



United States Public Health Service

MACHINATORES VITAE

Engineer Community Newsletter

From the Chief Engineer Officer



Randall J.F. Gardner, P.E.
Rear Admiral, US Public Health Service
Assistant Surgeon General

Spring 2017

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Commitment, Curiosity, Confidence

We have all made a commitment to meeting the mission of the Public Health Service to promote and protect the health and safety of the people of our Nation. Some of us by our commitment in uniform and others as a commitment to our jobs and profession. We sometimes waver in commitment as we experience new managers, supervisors, and leaders or as other non-work related commitments compete for our time and efforts. It's important for us to understand how the daily level of commitment we have impacts our missions. Commitment can also be applied to the three public health initiatives of the Surgeon General: addiction, emotional well-being, and nutrition which may affect the public's ability to commit and stay engaged with work and relationships. We must be aware of what we are asked to commit to and the impact we can have in our profession. As I reflect on my career, the level of commitment has made a difference on whatever I was doing even when it didn't produce the fully desired outcome I wanted. We should help each other to understand and develop levels of commitment that produces efforts and results of which we can be proud.

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Curiosity can be applied to optimism or opportunity. I would say always stay curious. Spend time understanding how things work and how to support your management and colleagues. I became an engineer because I was curious about how things worked. As a child, I took things apart and learned how to repair things that were broken. Parental oversight taught me that I should check first before I took things apart. If my parents asked me to fix something or take it apart that was even better. I was committed and curious.

Confidence is a funny thing. Have you ever seen a super confident person that was not arrogant and wonder why? Talking about emotional well-being; to me, that confident person seems to be on the right track. You are the only one that can do something about your confidence. Just remember we are counting on you to be confident. How does it make you feel if someone gives you an answer or response and they are clearly not convinced of what they are advising? It's uncomfortable at best to make a decision with that kind of input. I'm not talking about confidence when you are unsure. You also need to be confident enough to say you are unsure or need help or more information.

If we can all be more curious, commit to the cause, and have confidence in each other and ourselves we will be even better than we are.

RADM Randall J.F. Gardner, P.E.

If you have any questions or comments related to the Engineering Category or EPAC activities, feel free to contact any of the following EPAC members.

EPAC	Point of Contact	Agency	e-mail
Chair	CDR Kurt Kesteloot	NPS	Kurt_Kesteloot@nps.gov
Subcommittees			
Rules (Chair-Elect)	CAPT David Harvey	IHS	David.Harvey@ihs.gov
Awards	LCDR Jitendra Virani	FDA	jitendra.virani@fda.hhs.gov
Career Development	CDR Mark Jackson	CDC	Mjackson5@cdc.gov
Events	CDR Frank Chua	IHS	Francis.Chua@ihs.gov
Information	CDR Josh Simms	FDA	Joshua.Simms@fda.hhs.gov
Mentoring	LCDR Jennifer Stevenson	FDA	Jennifer.Stevenson@fda.hhs.gov
Public Health Engineering Practices	LCDR Julia Kane	NPS	Julia_Kane@nps.gov
Readiness	LCDR Quynh Nguyen	FDA	Quynht.Nguyen@fda.hhs.gov
Recruitment and Retention	CAPT David Harvey	IHS	David.Harvey@ihs.gov
Executive Secretary	LT Jessica Sharpe	NPS	Jessica_Sharpe@nps.gov
EPAC Website			https://dcp.psc.gov/osg/engineer/

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2017 EPAC Chair Update

CDR Kurt Kesteloot, MSE, MPH, PE, BCEE



Public Health Service Engineers and Architects, I am humbled and honored to be given the opportunity to serve as the 2017 EPAC Chair. With your assistance I hope we can continue to grow our category and keep everyone apprised of the great things we all have to offer our nation.

Please help me thank our outgoing EPAC voting members: CDR Kim Piermatteo (FDA), CDR Jill Hammond (FDA), CDR Kevin Bingley (IHS), CDR Tanya Davis (IHS), and CDR James Kohler (EPA). Their commitment to our category by volunteering time and serving as a leader to others is greatly appreciated.

