

VALLEY ENGINEERING, SCIENCE & TECHNOLOGY CLUB

March 2019 NEWSLETTER

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)544-0942 to let us know you are coming.

MARCH 1 PROGRAM



Universities as a Catalyst for Smart City Innovation

Bobby Gray, ASU

Bobby Gray has been working in IT and higher education for almost two decades. He started his professional career as an application developer and worked his way up to leading a cross-functional development team (web site technicians,

application developers and data analyst) at the W. P. Carey School of Business. During this time he was responsible for re-vamping the schools website, building an internal CMS, creating an online course evaluation system and implementing Salesforce for the college. Bobby then went to run the IT systems for the Thunderbird School of Global Management reporting directly to the CIO. There he had a hand in replacing or upgrading all the IT systems in place at the college. When Thunderbird and ASU merged in 2015, Bobby move over to ASU's central IT systems and had been leading the mobile, IoT and eAdvisor application portfolios. Bobby hold three degrees from ASU, a BA in Philosophy a BS in Psychology and an MBA with an area of emphasis in leadership.

Abstract: Learn about how higher education universities can act as a catalyst for innovation for Smart City endeavors. The presentation will help to clarify what constitutes a Smart City and the potential impacts to those who will reside within them. Along with understanding how Smart Cities could evolve, we will look into the role of universities to help drive those changes. Once we understand what a Smart City is, and how universities can drive them, we will continue to look at the implication of creating a Smart Region in the Phoenix metro area and the further benefits to industry, education and the constituencies living there.

FROM PRESIDENT STEVE SUMNER

I want to thank those folks that stepped up to assist the Board for our future. We still have openings for a Vice-president and Field Trip Coordinator. We are also looking for someone to assist with arranging future programs. Rick Cecil, the current Programs Coordinator is becoming a Snow Bird but will assist in bringing you up to speed as to the functions of the Programs Coordinator.

Also, an individual asked me at the February 1 General Meeting as to why our Club was not a Sun City West Charter Club. I did some research as to the history of our Club. While I may not have all the facts, I will do the best I can on filling you in as to the history.

Our Club was started in 1975 in Sun City, several years before the creation of Sun City West. The first president was Merton L. Webber who served for the year 1975. The original Constitution and Bylaws of the Club states that the membership will consist primarily of, but not limited to, residents of the West Valley who are, or have been employed in the Engineering field, or other Science or Technology fields or have an interest in those fields.

Therefore, if we were a Charter club of Sun City West, we would have to restrict membership to SCW resident members. We currently have members who reside out side of Sun City West.



Air Pollution Dynamics in the Phoenix Metropolitan Area

February 1 speaker: Ronald Pope, Atmospheric Scientist
Maricopa County Air Quality Department

For more information on our speakers, please visit our website at www.engineersaz.com

FUTURE MEETINGS

May 3

Title: ASU Space Technology and Science
(NewSpace) Initiative
Speaker: Scott Smas ASU

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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	Dave Whitehouse
Luncheons	Susan Whitehouse
Scholarship	Jim Schlenvogt
Member at Large	Les Sherry
Newsletter / Website	Dave Campbell
Event Audio	Hal Lind
Event Computer	Richard Sarut
Publicity	Lance Berglund
Field Trips	Open
Hospitality	Doris Palmer
Past President	Tod Hamilton

Email the Board at: board@engineersaz.com



APRIL 5 PROGRAM

Exploring Ocean Worlds

David Williams, PhD ASU

Dr. David A. Williams is an Associate Research Professor in the School of Earth and Space Exploration at Arizona State University, Tempe, Arizona. Dr. Williams is the Director of the Ronald Greeley Center for Planetary Studies, the NASA Regional Planetary Information Facility at ASU. He is also the Director of the NASA Planetary Aeolian Laboratory, which administers wind tunnels at ASU and the Ames Research Center in California. David is currently performing research in volcanology and planetary geology, with a focus on planetary mapping, geochemical, and remote sensing studies. His research has included computer modeling of seismic wave propagation through planetary interiors, visible and near-infrared spectroscopy of the lunar surface, planetary geologic mapping of the satellites of Jupiter and Saturn, the planet Mars, the asteroid Vesta and the dwarf planet Ceres, computer modeling of the physical and geochemical evolution of lava flows in a variety of planetary environments, and petrologic study of lava samples from Mount St Helens. He was involved with NASA's Magellan Mission to Venus and Galileo Mission to Jupiter. He is a Co-Investigator on the European Space Agency's Mars Express orbiter mission, and he is a Science Team Member on NASA's Dawn Mission to asteroid Vesta and dwarf planet Ceres. He is also a Co-Investigator on NASA's newly selected Psyche Mission. In 2014 David was elected a Fellow of the Geological Society of America, and asteroid 10,461 DAWILLIAMS was named in his honor.

Abstract: In 1996 NASA's Galileo Jupiter orbiter discovered evidence for a salty, liquid water ocean underneath Jupiter's moon Europa. Since then, other NASA spacecraft have found evidence for oceans around other icy worlds in the outer Solar System, including Ganymede, Callisto, Titan, and Enceladus. The presence of all of this liquid water, in close proximity to heat sources and the elements required for life (CHNOPS, carbon-hydrogen-nitrogen-oxygen-phosphorus-sulfur), raises the possibility that other abodes for life could exist in our Solar System, beyond Earth. With the discovery of Earth-sized exoplanets (planets around other stars in our galaxy) within the habitable zones of their host stars, the time will soon come when we might discover ocean worlds beyond our Solar System. What are the implications of these discoveries? Join Professor David Williams of ASU's School of Earth and Space Exploration to discuss these issues and where NASA is headed as it attempts to better explore Ocean Worlds!

TREASURER'S REPORT JANUARY 2019

General Fund Balance:	\$ 10,008.79
Scholarship Fund:	\$ 1,403.00
Membership Total:	148

February 50/50 was \$ 74.00 - winner was Rick Cecil who donated his entire winnings to the Scholarship Fund! Thank You!

2019 membership dues are now due.

LUNCHEON MENUS

March 1: #1 Beef Tenderloin Medallions, or #2 Alaskan Cod with herb Crust and Seafood velouté Both entrées will come with house salad, Lyonnaise potatoes, vegetable mix, and yellow torte with lemon filling. (*Grilled Vegetable Plate or Fruit Plate also available*)

April 1: #1 Chicken Parmesan, or #2 Shrimp Scampi Both entrées will come with Cesar Salad, Basmati Rice, Parmesan Broccoli, and a Carrot Cake Bar. (*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 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.

2019 VEST LUNCHEON DATES

April 5, May 3, June 7