

ENGINEERS CLUB OF THE WEST VALLEY

FEBRUARY 2012 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 had close ties to the engineering or scientific fields. Meetings are held at 11:30am on the first Friday of each month, October through June, at Briarwood Country Club, 135th and Meeker in Sun City West, Arizona.

Visitors are always welcome -- Reservations are required -- Just call (623)544-0942 to let us know you are coming.

FEBRUARY 3 PROGRAM

Nanotechnology

Dr David K. Ferry
Arizona State University



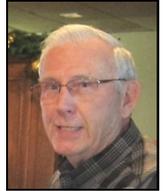
David Ferry received BSEE and MSEE degrees from Texas Tech University in Lubbock, Texas and a PhD from the University of Texas in Austin, Texas in 1966. He then served briefly as a National Science Foundation Postdoctoral Fellow in Vienna, Austria. In 1967, Dr. Ferry joined the faculty at Texas Tech, then the Office of Naval Research in Washington, DC and in 1977 he was on the staff at Colorado State University. He joined Arizona State University in 1983 and has served as Director of the Center for Solid State Electronics Research as well as Chair of Electrical Engineering and as Associate Dean of Research.

Dr. Ferry will present an overview of the current applications of nanotechnology such as those in the world of micro-computers as well as novel new applications that arise from our discoveries of new materials and/or new processing technology.

NOTES FROM...

President Les Sherry

Starting The New Year Right



I feel that our January luncheon was quite a success. Our speaker tantalized us with the prospect (promise?) of future manufactured replacement organs and body parts. He had my full attention! At my age I am sure that I have a couple of bad wheel bearings, a clogged carburetor and a noisy muffler that should be ready for replacement as soon as the local body parts franchise store opens. After reading Hal's interesting comments below, I can't help thinking.... NAPA: AUTO AND BODY PARTS MADE WHILE YOU WAIT!

We had a nice upgrade of our lunch last week from stew to a turkey dinner but unfortunately did not get the word out to everyone. As NASA would say....problem identified, solution implemented and no future "launch" problems expected.

MARCH 2 PROGRAM

Underwater Recovery

Dr Dave Conlin, Chief
National Park Service Underwater Resources



Dave completed his undergraduate degree at Reed College in Portland, Oregon, and received a master's degree from Oxford University in Aegean and underwater archeology. He followed that with a Ph.D. in anthropology and archeology from Brown University in Providence, Rhode Island.

While at Brown University, Dave began working with the National Park Service's Submerged Cultural Resources Unit at Dry Tortugas National Park. He then took an underwater archeologist position with the Park Service, on detail to the U.S. Navy where he helped plan and execute the recovery of the world's first successful combat submarine, the Confederate submersible H.L. Hunley, lost off Charleston, South Carolina, in 1864. He has since been involved with the search and discovery of many historic underwater wreckages.

Dave will present a review and discussion of the engineering evidence related to the sinking of the Royal Mail Steamer, the Titanic, - 100 years after the fact.

COMMENTS ON LAST MONTH'S LUNCHEON TOPIC

By Hal Clemett, Past President

In his presentation at the January meeting, Dr Vincent Pizzoni gave a most enlightening talk on The Brave New World of Bioengineering. In his talk he mentioned forming a kidney into solid form using a 3D "printer". A recent video circulating by e-mail showed a crescent wrench being copied in such a manner and sent to a 3D printer from which a workable plastic wrench emerged. A quick Google search of 3D printing showed a number of references to the subject. 3D printing is a fascinating technological innovation that has been evolving these past 5 years or more.

According to an earlier article in Science News, the technique is known formally as "rapid prototyping" using a system based on a bath of liquid plastic which is solidified by laser light. The movements of the laser are controlled by a computer that reads a 3D map of a solid object or design.

Physicist Phil Anderson, at the School of Theoretical Applied Science in Mahwah, NJ states in a co-authored paper that "rapid prototyping" could revolutionize the way people buy goods. It will allow them to buy or obtain a digital file representing a physical product electronically and then produce the object at a time and place convenient to them.

The possibilities for consumer goods, individualized custom products, replacement components, and quick fixes for broken objects, are almost unlimited according to the author. Perhaps this would be a good topic for a future Engineers Club luncheon meeting.

APRIL 6 PROGRAM

Sensors for Chronic Diseases

Dr. Jeffrey T. LaBelle
Arizona State University

2012 OFFICERS

President	Les Sherry	975-9081
Vice President	Bob Farrell	810-5095
Secretary	Jodie Lawrosky	238-5256
Treasurer	Bob Latvalla	546-7801

COMMITTEE CHAIRPERSONS

Programs	Daryl Lund	271-7337
Programs	Bob Farrell	810-5095
Membership	Bob Kessler	910-7054
Reservations	Dave Whitehouse	544-0942
Luncheons	Doug Keeler	480-8476
Luncheons	Hal Clemett	546-4941
Scholarship	Don Porter	556-1754
Scholarship	Don Johnson	975-1657
Scholarship	Gerry Montag	546-7963
Member at Large	Fred Scheske	556-2892
Newsletter	Bill Harrison	546-4943
Event Support	Ralph Palmer	815-8143
Web Site	David Campbell	518-4871
Publicity	Maurice Hoyt	533-4213
Field Trips	Keith Morrow	546-3080
Past President	Don Block	546-0557

BOARD EMAIL ADDRESS: board@engineersaz.com

TREASURER'S REPORT 1-15-2012

General Fund Balance: \$7,116.57
 Scholarship Fund Balance: \$ 952.61

LUNCHEON MENUS

February 3: Grilled Chicken Veloute (White Roux) with Saffron Rice, Chef's Vegetable and Rainbow Sherbet, with a Rolled Cookie
 (Entrée Option: Fruit Plate or Grilled Vegetable Plate)

March 2: Pork Cutlet Grilled Golden with Pan Gravy, Buttermilk Mashed Potatoes, Chef's Vegetable and Fudge Nut Brownie with Whipped Cream.
 (Entrée Option: Fruit Plate or Grilled Vegetable Plate)

RESERVATION POLICY

The cost of the monthly luncheon is \$17.00 per person.
 The reservation deadline is 5 PM Monday before the meeting.
 Late reservations cannot be guaranteed the regular meal.
 Call Dave Whitehouse if you cannot keep your reservation.
The full luncheon cost is due for "no-shows" and cancellations after 6PM on the Wednesday before the meeting.
RESERVATIONS Dave Whitehouse (623)544-0942

RAFFLE RESULTS AND DONATIONS

The winner of the January raffle was **Bill Black** who received \$120 with an equal amount to the Scholarship Fund.

WELCOME NEW MEMBERS

(NO NEW MEMBERS THIS MONTH)
Club Membership is 150



Keith Guiley and his wife, Leslie, attended the January luncheon. Keith gave a brief presentation and expressed his appreciation for the \$3,000 scholarship award he received from the engineers club.



Past president Don Block receives a plaque recognizing his service to the club from incoming president Les Sherry.



Dr. Vincent Pizziconi receives a certificate of appreciation from Daryl Lund for his presentation on the amazing developments in producing living body parts to replace damaged or defective items.