draining through subsurface drainage systems; certain ditches; prior converted cropland, and artificially irrigated areas that would revert to upland if artificial irrigation ceases.

The rule notes that the agencies are proposing to clarify and define the term "prior converted cropland," which has been excluded from the WOTUS definition since 1993 and would continue to be excluded. Under the proposed rule, "prior converted cropland is considered abandoned if it is not used for, or in support of, agricultural purposes at least once in the immediately preceding five years. Agricultural purposes include land use that makes the use of production of an agricultural product possible, including, but not limited to, grazing and haying. This proposed rule would also clarify that cropland that is left idle or fallow for conservation or agricultural purposes for any period of time remains in agricultural use and, therefore, maintains the prior converted cropland exclusion." Artificial lakes and ponds constructed in upland areas are also not included, such as water storage reservoirs, farm and stock watering ponds, settling basins and log cleaning ponds.

Zippy Duvall, president of the American Farm Bureau Federation, said the release of a new draft





clean water rule is a major step toward fair and understandable water regulation on America's farms and ranches and other working lands.

"The previous rule would have treated much of the landscape as though it were water itself. That wasn't just confusing but also illegal, which is why so many federal courts blocked its implementation," Duvall said in a statement.

"We haven't yet examined every word of today's proposal, but even a quick look shows many of the previous rule's worst problems are on their way out. We will examine this rule in further detail in the coming days and look forward to a thorough discussion over the next few months," Duvall added.

Miscellaneous Items of Interest

• Board member Lindsay Musselman recommends for those Twitter users out there that you follow @MachinePix. Every couple of days they post a short video of a cool machine in action. The latest ones were a peeler lathe turning a tree into plywood veneer, high precision press brake tools, and a modular concert hall being rearranged automatically. Below is an interesting article about trends in OTC pharmaceutical packaging. Some of the topics covered are changing market dynamics, convenience, sustainability, and counterfeiting.

https://www.pharmapackeurope.com/visit/news-and-updates/trends-otc-pharma-packaging

• Here's a bit of older news which you may already know about but still interesting as a final chapter of our country's largest single infrastructure project. As we engineers sometimes have to say, "A camel is a horse designed by a committee".

https://www.bloomberg.com/news/articles/2018-08-20/after-60-years-i-95-is-complete





Article of the Month

The Accountable Leader By: Anne Weisbord aweisbord@awlearningconsultants.com

"I would have had that ready for the accountant if Abigail had given me the information last week." "We didn't pass that inspection because we had a lot of team members out last quarter." "The leak didn't look too bad, and I thought maintenance would take care of it, so I didn't say anything. "I didn't write her up for her many latenesses because I thought she would remedy that herself."

The examples above are what an accountable leader would NOT say or do. As an accountable leader, you willingly take responsibility for the outcomes of your decisions, your behaviors, and your actions. You do not blame others or external circumstances. You assume ownership for the performance of your team. You do not play the victim role. Accountability means fulfilling your commitments and being answerable for your own actions. There are no excuses, no blame. **Blaming others for results is not being accountable for your work.**

Very often, responsibility and accountability are confused. We are given responsibility. It could be a task, a particular role, a process. It describes what you are required to do in a job. Accountability is a character trait, a value. It is about being willing to take ownership for everything that happens as a result of actions that were taken—your own or those of your staff. If you know your American history, you might remember that President Truman popularized the phrase "The buck stops here." He used it to mean that he alone accepted responsibility for the way the country was governed under his administration. An accountable leader takes the responsibility given to her/him.

So, when Ed, a senior manager in an engineering firm, missed the deadline for an important deliverable his team was supposed to have achieved, he proved himself to be an accountable leader. Instead of pointing fingers or throwing his team under the bus because they failed to meet their goal, he took responsibility for the missed deadline. Later, he spoke to his staff, and together they came up with remedies that they could implement that would keep them from not repeating this error. Accountable leaders seek solutions, not blame.

