

# VALLEY ENGINEERING, SCIENCE & TECHNOLOGY CLUB

March 2018 NEWSLETTER

[www.engineersaz.com](http://www.engineersaz.com)

The Engineers Club is a social organization which meets regularly for lunch with a speaker on a technical topic. Spouses are invited and many attend regularly. Short field trips are occasionally scheduled. Membership is open to anyone who has worked in or related to the engineering or scientific fields. Meetings are held at 11:30am on the first Friday of each month (unless otherwise noted), October through June, at Briarwood Country Club, 135th and Meeker in Sun City West, AZ  
Visitors are always welcome - - just call Reservations at (623)546-9112 to let us know you are coming.

## MARCH 2 PROGRAM

### Getting to Know IT Security - WestMEC style

Bradley Whitaker, IT Security, West MEC



I come from a technical background spanning two decades. I earned my Associates and Bachelors in Multimedia and Virtual Reality from the University of Advancing Technology. Since I have worked in various positions within the industry from Graphic Design to IT Security. I have also taught in many venues over my

career. One of my favorite Quotes is "Small changes in initial conditions can radically alter the end product." This is from Chaos Theory, and it mathematically represents what I believe to be my impact on the future generations.

Abstract: This Presentation highlights the expanding gap in open Cyber-security positions nationwide, and the need for qualified candidates to fill those roles. WestMEC is a forward looking educational powerhouse that is training a future generation for a career in Cyber-security.

## MEAL COST INCREASING

Due to increased food costs to the Club the Board has decided to raise the luncheon meal for 2018 to \$22.00 starting with the January 5, 2018 meal.

Listed below are the 2018 dates of the VEST luncheon meetings:

**March 2, April 6, May 4, June 1,  
October 5, November 2, and December 7**

## Scholarship Recipients



VEST was fortunate to have the current scholarship recipient, Nicholas Blum (left) and previous recipient Aiden Bramer (right) speak to the group at the February 2 luncheon. Nicholas is now pursuing a degree in Mechanical Engineering at ASU. Aiden Bramer graduated from Embry-Riddle Aeronautical University and is now employed in the field at Boeing in Mesa. How wonderful to hear from a future generation involved in science and technology!

## APRIL 6 PROGRAM

### Unmanned Aircraft systems (UAS) & Public Safety

Ian Dunbar, UAS Program Manager, Lead Instructor & Chief Pilot for Arizona Fire & Medical Authority



Ian Dunbar is a USAF Veteran and a Fire Captain/Paramedic with 19 years of Service. He is also an Incident Safety Officer, Private Pilot, Single Engine Airplane Rating Instrument Rated Helicopter Pilot and Commercial Drone Pilot.

Abstract: First responders often face complex emergencies and the use of modern technology is critical in the collection of pertinent information to assist and provide incident commanders with the relevant

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## 2018 OFFICERS

President	Tod Hamilton	623-910-2042
Vice President	Open	
Secretary	Doris Palmer	623-815-8143
Treasurer	Carol Mungas	763-639-3922
Asst. Treas.	Don Block	623-546-0557

## COMMITTEE CHAIRPERSONS

Programs	Rick Cecil	360-402-1695
Membership	Philip Main	623-748-8222
<b>Reservations</b>	<b>Dave Whitehouse</b>	<b>623-544-0942</b>
Luncheons	Susan Whitehouse	623-544-0942
Scholarship	Ralph Palmer	623-815-8143
Member at Large	Les Sherry	623-975-9081
Newsletter	Dave Campbell	623-518-4871
Event Audio	Hal Lind	623-546-6385
Event Computer	Richard Sarut	480-300-7251
Website	Dave Campbell	623-518-4871
Publicity	Lance Berglund	623-734-3737
Field Trips	Open	
Hospitality	Doris Palmer	623-815-8143
Past President	Jackie Rice	623-572-8089

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information necessary to make critical decisions, in real time. Drones can deliver high definition live video transmissions to incident commanders with the advantage of comparing what they are seeing on the terrestrial level with the information provided from an aerial platform. The addition of Thermal Imaging Camera technology can greatly improve critical decision making.

The use of drones is having an outstanding impact in search and rescue. Drones can be deployed quickly and can search large expanses of terrain that would be difficult to search effectively from ground level. Drones can deliver life jackets to drowning victims, AED's to heart attack victims in isolated areas, and other critical equipment when time is of the essence.

Training for the use of drones in public safety is a thorough and extensive process necessary in maintaining safety within the National Airspace System for both manned and unmanned aviation. The use of UAS in public safety will provide first responders with information and enable them to keep themselves and others safe while mitigating potentially deadly incidents.

## TREASURER'S REPORT January 2018

General Fund Balance:	\$10,975.98
Scholarship Fund:	\$ 3,907.42
Membership Total:	141
2018 Membership dues are now due—\$20.00	

## LUNCHEON MENUS

**March 2: #1 Salisbury Steak or #2 Baked Alaskan Cod**  
Both entrées come with salad, Rice Pilaf, Steamed Broccoli & Cauliflower, and Mint Chocolate Chip Ice Cream and cookie. (*Grilled Vegetable Plate or Fruit Plate also available*)

**April 6: #1 Meatloaf or #2 Florentine Chicken with Herb Sauce**  
Both entrées come with salad, Creamy Mashed Potatoes, Mixed Vegetables, and Rainbow Sherbet with a Cookie. (*Grilled Vegetable Plate or Fruit Plate also available*)

## RESERVATION POLICY

The cost of the monthly luncheon beginning in Jan 2018 will increase to **\$22.00 cash or check**. The reservation deadline is 6 PM Monday before the meeting.

**Late reservations cannot be guaranteed the regular meal.**  
Call Dave Whitehouse to cancel your reservation.

Note that the full cost of the luncheon will be charged for "no-shows" and cancellations after 5 PM on Wednesday before the meeting.

Please have cash or make out your check in advance.

## FUTURE MEETINGS

May 4

Title: Water in Arizona  
Speaker: Jennifer Brown, Central Arizona Project  
CAWCD Board of Directors, representing  
Maricopa County



**Building the Future of Airpower:  
Whatever the load, the F-35 can carry it.**

February 2, 2018 Speaker Major David Clementi, Luke AFB

For more information on our speakers, please visit our website at [www.engineersaz.com](http://www.engineersaz.com)