Please help me in welcoming five new EPAC voting members: CDR John Kathol (IHS), LCDR Jitendra Virani (FDA), LCDR Abbas Bandukwala (FDA), LCDR Diana Wong (CMS) and LCDR Julia Kane (NPS). We look forward to their service in helping the EPAC provide information and guidance to all engineers, especially those we represent in our own agencies. We are very fortunate to also have two returning EPAC voting members, LCDR Matthew Hunt (NIH) and LCDR Shane Deckert (IHS). Please help me in thanking them for their continued leadership and service to the EPAC as they begin their final three-year term.

Subcommittees have either identified their initiatives or they are diligently working on numerous issues including website migration, recruitment, readiness, mentoring, special events, award recognitions, and many more. If you are on the EPAC and have not done so already, please feel free to reach out to your fellow agency engineers and share this message along with other pieces of helpful information.

We are all very busy with work and our personal lives. I hope to achieve a balanced level of communication with everyone. If you feel you are receiving too much or too little information, please feel free to provide comments and/or rec-

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ommendations. I will try to provide updates a minimum of every couple weeks and keep messages as efficient and effective as possible. There are monthly Surgeon General leadership calls and PAC Chairs calls. If you have an item that you feel needs to be addressed or shared, please let me know so I can forward the appropriate information to others.

If you every have any questions about the engineer category and what the EPAC roles are, please visit the following page for by-laws and charter information: <https://dcp.psc.gov/osg/engineer/charter-by-laws.aspx>

Thank you again for trusting in me to serve as the 2017 EPAC Chair. I hope that we can continue to lead our nation in engineering and public health! Please do not hesitate to contact me at kurt_kesteloot@nps.gov with any questions, comments, concerns, or suggestions. If I fail to respond within a couple days and you have not received an out of office message, please send another friendly reminder. *Machinatores Vitae!* [Return to Top](#)

Getting your Work Published: Peer Reviewed Articles

LCDR Deborah V.L. Hirst and CDR Tanya Davis

In the Fall 2016 newsletter article, "How to Get Your Work Published: Non-Peer Reviewed Articles," we covered why non-peer reviewed articles are a good first step for engineers who are not in research-based jobs. Engineers in research-based positions may frequently publish in peer-reviewed journals. However, with guidance and the right topic, a USPHS engineer regardless of the position can publish in a peer-reviewed journal. USPHS engineers' roles are endless, ranging from deployments to plant inspections to conducting laboratory experiments to designing potable drinking water systems. All of these duties can make a great article in a peer-reviewed journal.

Peer Reviewed Journals

A peer-reviewed article is one that has been examined by people with credentials in the article's field of study before it is published.¹ The advantage of publishing your work in a peer-reviewed journal is earning notability in your field of work. Your manuscript will be read by people with similar jobs and if you publish quite a bit in a particular area, you may be deemed an expert.^{2,3} The disadvantage is the process is not as expedient as publishing in a non-peer reviewed journal. The submission and publishing processes can vary depend-

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ing on the journal.³ Your article may have to undergo several revisions and reviews before a journal will agree to publish it. This process could take a couple of months.

Process

Once you decide what to write about, the next step is finding a journal that will publish your manuscript. There are several publishing databases, such as Web of Knowledge™ (or Web of Science) and OMICS International,^{4,5} that will allow you to search by category, subject, or journal title. The majority of the databases also allow you to search by impact factor in a particular category. The impact factor measures the rate an article in a journal has been cited.⁶ A high impact factor may give an indication of how popular the journal is in a particular field of study.⁷

If you have identified a journal and are still unsure if the editor will accept your manuscript's subject matter, it is perfectly acceptable to ask the editor if your paper is suitable for their journal. Next, you can begin writing your manuscript. It is very important to follow the journal's guide for authors. This guide will tell you the word limit of the document, the sections required, table and figure formats, and how to cite references. If you are still unsure about formatting, especially with reference citations, reviewing a recent publication in the journal may help you.

When you have finished writing your manuscript, ask your peers (or co-authors) and supervisor to review it. Depending on your Agency, the manuscript may have to undergo another layer of review before submission to the journal and include a disclaimer. Pay close attention to the instructions for journal submission, which should be outlined in the author's guide, so you only have to do it once. Once you have submitted the manuscript to the journal, it will go to the editor for review. If the editor likes the content, it will then be peer-reviewed by subject matter experts. Some journals allow you to choose the reviewers and even identify people who you do not wish to review your paper because of conflicts of interest or other reasons.

