

Monday, January 26, 2015
San Diego Section Life Member Meeting/Luncheon

‘Long Distance Voyager Communcions – 11,700,000,000 Miles‘

Keynote Speaker: Dr. Henry Richter W6VZA

You won't want to miss this presentation on **Monday, January 26th at 11:30AM**

Presentation:

Come and hear Dr. Richter tell us how NASA communicates with Voyager at 11,700,000,000 miles which is about 18 hours radio transmit time. The distance equals 2/3 of a light day. NASA operates a Deep Space Network in three locations spaced 120 degrees around the globe. They each have a 210 Ft diameter antenna plus several small ones about 85 Ft diameter. They stay in touch with the two Voyager Satellites, plus 32 other spacecraft like Cassini orbiting Saturn, the Mars Rovers, the Mars Orbiters and a bunch more. For historical information, Explorer 1 became the first successfully launched satellite by the United States when it was sent to space on January 31, 1958. Voyager 1 is space probe launched by NASA on September 6, 1977 to study the outer Solar System. As part of the Voyager Program, like its sister craft Voyager 2, the spacecraft is in an extended mission to locate and study the regions and boundaries of the outer heliosphere, and finally to begin exploring the Interstellar medium. On September 12, 2013, NASA announced that Voyager 1 had crossed the heliopause and entered Interstellar Space on August 25, 2012, making it the first spacecraft to do so.

Keynote Speaker:

Dr. Henry Richter was born in Long Beach, California, and served a short tour of duty in the U.S. Navy in World War II. From there he received a BS and PhD (Chemistry, Physics, and Electrical Engineering) from the California Institute of Technology in Pasadena California. Dr. Richter then went to the Jet Propulsion Laboratory, which became part of NASA. While there, he headed up the development of the free world's first earth satellite, Explorer I. He then oversaw the Scientific instrumentation for the Ranger, Mariner, and Surveyor Programs. From JPL, he went to Electro-Optical Systems becoming a Vice President and Technical Director. Next was a staff position with UCLA as Development Manager of the Mountain Park Research Campus. He then owned an electronics manufacturing business and afterwards became the Communications Engineer for the L.A. County Sheriffs Department. Since 1977, he has been a communications consultant to Public Safety organizations. He is a life member of APCO, the IEEE, and the American Chemical Society.

This Life Member Luncheon/Meeting is scheduled for Monday, January 26, 2015 at 11:30AM at Vittorio's located at 7875 Highland Village Place just off of Route 56 in San Diego. It is located about a block north of the Camino Del Sur exit. Highland Village Place is the 1st light from Route 56. Turn left onto Highland Village Place and turn immediately left (next light) into the shopping center and then immediately left and all the way to the end.

We have set up a special menu and room at 11:30AM. To help defray the cost of this Luncheon, we have set the cost to attend at \$15 per person. Please RVSP by email to Bill Denke, wdenke1@san.rr.com by Friday, January 23rd so that we can make sure we have room for all.