

VALLEY ENGINEERING, SCIENCE & TECHNOLOGY CLUB

October 2019 NEWSLETTER

www.engineersaz.com

The Engineers Club is a social organization which meets monthly for lunch with a speaker on a topic of interest. Spouses and guests are invited and many attend regularly. Short field trips are occasionally scheduled. Membership is open to anyone who has worked in or has an interest in Engineering, Science or Technology. 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

OCTOBER 4 PROGRAM

The Science Behind the “Mummies” of Nazca, Peru

Dr. Robert E. Farrell



Dr. Robert E. Farrell received his Bachelor of Science in mechanical engineering from The Ohio State University, his MBA from Western New England College, and his Doctor of Engineering from the University of Massachusetts. He is now retired from Penn State University as Associate Professor Emeritus.

Twenty years ago, he began doing serious research for his science fiction series of novels; Alien Log, Alien Log II: The New World Order, and Alien Log III: The Dulce Affair. Currently, he is working on Alien Log IV: The Antarctic Affair. He believes good science fiction is based on good science.

All of Dr. Farrell's books made “Best Sellers List” on Amazon in 2012. He has lectured many times at universities, science centers, MUFON meetings, Roswell (2005 and 2018), book stores, clubs, and senior centers around the country. He has appeared on numerous TV and radio shows including Coast-To-Coast AM with George Noory in 2006 and 2012.

Abstract: All of the bodies are hominid but have only three fingers and three toes. The bodies have all been preserved for perhaps thousands of years and have not had any internal organs removed. Some of the bodies are believed to be reptilian and one has four eggs that show in x-rays. One of the mummies, Maria, has been carbon dated to have died about 1400 years ago and “Wawica”, a baby found near Maria has been dated to 670 years ago. The genetic studies indicate that both Maria and Wawica have only about 25% modern human DNA. Are these bodies a new branch from the tree of evolution or are they not from Earth? Either way the find is historic.

2019 VEST LUNCHEON DATES

November 1, December 6

FUTURE MEETINGS

December 6

Title: Water in AZ Speaker: Emily Grunspan, ASU

FROM PRESIDENT STEVE SUMNER

Welcome to the 2019-2020 season of the Valley Engineering, Science and Technology Club. We hope you had a good summer whether you stayed in Arizona or wherever you went.

Recently Briarwood Country Club advised us of an increase in the price for our luncheons for this season. Since we had already sent out the information for today's luncheon, Briarwood was willing to furnish today's meal at the previous cost. However, beginning with the November luncheon, will be at a newer higher cost. Unfortunately, the Club cannot afford to subsidize the costs of the luncheons. Your Board is looking at ways to keep the increase as low as possible. Several options are being investigated.

One is decreasing the quantity of food currently being included, such as eliminating the salad currently included with our meal. The second is possibly changing venues to a location that has lower pricing for their banquet luncheons. It appears inevitable that we will need to do something.

We will keep you advised.

NOVEMBER 1 PROGRAM

The Future of Energy is Bright

Patrick McDermott- 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.

His technical experience includes 13 years as a Technical Account and key Account Manager for some of APS largest customers including the west-side metropolitan cities, merchant power plants, Luke AFB, Gila Bend and Buckeye, Discover Card, USAA and many other industrial manufacturing customers. Also, he spent five years as a Customer Project Manager, designing and managing distribution con-

(Continued on page 2)

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2019 OFFICERS

President	Steve Sumner
Vice President	Open
Secretary	Doris Palmer
Treasurer	Carol Mungas
Asst. Treas.	Dave Campbell

COMMITTEE CHAIRPERSONS

Programs	Rick Cecil
Membership	Philip Main
Reservations	Chuck & Jackie Wasik
Luncheons	Susan Whitehouse
Scholarship	Jim Schlenvogt
Member at Large	Peter Rauen
Newsletter / Website	Dave Campbell
Event Audio	Hal Lind
Event Computer	Paul Scherer
Publicity	Lance Berglund
Field Trips	Eric Muhly
Hospitality	Doris Palmer

Email the Board at: board@engineersaz.com

TREASURER'S REPORT SEPT 2019

General Fund Balance:	\$ 10,569.08
Scholarship Fund:	\$ -917.00
Membership Total:	145

\$3,000.00 was paid out of the Scholarship Fund to our Scholarship Winners! Congratulations!

LUNCHEON MENUS

October 4: #1 Home Style Meatloaf or #2 Grilled Salmon. Both entrées will come with House Salad, Mashed Potatoes, Sauteed Squash with Onions, and Apple Cobbler with Vanilla Ice Cream. *(Grilled Vegetable Plate or Fruit Plate also available)*

November 1: Subject to Change #1 Yankee Pot Roast or #2 Shrimp Scampi. Includes Caesar Salad, Rice Pilaf, Steamed Broccoli/Cauliflower, and Strawberry Shortcake. *(Grilled Vegetable Plate or Fruit Plate also available)*

RESERVATION POLICY

The cost of the monthly luncheon is **\$22.00 cash or check**. The reservation deadline is 6 PM Monday before the meeting.

Late reservations cannot be guaranteed the regular meal. Call Chuck Wasik 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.

struction projects in both Yuma and in the metro Phoenix areas. He was also the manager of the APS Outdoor Lighting Department where he led a dynamic team that managed new construction, maintenance, billing and the implementation of new energy efficient and green lighting technologies such as LED and Induction into the palette of lighting options for APS customers state-wide. Before heading into the engineering and construction areas of APS, he was in the Customer Solutions Center and served as the Call Center Quality Coordinator.

Patrick volunteers his time with many volunteer and professional organizations, plays the drums and has sung the National Anthem at numerous community events.

ABSTRACT: 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.

The challenges and opportunities of today's energy landscape are many and often complex. We'll explore those challenges and opportunities and also the way we are all contributing to a bright energy future!



The Maricopa Community Colleges: Reforming STEM Education One Student at a Time.

June 7 Speaker: Dr. Tim Frank