Next Step

Your manuscript has been written, reviewed, and submitted to the journal. Now what? Be patient. The review process can take months but remember every journal is different and some may be more expedient than others. You may also have to revise the paper's content, change a figure/table, or answer questions

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the reviewers may have. You may even receive a rejection notice from the journal. If this happens, review why the journal rejected your manuscript and make the necessary changes to submit to another journal. Whatever the delay may be, remain patient knowing your manuscript will eventually be published.

Helpful Tips

As stated in the Fall 2016 article, give credit where credit is due. Cite ideas, phrases, figures, tables, and conversations. A civil engineering professor at Virginia Tech published a manuscript on scientific misconduct, such as fabrication or plagiarism.⁸ Scientific misconduct can cost your agency thousands of dollars plus ruin your reputation as an officer and author.

Make an outline featuring the journal's required sections. Outlines are helpful when writing because they keep you from drifting away from the topic.

Take a writing class. There are even classes specifically for engineers! There are in-person and online classes. One misconception about the field of engineering is we do not write as much as other professions. However, engineers write a lot! It is mostly technical but learning to write effectively is important to the success of your engineering career.^{9,10}

Do not hesitate to ask for help from co-workers, supervisors, or other subject matter experts.

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- 1 <http://hsl.lib.umn.edu/biomed/help/identifying-peer-review-journals>
 - 2 <http://genomesunzipped.org/2011/07/why-publish-science-in-peer-reviewed-journals.php>
 - 3 <http://www.cc.gatech.edu/~ellendo/peerreview.pdf>
 - 4 <https://access.webofknowledge.com/>
 - 5 <https://www.omicsonline.org/>
 - 6 <http://www.sciencegateway.org/impact/>
 - 7 <http://jifactor.com/about.asp>
 - 8 Edwards and Roy [2016]. Academic Research in the 21st Century: Maintaining Scientific Integrity in a Climate of Perverse Incentives and Hypercompetition. *Environ Eng Sci* 00(00): 1-11.
 - 9 <http://writing.colostate.edu/collections/engineering/writers.cfm>
 - 10 <https://www.asme.org/career-education/articles/business-writing/how-engineers-can-improve-technical-writing>

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2017 Engineer Category Awards Ceremony

CDR Alex Dailey



RADM Mark Calkins speaking at the 2017 Engineer Category Awards Ceremony

The U.S. Public Health Service (USPHS) Engineer Category celebrated National Engineers Week by recognizing several outstanding engineers at its annual awards ceremony on Thursday, February 16, 2017. The event was hosted by the Indian Health Service (IHS) at the 5600 Fishers Lane Building in Rockville, Maryland. CDR Kurt Kesteloot, 2016-2017 EPAC Chair, served as Master of Ceremony and provided opening remarks on his career development experience. RADM Randall J.F. Gardner, Chief Professional Officer of the Engineer Category, presented the awards and highlighted the role of PHS engineers in accomplishing our mission of protecting, promoting, and advancing the health and safety of our Nation. RADM Mark A. Calkins, Director of the IHS Division of Sanitation Facilities Construction, gave the keynote address and spoke about his influences as a leader and provided recommendations on taking advantage of leadership opportunities.

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RADM Gardner and CDR Kesteloot presented this year's awards to the following recipients:

- | | |
|---------------------|--|
| CDR Kurt Kesteloot | PHS Engineer of the Year and
NPS Engineer of the Year |
| CAPT Frank B. Behan | EPA Engineer of the Year |
| CAPT Steven Raynor | IHS Engineer of the Year |
| Mr. Babak Farahpour | NIH Engineer of the Year |
| CDR Jill Hammond | PHS Engineer Responder of the Year |
| LT Melissa DeVera | RADM Jerrold M. Michael Award |



2017 Engineer Category Awardees with RADM Gardner and RADM Chris Buchanan, Acting Director of the Indian Health Service (From Left to Right): RADM Randall Gardner, CDR Kurt Kesteloot, CAPT Steven Raynor, CAPT Frank Behan, LT Melissa DeVera, CDR Jill Hammond, Mr. Babak Farahpour and RADM Chris Buchanan

Mr. Farahpour, CAPT Raynor, and CDR Kesteloot also represented their respective agencies at the Federal Engineer of the Year (FEYA) Award Ceremony sponsored by the National Society of Professional Engineers. The 2017 FEYA Ceremony was held the next day at the National Press Club in Washington, DC. Maj. General Timothy S. Green, Air Force Director of Civil Engineers, delivered the keynote address.