Accountability is key to the efficiency and accuracy of the work produced by your team. You must hold them accountable for their work. If you do nothing when, for example, team members are late for work, speak rudely, or do not complete their tasks, you are sending a message that these behaviors aren't so important. The loyal few who pick up the burden of doing the work may begin to resent the irresponsible team members and you. Not only could you be creating an environment of low morale, but your dedicated employees may decide to leave.

You serve as a role model for your team. Prove to them that you are accountable. Behave in a manner that demonstrates how important accountability is, and reinforce that you require it of each member of your team. Make it a value. Praise those who are accountable for their actions and set consequences for those are not.





Make sure that you clearly define exactly what is expected from each team member and that you have set a time line for each goal. Communicate that you need to be kept informed of progress (or lack of) so that you can help find solutions to ensure completion of the task. Acknowledge that everyone makes mistakes, but that admitting them and focusing on creating solutions is what you expect.

By encouraging accountability in your department and your organization, you will have a more engaged team, lower employee turnover, higher morale, and increased productivity. It's worth the effort.

PSPE Reading/Valley Forge Annual Golf Outing

Friday, May 17th, 2019 1:00 PM Sharp (Shotgun Start)

Turtle Creek Golf Course Registration at 11:30 am / 303 W Ridge Pike, Limerick PA

www.turtlecreekgolf.com

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- Opportunity to present sponsored hole prize(s)

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Popular giveaways for goodie bags and gift cards for contests are always appreciated. We will gladly provide sponsorship opportunities in exchange for such donations. Sponsorship levels will vary based on the total of the value of item(s) donated. Please contact Michael Fischer if you are interested in making any kind of donation.

All sponsors are encouraged to golf and enjoy the camaraderie in this great event!

Questions?

Contact Michael Fischer, P.E. michaelfischer@comcast.net 215.205.2130 All proceeds benefit the Chapters' Scholarship Funds and MATHCOUNTS programming



Pennsylvania Society of Professional Engineers

PSPE Reading/Valley Forge Annual Golf Outing

Friday, May 17th, 2019 1:00 PM Sharp (Shotgun Start)

Turtle Creek Golf Course Registration at 11:30 am / Buffet Lunch at 12:00 pm

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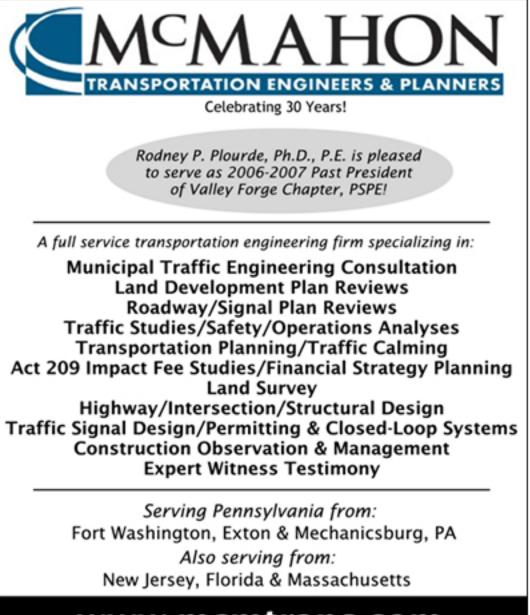
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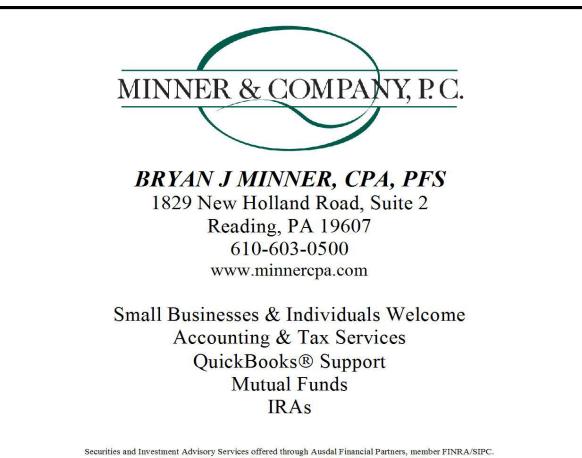




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