

# VALLEY ENGINEERING, SCIENCE & TECHNOLOGY CLUB

January 2019 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)544-0942 to let us know you are coming.

## JANUARY 4 PROGRAM "Whalecome" to studying the ocean in Arizona!

Charles Rolsky, PHD student, ASU



I am a PhD student and researcher in Biodesign's Center for Environmental Health Engineering at ASU where I study plastic pollution and the relationship between plastics and the environment.

Abstract: I conduct research in Rolf Halden's lab, within Biodesign's Center for Environmental Health Engineering. Here,

I work on marine and aquatic microplastics which have emerged as a major source of concern within many ecosystems and environments. Recently, we studied the fate of contact lenses as they are improperly disposed of down the drain. The identification, fate, and impact of plastics are only now starting to be understood and we have developed several analytical tools to help improve upon this. We are collaborating with ASU's Fulton School of Engineering on several projects pertaining to microplastics as well as with many groups around the world.

I have also worked for several years on using non-invasive research methods to collect species health information. This includes fecal samples from wild species such as killer whales. Through this information, we can gather all kinds of knowledge pertaining to hormonal activity in the realm of stress, reproduction, and overall species health.

I have been a TA for over six years and actively participate in science outreach programs aimed at empowering budding scientists from elementary school to high school. I also run a non-profit where we design and sell clothing that have sciencey designs

and all proceeds go to various charities from groups that train therapy dogs for at-risk kids to plastic pollution advocacy.

## FEBRUARY 1 PROGRAM

### Air Pollution Dynamics in the Phoenix Metropolitan Area

Ronald Pope, Atmospheric Scientist  
Maricopa County Air Quality Department



Ronald Pope has worked in the field of environmental science for over twenty years, working with both water and air quality. Since 2002, he has worked for the Maricopa County Air Quality Department where he currently holds the position of Atmospheric Scientist.

In 2014, Ron finished his PhD in Biology from Arizona State University with an emphasis on landscape ecology, an interdisciplinary spatial science that is concerned with the relationships between pattern and process. His past and current research areas include analysis of air pollution patterns, environmental justice, and asthma epidemiology.

Abstract: This presentation will discuss air quality regulation in the United States, including the history of the Clean Air Act and pollution trends across the country. Next, air quality in Maricopa County will be discussed, including the air pollutants of most concern, their sources, chemistry, health effects, and long-term trends. Finally, spatiotemporal patterns of pollution in the Phoenix Metropolitan area will be explored and air quality in Phoenix will be compared with other urban areas.

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## 2019 OFFICERS

President	Steve Sumner	623-544-7775
Vice President	Open	
Secretary	Doris Palmer	623-815-8143
Treasurer	Carol Mungas	763-639-3922
Asst. Treas.	Dave Campbell	510-703-7767

## 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	510-703-7767
Event Audio	Hal Lind	623-546-6385
Event Computer	Richard Sarut	480-300-7251
Website	Dave Campbell	510-703-7767
Publicity	Lance Berglund	623-734-3737
Field Trips	Open	
Hospitality	Doris Palmer	623-815-8143
Past President	Jackie Rice	623-572-8089

## 2019 VEST LUNCHEON DATES

January 4, February 1, March 1,  
April 5, May 3, June 7

## VEST NOTES

**The Board is looking for members who are interested in serving this Club.**

We currently have openings for someone to serve as Vice President and for a Committee Chairperson for Field Trips. This would involve planning and scheduling trip(s) or tour(s). See Steve Sumner for additional information.

We had elections of new officers at our December meeting and Steve Sumner was elected as our new President. Doris Palmer was retained as Secretary and Carol Mungas was re-elected as our Treasurer. Congratulations and thanks for serving.

## TREASURER'S REPORT DECEMBER 2018

General Fund Balance:	\$ 9,193.43
Scholarship Fund:	\$ 2,020.00
Membership Total:	145

December 50/50 \$ 86.00 - winner was Laura Sumner and she donated her entire winnings to the Scholarship Fund! Thank You!

2019 Membership dues are now payable—\$20.00

## FUTURE MEETINGS

February 1

Title: Air Pollution Dynamics in the Phoenix  
Metropolitan Area  
Speaker: Ronald Pope  
Maricopa County Air Quality Department

## LUNCHEON MENUS

January 4: #1 Slow Roasted NY Striploin Steak or #2 Grilled Salmon Both entrées will come with salad, herb roasted potatoes, green beans almondine and chocolate Moose (*Grilled Vegetable Plate or Fruit Plate also available*)

February 1 4: #1 Stuffed Pork Loin, or #2 Shrimp Scampi Both entrées will come with Caesar salad, AuGratin potatoes, vegetable mix, and yellow torte with lemon filling. (*Grilled Vegetable Plate or Fruit Plate also available*)

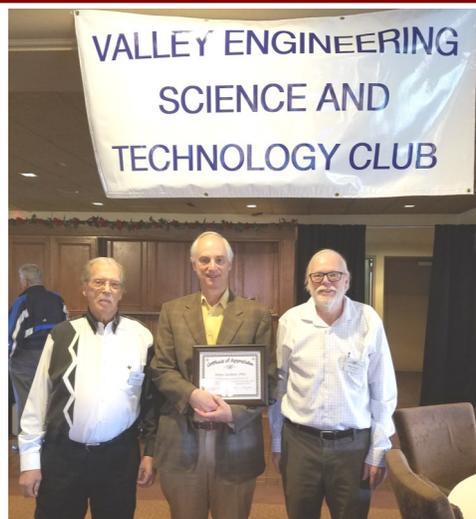
## RESERVATION POLICY

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.



## Mopping up our CO2 Waste

December 7 speaker: Klaus S. Lackner, PHD, ASU  
For more information on our speakers, please visit our website at [www.engineersaz.com](http://www.engineersaz.com)