The Awards Ceremony Planning Committee was comprised of the following members: CAPTs David Harvey, Carol Rogers, James Simpson; CDRs Alex Dailey, Erica Sorrelhorse, Kurt Kesteloot; LT Michael Simpson, Aretta Hubbard, Char Romero, and Tracy Hackett. Links to additional photographs from the event will be available on the DC COA website: <http://www.dccoa.org>



Engineers Week Celebration - U.S. Environmental Protection Agency and National Park Service

The U.S. Environmental Protection Agency (EPA) and National Park Service (NPS) gathered to celebrate engineering on Friday, February 17, 2017 at the EPA William Jefferson Clinton East building in Washington, DC. The goal of the event was for the EPA, NPS, and U.S. Public Health Service (USPHS) to celebrate the



Back Row (left to right): CAPT David Harvey (IHS), CDR Kurt Kestoolot (NPS), LT Andrew Wang (NIH), LCDR Leo Gumapas (NIH), CDR Samuel Russell (EPA), CAPT Frank Behan (EPA), and CAPT Nathan Tatum (NPS). Front Row (left to right): CDR Stacey Yonce (EPA), CAPT Nelson Mix (EPA), Mr. Louis Rowe (NPS), LCDR Muniz-Ortiz (EPA- SCI category), RADM Randall J.F. Gardner (IHS), CAPT Sara Newman (NPS- SCI category), CDR Jennifer Proctor (NPS), and LCDR Praveen K.C. (EPA) (Photo taken by CDR James Kohler, EPA).

accomplishments and increase awareness of the engineering profession. After a welcome and introductions by CAPT Nelson Mix (EPA's Representative to the Surgeon General's Policy Advisory Council) the audience heard remarks from Mr. Louis Rowe (Deputy Associate Director, Visitor and Resource Protection, National Park Service). Following Mr. Rowe, the audience then heard from Dr. Michael H. Shapiro, SES, (Acting Assistant Administrator, Office of Water, USEPA and an engineer). After Dr. Shapiro's remarks, RADM Randall J.F. Gardner spoke and recognized the USPHS EPA and NPS Engineer of the Year (EOY) awardees CAPT Frank Behan and CDR Kurt Kestoolot, respectively. CAPT Mix made the closing remarks and led engineers on a tour of the EPA's Emergency Operations Center. Several attendees walked to the National Press Club for 2017 Federal Engineer of the Year Award (FEYA) Luncheon. Event planning was led by CDR Sam Russell (EPA), CAPT Nelson Mix (EPA) and CAPT Nate Tatum (NPS). CDR James Kohler (EPA) helped plan and was photographer, LCDR Praveen K.C. (EPA) coordinated room setup and served as aide-de-camp, and CDR Stacey

accomplishments and increase awareness of the engineering profession. After a welcome and introductions by CAPT Nelson Mix (EPA's Representative to the Surgeon General's Policy Advisory Council) the audience heard remarks from Mr. Louis Rowe (Deputy Associate Director, Visitor and Resource Protection, National Park Service). Following Mr. Rowe, the audience then heard from Dr. Michael H. Shapiro, SES, (Acting Assistant Administrator, Office of Water,

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Yonce (EPA) printed programs. CAPT Carol Rogers (IHS) was also instrumental in coordinating the event. All speaking points and photos were uploaded to the EPA's PHS SharePoint site for those at EPA who couldn't attend.

The following individuals were also recognized at the February 17, 2017 Engineering Celebration:

EPA Engineer Responder of the Year Nomination

CDR David Gwisdalla, was deployed for the Flint Water Crises mission from Feb 6th to 21st, 2016. The Flint Water Crises is still very important to EPA, and recently received \$100M in funding. More information about Flint can be found at <https://www.epa.gov/flint>.

2016 PHS Honor Awards Presented to PHS Engineers at NPS

AM – CDR Kurt Kesteloot, National Park Service Omaha, NE for projects previous cited in the narrative for the NPS EOY award.

