

VALLEY ENGINEERING, SCIENCE & TECHNOLOGY CLUB

May 2018 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)546-9112 to let us know you are coming.

MAY 4 PROGRAM

Central Arizona Project. Your Water. Your Future

Jennifer Brown, Central Arizona Project CAWCD
Board of Directors,
representing Maricopa County



Jennifer Brown was elected to a six-year term on the CAWCD Board of Directors, representing Maricopa County, on November 3, 2016. She is a self-employed property manager. Jennifer graduated with a bachelor's degree from the Walter Cronkite School of Journalism and Mass Communication at Arizona State University in 2005. She was the managing editor for View Magazine, author of

two editorial blogs and a copy editor for novelists.

Jennifer is very active in the community. She serves as a board member for the John Volken Academy (a long-term addiction recovery center), a volunteer for the Cowgirls Historical Foundation, and an ambassador for Lift the Children. She volunteers for Dignity Health Foundation East Valley and in various leadership capacities at her church, including youth counselor. For over a decade she has served in the Boy Scouts of America in such roles as Pack Committee Chair, Eagle Scout Specialist and Cub Scout den leader. She was trained at the Phoenix Art Museum and continues

as a volunteer art teacher for local elementary schools. Jennifer is a native Arizonan. She enjoys reading, organizing and travel. She and her husband, Carson, have three boys and twin girls. They live in Gilbert, Arizona.

Abstract: In the early 20th century, Arizona's leaders knew the state's future depended on a water supply that was secure. Stable. Renewable. They pursued that vision; the result was Central Arizona Project (CAP), a 336-mile system that brings Colorado River water to central, and southern Arizona, is the state's single largest renewable water supply and serves 80% of the state's population.

JUNE 1 PROGRAM

The Search for First Light: New Telescopes that will Expand Hubble's Frontier

Rogier Windhorst, PhD Professor of School of
Earth and Space Exploration, ASU



Rogier Arnold Windhorst (born 1955) is an astronomer and a professor of physics and astronomy at Arizona State University. He received his Ph.D in astronomy in 1984 from the University of Leiden and did post doctorate work at Mt.Wilson and Las Campanas Observatories. He currently serves as associate chair at Arizona State and is among six Arizona state

faculty who were awarded Regents Professor appointments in 2006; he presides over the School of Earth and Space Exploration at the university.[1] In 2008, he became Foundation Professor of Astrophysics at Arizona State University and Co-Director of the ASU Cosmology Initiative.[2]

Windhorst has authored over 100 published scientific papers and has given over 125 lectures at seminars. His research has led to new understandings of how the universe first began. He also studies black holes. His research focuses on Astrophysics and Space Science, and he is the principal investigator of the Hubble space telescope mid-UV bright galaxy survey.[3] He is one of the six Interdisciplinary Scientists worldwide for the James Webb Space Telescope, and member of the JWST Flight Science Working Group. Windhorst is involved in planning the JWST science performance, and in critical oversights of its entire design and construction phase.[2]

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NEW VICE PRESIDENT STEVE SUMNER

Steve Sumner volunteered to be the new Vice President and was elected by the membership at our April luncheon. Welcome!

Bio: I am a graduate Civil Engineer from the University of Illinois in January, 1970 (4-1/2 Year plan). I was employed as a Structural Engineer designing and overseeing construction of railroad bridges and other structural support facilities for the Illinois Central Gulf V.E.S.T. Railroad for fourteen years and then Metra, the commuter rail system in Chicago and surrounding suburbs, for 23 years. I retired in 2007 and became a "Snow Bird" in Sun City West for five years, spending summers in Palatine, IL. In December, 2012, my wife, Barbara and I became full time residents of Sun City West. We have been married for nearly 49 years and have three sons, two of whom live in the Phoenix area. Our third son lives in Omaha. We have five grandchildren, two in Arizona and three in Nebraska. I am looking forward to serving on the V.E.S.T. Board and assisting any way I can.

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2018 OFFICERS

President	Tod Hamilton	623-910-2042
Vice President	Steve Sumner	623-544-7775
Secretary	Doris Palmer	623-815-8143
Treasurer	Carol Mungas	763-639-3922
Asst. Treas.	Don Block	623-546-0557

COMMITTEE CHAIRPERSONS

Programs	Rick Cecil	360-402-1695
Membership	Philip Main	623-748-8222
Reservations	Dave Whitehouse	623-544-0942
Luncheons	Susan Whitehouse	623-544-0942
Scholarship	Ralph Palmer	623-815-8143
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Website	Dave Campbell	623-518-4871
Publicity	Lance Berglund	623-734-3737
Field Trips	Open	
Hospitality	Doris Palmer	623-815-8143
Past President	Jackie Rice	623-572-8089

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Abstract: Rogier Windhorst, astronomer, Regents' and Foundation Professor, Co-Director of the ASU Cosmology Initiative, and James Webb Space Telescope Interdisciplinary Scientist will discuss next-generation telescopes that will expand the frontiers first discovered by the Hubble Space Telescope.

Of particular focus will be NASA's new 6.5 meter James Webb Space Telescope and the 25-meter Giant Magellan Telescope under construction in Chile. The James Webb Space Telescope, launching in 2019, is a large space-based observatory, optimized for infrared wavelengths, which will compliment and extend the discoveries of the Hubble Space Telescope. It will look back into the first 200-400 million years after the Big Bang when the first stars were formed.

The Giant Magellan is a member of the next class of giant ground-based telescopes that promises to revolutionize our view and understanding of the universe with a resolving power 10 times greater than the Hubble Space Telescope. Both new telescopes will complement each other and use gravitational lensing to detect the first galaxies, and possibly the first stars and black hole accretion disks.

TREASURER'S REPORT APRIL 2018

General Fund Balance: \$10,517.30

Scholarship Fund: \$ 4061.42

Membership Total: 142

April 50/50 \$109.00 - winner was Jim Schlenvogt who donated \$79 to the Scholarship Fund.

Thank You!

FUTURE MEETINGS

October 5

Title: Arizona's Climate "Why is it so Hot & Dry"
Speaker: Nancy J. Selover, Ph.D. State Climatologist Arizona State University Climate Office

LUNCHEON MENUS

May 4: #1 Salisbury Steak or #2 Trout Almandine Both entrées come with salad, Lyonnaise Potatoes, Long Glazed Carrots, and Chocolate Mousse. *(Grilled Vegetable Plate or Fruit Plate also available)*

June 1: #1 Roast Pork Tenderloin or #2 Grilled Salmon Both entrées come with salad, steamed cauliflower and broccoli, roasted red potatoes, and cheesecake. *(Grilled Vegetable Plate or Fruit Plate also available)*

RESERVATION POLICY

The cost of the monthly luncheon beginning in Jan 2018 will increase to **\$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.



Unmanned Aircraft systems (UAS) & Public Safety

April 6, 2018 Speaker Ian Dunbar, UAS Program Manager, Lead Instructor & Chief Pilot for Arizona Fire & Medical Authority

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