

# VALLEY ENGINEERING, SCIENCE & TECHNOLOGY CLUB

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

NOVEMBER 2016 NEWSLETTER

Editor: Noelle Jobson

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.

## Nov 4 PROGRAM

### History and Future of Water

Glenn Marzluf, PE, GM for Del-Co Water



This session will not only include the very basics of our current engineering masterpieces: our water and wastewater systems, but also provide context by examining how we arrived here today. Major water supply systems date from the days of Roman Aqueducts. How did the water industry evolve since then? Wastewater systems were largely put in place starting around the beginning of the 1900s, but it took many decades for the USA to begin truly investing in wastewater treatment. Why? And what can we learn from this history to apply towards the future: the most important aspect of the presentation is looking into the future at the big-picture challenges for our nation's water supply and wastewater systems into the 21st century.

Mr. Marzluf has been the General Manager for the Del-Co Water Company since 2012. He has nearly 20 years of experience working in the utility and public works industry, and was awarded the President's Award for Manager of the Year by Ohio Rural Water Association in 2015. Prior to Del-Co, he was employed as the General Manager of Utilities for Sarasota, Florida, where he was responsible for management of potable water, sewer, and reclaimed water utilities.

Mr. Marzluf is a registered Professional Engineer. He is an Ohio native growing up in Hilliard and is a graduate of The Ohio State University. Prior to Sarasota and Del-Co Water, he served as an Engineer at the City of Hilliard. He resides with wife Anne and three sons in Delaware, Ohio.

## December 2 PROGRAM

### Cyber

### Security, State of the market, Future trends and Technology Solutions:

Jim Cook, Director Cyber Security Business, ASU



Jim is a seasoned professional with over thirty years of successful sales and business development expertise in both domestic and international arenas. *Continued on Page 2*

## NOTES FROM...

### President Jackie Rice

*Rulers of the Roose*

*Rulers of the roost*



The temporal and geographic origins of the domesticated chicken in human culture and history are perpetually underestimated. Luckily for us, Andrew Lawler's "Why Did the Chicken Cross the World?" details one surprising fact after another that ultimately linked reveal a grand truth: that chickens are everywhere and are inextricably linked to the emergence and maintenance of human civilization.

There are now more than 20 billion chickens on Earth – more than the combined total of cats, dogs, pigs, cows, and rats. There are 3 chickens for every individual human, but as their numbers grow, they have paradoxically become less visible. Americans now consume 4 times as much chicken as they did 60 years ago. To meet our growing appetites, breeders have selected for faster growth and more rapid rates of feed conversion. Birds are now harvested only 47 days after birth – 23 days earlier than chickens reared in 1950 and 2.6 pounds heavier. The average consumer interacts only with the constituent parts of the bird, either as shrink-wrapped carcasses in supermarkets or as anatomically ambiguous meat at a restaurant. This disconnect between chicken as animal and chicken as food has allowed commercial producers to meet our demand for cheap protein through questionable husbandry practices that remain exempt from animal welfare legislation.

*Continued on Page 2*

## FUTURE MEETINGS

December 2, 2016

Title: Cyber Security, State of the market, Future trends and Technology solutions

Speaker: Jim Cook, Director Cyber Security Business Development, ASU

January 6, 2017

Title: Immunotherapy: Understanding How the Immune Response Can Be Used To Detect And Alter Cancer Cell Development

Speaker: Karen S. Anderson, MD, PhD. ASU BioDesign Institute

## 2016 OFFICERS

President	Dr. Jackie Rice	623-572-8089
Vice President	Tod Hamilton	623-910-2042
Secretary	Doris Palmer	623-815-8143
Treasurer	Marilyn Pettigrew	623-337-4163

## 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	Tod Hamilton	623-910-2042
Scholarship	Len Cohen	623-546-3741
Member at Large	Les Sherry	623-975-9081
Newsletter	Noelle Jobson	623-810-8717
Event Support	Hal Lind	623-546-6385
Event Audio	Richard Stout	623-815-0985
Event Computer	Richard Sarut	480-300-7251
Web Site	Dave Campbell	623-518-4871
Publicity	Lance Berglund	623-734-3737
Field Trips	Lanny Barness	623-546-3364
Hospitality	Doris Palmer	623-815-8143