AM – CDR Sam Russell, National Park Service, Washington, DC.

2016 PHS Honor Awards Presented to PHS Engineers at EPA

AM – CDR Stacey Yonce, EPA Office of Emergency Management for leading rule making and Executive Order implantation related to the Clean Air Act and the Emergency Planning Community Right to Know Act. CDR Yonce serves as the Alternate Rep. to the Surgeon General's Policy Advisory Council.

CM - LCDR Deborah P. Cox, EPA Region 4 Atlanta, Remedial Project Manager in the Superfund Program, for sustained outstanding leadership and dedication to obtain approval to cease Five Year Reviews at two Superfund Sites.

CM - CDR David A. Gwisdalla, EPA Region 8 Denver for his leadership of the EPA's National Enforcement Initiative for Sanitary Sewer Systems.

CM - CAPT Jennifer Mosser, EPA Office of Air and Radiation, Washington, DC for consolidating mobile radiation laboratories. These labs were originally commissioned in the 1960s by PHS and transitioned to the EPA in 1970.

CM - LCDR Brian Bearden, for his outstanding leadership and sustained, high quality while assigned to the Commonwealth of the Northern Mariana Islands ("CNMI"), Commonwealth Utilities Corporation ("CUC") through the EPA Region 9, San Francisco.

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MSM - CAPT John Cardarelli, EPA Office of Emergency Management, Cincinnati, for accomplishments in the field of radiological remote-sensing. Between 2008 and 2015 his numerous activities in this field have resulted in providing the EPA with the most advanced radiological remote-sensing system in the United States.

MSM - CAPT Nelson Mix, EPA Office of Water, Washington, DC for leadership, important achievement, and notable accomplishment in the field of Water Security from 2008 to 2015. CAPT Nelson Mix is also one of five finalists for the JOAG's Carmona Inspiration Award. CAPT Mix was also recently notified his peer reviewed article, *"Improving Water System Security and Resiliency: Advanced Metering Infrastructure"* was selected as winner of the American Water Works Association Distribution and Plant Operation Division Best Paper Award. He will receive a plaque at the AWWA Annual Conference and Exposition in Philadelphia in June.

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Hard Work:

Reflections by CDR Kurt Kesteloot 2017 USPHS Engineer of the Year



CDR Kurt Kesteloot and Family

Many of us work countless hours of overtime or "off hours" and wonder if anyone is noticing. Many likely notice; however, they may not know the intricacies of what you are doing. In my experience, working hard and having good supervisors, co-workers, employees, friends, and family help make it possible for recognition and career progression. Occasionally, you may have to assist in writing information about yourself to your supporters; however, good documentation along the way helps make that easier.

If you have spare time, getting involved with the Engineer Professional Advisory Committee (EPAC) is also very rewarding.

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My active duty career began in the Reserve Officers' Training Corps (ROTC) during college. As I was contemplating whether to stay in the Army National Guard or go into active duty in the Army, I was introduced to the United States Public Health Service (USPHS) at a career fair and discovered the many intriguing career opportunities for an engineer interested in safe drinking water and wastewater treatment. The decision was easy to try to become a commissioned officer and it continues to be an honor and privilege to serve in the USPHS.

I did not want to take a position far from friends and family; however, moving from Minnesota to Arizona to take my first position with the Indian Health Service (IHS) proved to be an excellent opportunity. Even if you have a particular geographic preference, I recommend starting your career in an unfamiliar location (isolated hardship highly encouraged). Geographic mobility helps new officers experience more of what the USPHS has to offer and helps in making informed career decisions down the road. When you find yourself in a different geographic region and you are looking for a family, the EPAC and Commissioned Officers Association (COA) are great at helping fill outside activity hours. EPAC and COA can offer camaraderie and professional contacts to help find opportunities to continue to grow as an officer in the USPHS.

I have found that in working hard in my assigned positions and participating in organizations (such as EPAC, COA, SAME, etc.), I have had many opportunities to show my abilities and grow professionally. One of the most difficult challenges for me has been learning to prioritize and balance my work and personal life. There are several trainings out there that may help. Ultimately, I have learned to try my best to do great work and enjoy it as much as possible. I also find that those same people that support your work can be great sources of feedback to help evaluate your performance. Share your experiences with them in conversation and consider drafting your own write-up of accomplishments for their review. If they concur, they will likely be happy to help nominate you for recognition. You do not have to work countless hours to be doing great things; however, if you find yourself doing so, I also encourage you to take the time to document your accomplishments and help to highlight the contributions that USPHS engineers make within each of our agencies.

