

# VALLEY ENGINEERING, SCIENCE & TECHNOLOGY CLUB

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

DECEMBER 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.

## 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*

## January 6 PROGRAM

### The Future of Energy Is Bright

Patrick McDermott, CEM APS Community Affairs Manager



Patrick has been employed at APS since 1987. In his current role as a community affairs manager, he is responsible for direct community interface with non-profits, business organizations and citizen groups. These regions include; Tolleson, Avondale, El Mirage, Gila Bend, Glendale, Goodyear, Litchfield Park, Peoria, Surprise, the Sun Cities, Tonopah and as well as into the communities including and surrounding Wickenburg and Youngtown. He is a Certified Energy Manager (CEM) with the Association of Energy Engineers.

The future of energy is certainly bright! From our beginning in 1886, as the first awarded franchise in the city of Phoenix to the present, APS remains at the forefront of the ever-changing electric utility future. For over 130 years APS has been an integral partner in a long and prosperous relationship with the cities, towns and counties that we serve in Arizona. That successful partnership continues in a time of unprecedented change in how customers use energy and interact with their utility companies. A very exciting time indeed!

The advances in technologies, "two-way" interactions with customers who generate a portion of their own electricity and the "Smart Grid" are changing the way customers use energy and are shaping a new energy frontier. That new frontier includes expanding choices and control customers have in managing their energy use with a focus on a sustainable energy future for all Arizonan's. That future includes a growing portfolio of renewable energy production, smart and economical use of existing conventional resources, and the challenges of meeting the needs of a growing population.

## 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.

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## FUTURE MEETINGS

February 3, 2017

Title: To Catch A Cancer: Using Biotechnology to Improve Detection of Cancer

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  
**November Membership Total:** 134

## LUNCHEON MENUS

**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.

**January 6: #1 Roasted Breast of Tom Turkey, or #2 Grilled Salmon.** Both entrées come with Salad, Creamy mashed potatoes, steamed broccoli, & Ice cream with rolled cookie.

## 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).