## TREASURER'S REPORT November 2016

**General Fund Balance:** TBD in December 2016  
**Scholarship Fund Balance:** TBD in December 2016  
**October Membership Total:** 129

## LUNCHEON MENUS

**Nov 4: #1 Turkey Medallions w/Cranberry Sauce & Apple Walnut Stuffing, or #2 Grilled Salmon.** Both entrées come with Salad, Mashed Potatoes, Green Bean Almondine, & Vanilla Ice cream with cookie.

**Dec 2: #1 Beef Sirloin Kabob, or #2 Pan Fried Trout Almondine.** Both entrées come with Salad, Rice Pilaf, Chef's Vegetable, & Peppermint Ice cream with cookie.

*(Grilled Vegetable Plate or Fruit Plate also available).*

## RESERVATION POLICY

**The cost of the monthly luncheon is \$18.00 cash or check.**

The reservation deadline is 6PM 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 5PM on Wednesday before the meeting.

Please have cash or make out your check in advance.

**RESERVATIONS Dave Whitehouse (623) 544-0942**

VEST President & Program Organizer with speaker Noelle Jobson, CEO & Founder of IGM Consultants.



## President's Note Cont'd

Chickens have influenced numerous defining events in global history: Darwin studied the morphology and impressive color variations in chicken breeds. They also played a major role in sustaining the economic independence of slaves and women in 19th century America, and proceeds from cockfighting licenses and bird sales in 19th century Philippines generated more revenue than tobacco, the country's biggest export, and in more recent history, chicken eggs have played a crucial role in the production of vaccines.

Perhaps the clearest evidence that chickens have thoroughly infiltrated our daily lives rests in their influence on our language and humor. People are cocky and henpecked, and we brood and crow. We walk on eggshells, hatch ideas, rule the roost, fly the coop, get our hackles up, consider our place in the pecking order, run around like chickens with our heads cut off, ponder the motivation of chickens to cross the road, and wonder whether the chicken or the egg came first.

However, the prestige of an animal can be correlated with the year its genome was sequenced and the chicken has bragging rights over the dog, pig, cow, cat, and chimp.

Lawler's book goes a long way toward restoring chickens to their respected position within human history and our modern world. Both chickens and people will benefit as a result.

## Jim Cook Cont'd

His current role resides within ASU's Economic Development Office and is responsible for global business development activities for cybersecurity, Internet of Things and related special projects. Prior to this role, he led the rollout of the enhanced ASU Mentor Network, and ongoing business development activities within South Asia (Malaysia, Singapore, India). Prior to that, he was involved with the development and execution of Alexandria Library Co-Working Network, Great Little Companies (GLC) program, global business strategies, international soft landing and go-to-market activities at Sky-Song, the ASU Scottsdale Innovation Center. He offers a unique, solid background with excellent operational acumen for global environments. Previous experience includes: Microsoft Alliance for NetApp (Network Appliance), Sunnyvale, CA; Wipro Technologies, Bangalore, India; Microsoft Corporation Redmond, WA; Sun Microsystems, Mountain View, CA; Nihon Sun Microsystems KK, Tokyo, Japan; Convergent Technologies, San Jose, CA; and Be Inc. Menlo Park, CA. He is especially skilled in establishing successful mutually beneficial executive business relationships with companies from Malaysia, Singapore, Thailand, India, Japan, Korea, Mexico, Brazil, Russia, Australia, Taiwan, and the United States.

Jim holds a Master of Business Administration from University of Missouri – St. Louis. And a Bachelor's of Science in Computer Science from the University of Missouri – Rolla, Cum Laude. He is a member of multiple university honor societies. (1969 – 1972).

For more information on our speakers, please visit our website at

[www.e2engineersaz.com](http://www.e2engineersaz.com)

VEST President & Program Organizer with speaker Dhruv Bhate of Phoenix Analysis and Design Technologies (PADT).