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Society of American Military Engineers - USPHS at George Washington University



RADM Gardner addressing students at George Washington University
(Photo taken by CAPT Nelson Mix)

The U.S. Public Health Service (USPHS) and members of the Society of American Military Engineers (SAME) gathered to mentor and recruit student engineers on Friday, March 31, 2017 at George Washington University in Washington, DC. The goal of the event was for the USPHS and Washington DC Post of SAME to increase awareness of career possibilities and share knowledge. After a welcome and introductions by Mr. Philios Angelides (President, Alpha Corporation), RADM Randall J.F. Gardner addressed the students of his alma mater about the USPHS. Other industry leaders and members of the Washington, DC Post were present and also shared their perspectives about the engineering profession. Topics discussed included scholarships, internships, graduate school, professional development, and specific projects. Refreshments were served at the end of the two-hour event. The GWU Student Chapter of SAME is in its tenth year of operation and serves as one of three student chapters of the DC Post.

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Society of American Military Engineers Golden Eagle Dinner

On March 8th, 2017 the Society of American Military Engineers (SAME) held their Golden Eagle Dinner. The dinner is an annual event that brings together engineers from all the military services and honors outstanding engineering leaders. Attending the event were RADM Gardner, CAPT Mix, CAPT Simpson, LCDR Gumapas, LCDR K.C., and LT Simpson. The PHS Brass Ensemble provided entertainment for the dinner. The small group represented three PHS categories and included three engineers: CDR Cunningham, LCDR Miller and LCDR Coburn. After the dinner, honorees spoke about their service and accomplishments which spanned decades and provided insights into their outstanding service. The entire evening gave officers the chance to mingle between services, speak with representatives of engineering firms, meet the engineering chiefs of the other military services, and learn about potential opportunities for careers in engineering.



PHS Brass Ensemble provided entertainment



From Left to Right: CAPT Simpson, LCDR Gumapas, CAPT Mix, RADM Gardner, LCDR K.C., and LT Simpson

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NIOSH Celebrates National Engineers Week 2017

LCDR Deborah V.L. Hirst and Trudi McCleery



From left to right, Dylan Neu, Trudi McCleery, LCDR Deborah Hirst, and the Winton Woods High School's PLTW class.

In celebration of National Engineers Week 2017, the Centers for Disease Control and Prevention's National Institute for Occupational Safety and Health (NIOSH) visited Winton Woods High School's Project Lead the Way (PLTW) engineering class in Cincinnati, Ohio. PLTW is the leading provider of rigorous and innovative Science, Technology, Engineering, and Mathematics (STEM) education curricular programs used in middle and high schools across the United States. Over 200 high schools in the United States have adopted this STEM program to introduce high school students to engineering in order to increase the number and quality of engineers and biomedical science students graduating from colleges and universities in the country. PLTW's high school curriculum for engineering and biomedical sciences is a comprehensive four-year program. Each high school's PLTW program is overseen by a professional advisory board. LCDR Hirst has served on the Winton Woods PLTW advisory board since 2010.

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LCDR Hirst, along with NIOSH civil service colleagues Dylan Neu and Trudi McCleery, emphasized the importance of using engineering controls to protect workers. LCDR Hirst focused on engineering controls in artificial flavorings and hazardous drug research. She also talked about construction and water research since the PLTW curriculum is currently focused on civil engineering. Mr. Neu talked about his work with the NIOSH test ambulance including improved ventilation and ultraviolet germicidal irradiation. The PLTW class was able to see the ambulance and the engineering controls Mr. Neu had mentioned during his presentation. Ms. McCleery gave an overview of NIOSH and projects within the Engineering and Physical Hazards Branch.

NIOSH employs nearly 250 engineers and engineering technicians who identify, evaluate, develop, and implement engineering control technology to prevent occupational disease and injury. Through laboratory and field study, NIOSH engineers solve problems with innovative ideas for many industrial sectors including manufacturing, construction, mining, and healthcare. Many of these solutions are adopted by industry, saving lives and improving the health of American workers.

