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### **New Year's Wishes from ETC**

All of us at Energetics Technology Center look forward to a bright and productive 2018. As we ring in the New Year, we proudly announce a new 3-year \$5M award to support Microelectromechanical Systems (MEMS) as it applies to use in advanced fuzing systems for the Navy; new efforts to increase awareness of the Army's Innovation Hub (IHUB) Initiative to promote greater collaboration between entrepreneurs, cutting-edge academics, Army Research Laboratory scientists and engineers, and Next-Gen researchers such as Post-Docs and MBA students; and an exciting event in February called the Navy Innovation Marketplace, where the U.S. Navy will showcase innovative solutions to warfighter challenges while showing commercial applications for their designs technologies – all available for license and/or partnership.



With all of these wonderful things and more to look forward to at ETC, we are certain this will be a tremendous year. Wishing you all the best and brightest New Year possible.

Bob Kavetsky  
CEO



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### **ETC Wins Navy MEMS Award**

On December 7<sup>th</sup>, 2017, the Energetics Technology Center (ETC) was awarded a \$5 million,

three-year contract to conduct applied research in Microelectromechanical Systems (MEMS) as it applies to use in advanced fuzing systems for the Navy.

“Microelectromechanical Systems or MEMS is a fabrication technology for creating mechanical devices on micron scale ( $1 \times 10^{-6}$  meters). But MEMS is more than miniaturization. By combining, photolithography, deposition, patterning and etching, a fabrication technology has resulted for the production of full-assembled, integrated electromechanical systems on a scale once reserved for electronic integrated circuits (IC). As the first M of MEMS implies, individual features are on the micron scale that is  $10^{-6}$  meters but the resulting systems can be several millimeters in size,” defines [Paul J. Smith](#), Weapons Department, Indian Head Division, Naval Surface Warfare Center.

“ETC is proud and honored to support the Navy with this contract opportunity,” states Robert Kavetsky, CEO, Energetics Technology Center. “We are looking forward to taking MEMS technology to the next level. In the near future, MEMS will be used in new commercialization opportunities by small businesses and entrepreneurs to benefit mankind in areas we cannot even imagine now.”

In 2018, in order to provide these contract services, ETC will be hiring a number of technical staff to support the program.

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### **Meet ETC's Newest Employee: Eldy Zuniga**

Eldy is a Microelectromechanical systems (MEMS) Engineer at Energetics Technology Center. He graduated with a Master's in Material Science and Engineering at the University of Michigan in 2016 and was hired in November of 2017. Eldy has experience with MEMS and microfabrication at the University of Michigan Lurie Nanofabrication Lab. He is currently doing research work on ETC's Office of Naval Research Machine Discovery project and preparing to begin work with the Indian Head MEMS Fuzing Research program. ETC's John Millemaci will be the project director for the MEMS Fuzing effort. Eldy is originally from Metairie, LA in the greater New Orleans area.



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### **Navy Innovation Marketplace**

Join Energetics Technology Center for the Navy Innovation Marketplace, featuring researchers and scientists from the [Naval Air Warfare Centers – Aircraft Division \(NAWCAD\)](#) and [Weapons Division \(NAWCWD\)](#) and [Indian Head Explosive Ordnance Disposal Technology Division \(IHEODTD\)](#) on Wednesday, Feb. 7, at the Southern Maryland Higher Education Center in California, Maryland. The technology showcase, highlighting U.S. Navy

technologies available for license and/or partnerships, will showcase innovative solutions to warfighter challenges while showing commercial applications for their designs.

Technology pitches and presentations given by government researchers, inventors and scientists will focus on three areas: Photonics, Firearms Training and Safety, and Sensors. Keynote speakers for the event include [TEDCO](#)'s CEO, George Davis, and Dr. Charles Daitch, CEO and founder of [Akonni Biosystems](#), a Frederick-based company built on successful licensing of government technology. The program is scheduled from 8:30a-4:00p and all attendees are welcome and encouraged to tour St. Mary's County's new incubator, TechPort, at the regional airport complex, where a reception will follow the tour.

The cost of the program is \$25 and lunch is included. For more information and to register for the event, [go here](#).

# NAVY INNOVATION MARKET PLACE

SOUTHERN MARYLAND HIGHER EDUCATION CENTER

## COLLABORATION AMONG NAVAL AIR WARFARE CENTERS, AIRCRAFT AND WEAPONS DIVISIONS & INDIAN HEAD

FEB

7TH

8:30-9:30 A.M.  
Check in and Coffee

9:30 A.M. - WELCOME  
Ms. Leslie Taylor, Executive Director, NAWCAD  
Mr. Ashley Johnson, Technical Director, Indian Head

10:00 A.M. KEYNOTE SPEAKER  
Mr. George Davis, CEO, Maryland Technology Development Center (TEDCO)

10:30 A.M.-12:00 P.M.  
Technology Group I - Photonics

12:00 - 1:00 P.M. LUNCH AND SPEAKER  
Dr. Charles Daitch, PhD  
CEO & Founder  
Akonni Biosystems Inc.

1:00 - 2:30 P.M.  
Technology Group II - Firearms Training and Safety

2:30 - 4:00 P.M.  
Technology Group III - Sensors

4:00 P.M.- FINAL REMARKS

\*Join us at the new St. Mary's Incubator, TechPort, for tour and reception.

### SPEAKERS

George Davis, CEO, Maryland Technology Development Corporation

Dr. Charles Daitch, PhD  
CEO & Founder  
Akonni Biosystems Inc.

This engaging event will consist of technology pitches and presentations given by researchers, inventors, scientists showcasing their innovative solutions to warfighter challenges as well as commercial applications for their technologies.

Come learn about the Navy's new express licensing!

For more information and registration, visit the event page at:  
<https://navyshowcase.eventbrite.com>

For more information email us at [techfirenetwork@etcmd.com](mailto:techfirenetwork@etcmd.com)



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