To learn more about NIOSH and the NIOSH Engineering Control program, visit the Engineering Controls resource page at <https://www.cdc.gov/niosh/engcontrols>.



NIOSH group photo (Photo courtesy of NIOSH)



New Engineer Officers

The EPAC would like to acknowledge the following engineers who have recently become Commissioned Officers. The EPAC welcomes each of you and hopes you will enjoy a long and prosperous career in the PHS.

Rank	Name	OPDIV	City	State
LT	David Wilkinson	FDA	Boca Raton	FL
LTJG	Patrick Fox	IHS	Pawnee	OK
LTJG	Kevin Ulrich	IHS	Anchorage	AK
LT	Louis Bernasconi	IHS	Sparks	NV
LT	Garrett Chun	Interior	El Portal	CA
LT	Jacob Dyer	FDA	Harrisburg	PA
LTJG	Robert Trujillo	IHS	Mescalero	NM
LTJG	Kim Eisberg	IHS	Anchorage	AK
LT	Michael Shahan	CDC	Pittsburgh	PA
LT	Christopher Mercer	IHS	Anchorage	AK
LT	Ulaleya Blake	IHS	Tuba City	AZ
LT	Michael Wandersee	IHS	Rosebud	SD
LTJG	Kevin Khuu	FDA	Silver Spring	MD
LTJG	Adam Ramos	IHS	Redding	CA
LT	David Walker	IHS	Winnebago	NE
LT	Lorenzo Santana	IHS	Whiteriver	AZ
LTJG	Matthew Laforest	IHS	Ashland	WI
LT	Mary Millner	FDA	Nashville	TN
LT	Hanniebey Wiyor	FDA	Silver Spring	MD
LT	Jogy George	FDA	Parsippany	NJ
LT	Christian Parra	FDA	Jamaica	NY
LTJG	James Courtney	IHS	Billings	MT



Fair Winds and Following Seas

The EPAC would also like to recognize the engineer officers who have recently retired from Commissioned Corps service. The EPAC sincerely appreciates your leadership and dedication to the mission of PHS engineers.

Rank	Name	OPDIV
CDR	Stephen Christopher	IHS
CAPT	Edward Lohr	IHS
CAPT	Rick Rivers	IHS
CAPT	Domenic Veneziano	FDA
CAPT	David Shoultz	IHS
CAPT	Andrew Zajac	FDA
CDR	Daniel Tompkins	IHS
CDR	Delrey Pearson	IHS
CAPT	Michael Jensen	IHS
CAPT	Gregory Robinson	Interior
CDR	Thomas Hammack	IHS
CDR	Mark Burke	PSC
CAPT	Meredith Bond	Interior
CAPT	Robert Lorenz	IHS

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Dear Readers,

Machinators Vitae (Engineering for Life) is a publication of the EPAC, but we need help in bringing you the information and stories that you want to read. Please consider submitting an article for an upcoming issue or let us know when you or a colleague have reached a milestone, been recognized for an accomplishment, or have an experience to share. If you are an accomplished writer, send something along that is already polished. If you don't feel like a Hemingway or Dickinson, just send enough detail so the writing team can take hold of it and build the story for you.

The writing staff can only see a bit of the big world that is public health engineering. There are numerous accomplishments even within our readership that remain unknown except in the relatively small circles around you. If you have not presented at a national meeting, the likelihood is that no one outside of your agency, or possibly even Office, ever heard about the project that you nearly exhausted yourself completing. Here is your chance to shine!

All ideas are welcomed. Remember that we do not have to solely focus on work going on within the PHS. Let us know if you hear of new technologies or applications, or just find an interesting story from the outside world. The rule of thumb is that if you as an engineer are interested in it, then others will be too!

Send your thoughts, suggestions, or a brief synopsis of a proposed article to the newsletter coordinator, LCDR Jason Petersen at jason.petersen@ihs.gov.

Thank you,

The Newsletter Team
EPAC Information Subcommittee

Machinators Vitae is published twice annually and posted on the USPHS Engineer Professional Advisory Committee website. The deadline for submitting articles for the **Fall 2017** edition is **August 31, 2017**.