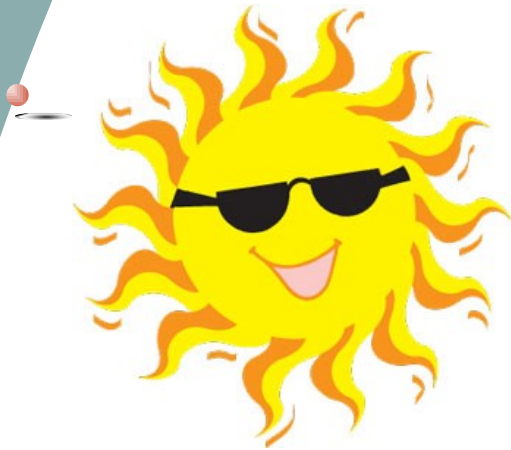


July 2019

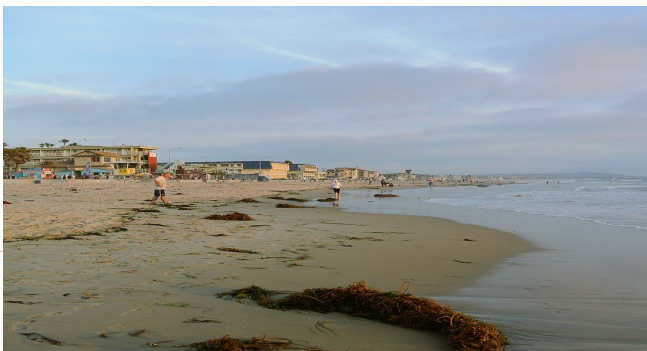
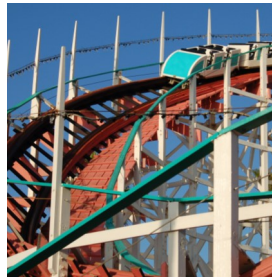
SCOPE

Summer is here!



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SCOPE

President's Report

It is with great sadness that I pass along the news that Harry Hodges, W6YOO, passed away on June 25, 2019. Harry was a long time member of Palomar Amateur Radio Club, having served on the board as President of our club in the past. Harry was deeply involved in numerous HAM Radio activities throughout San Diego County and the world. The following obituary sent out by Joe, N6SIX, earlier in the week sums it up nicely. Harry will be missed. 73, Joe, K6JPE

Harry was born in Los Angeles, CA in 1928. He joined US Merchant Marine at age 16 in October 1944, serving until April 1946. Harry then joined the US Army July 1946. He received battlefield appointment to 2d Lt in Korea, July 1952 and retired as Lieutenant Colonel, Corps of Engineers on May 31, 1974.

Harry was a pillar of the San Diego amateur radio community. He became a ham in 1973 as ZP5HZ in Paraguay. Received Conditional Class US license in same year as WA6YOO. Upgraded to Advanced and Extra Class in 1987.

Awards include: Induction into the San Diego DX Club's Hall of Fame, A-1 Operator, DXCC TOP HONOR ROLL (Mixed) and DXCC Honor Roll (Phone and CW), 5BDXCC with 12,17 and 30 meter endorsements, DXCC Challenge Plaque with 2000 endorsement, 5BWAS, 5BWAZ, IOTA Plaque of Excellence (800+) and separate DXCC awards for Mixed, SSB, CW, 10,12,15,17,20,30,40,80 meters and RTTY.

Harry was a member of QCWA, FISTS (5966), 10-10 Nr 8237. He was a former ARRL Section Manager (San Diego Section), Past President of Palomar Amateur Radio Club, Past President of EARS, past Secretary/Treasurer of San Diego DX Club, Past President, San Diego Chapter 14 Quarter Century Wireless Association, VE Team Leader(Escondido, CA) for SANDARC-VEC, member of ARES and US Army MARS (AAR9LX).

Harry will be missed by many. May he rest in peace.



What is ARISS?

Amateur Radio on the International Space Station (ARISS) lets students worldwide experience the excitement of talking directly with crew members of the International Space Station, inspiring them to pursue interests in careers in science, technology, engineering and math, and engaging them with radio science technology through amateur radio.

Amateur Radio on the International Space Station (ARISS) is a cooperative venture of international amateur radio societies and the space agencies that support the International Space Station (ISS). In the United States, sponsors are the Radio Amateur Satellite Corporation (AMSAT), the American Radio Relay League (ARRL), the International Space Station (ISS) U.S. National Laboratory and National Aeronautics and Space Administration (NASA). The primary goal of ARISS is to promote exploration of science, technology, engineering, and mathematics (STEM) topics by organizing scheduled contacts via amateur radio between crew members aboard the ISS and students in classrooms or public forms. Before and during these radio contacts, students, educators, parents, and communities learn about space, space technologies, and amateur radio.

For more information see: www.ariss.org

Palomar Amateur Radio Club and Open Research Institute Collaborate to Donate \$2,449.44 to Amateur Radio on the International Space Station

A substantial amount of additional funding is needed to replace the amateur radio power supplies on the ISS. This donation is a small part of a much larger effort to keep amateur radio in space, upgrade and update equipment on the space station, and promote peaceful international cooperation and the unparalleled educational opportunities

Specifically, this donation is given to support the Multi-Voltage Power Supply (MVPS), as ARISS needs to replace the current aging ISS amateur radio station power supply. ARISS has a fundraising campaign throughout 2019 to help with the expensive space-rated parts required to finish building the MVPS units.

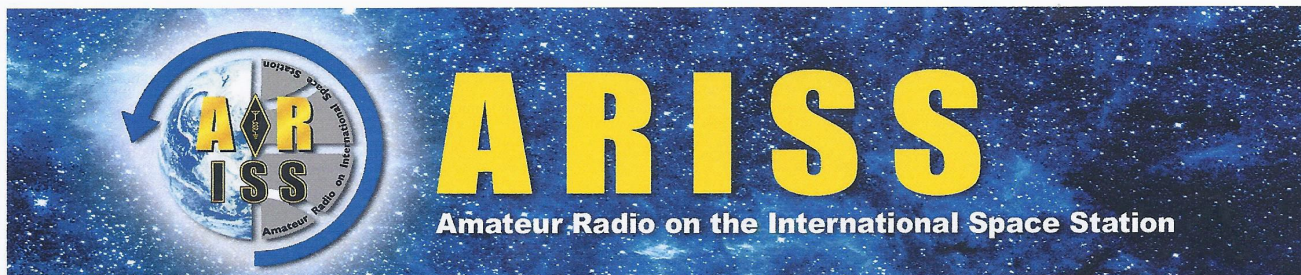
Kerry Banke, N6IZW, has been a core volunteer in the effort to design, build, and test the flight, training, and spare models of the MVPS. Inspired by his commitment, expertise, and mentoring throughout this project, individuals organized a fundraiser through the Amateur Radio Satellite Service Facebook group. See: <https://www.facebook.com/groups/amateurradiosatelliteservice>

PARC's Coordination of a Donation

Palomar Amateur Radio Club agreed to be the 501(c)(3) of record. Open Research Institute handled logistics, publicity, and secured a corporate match from Qualcomm Incorporated.

The \$2,449.44 donation was made to ARISS from PARC on 28 May 2019. The thank you letter is on the following page. For further information contact Michelle Thompson, w5nyv@arrl.net

PARC members help support ARISS!



June 5, 2019

Palomar Amateur Radio Club, Inc.
c/o Joseph Peterson, President
P. O. Box 73
Vista CA 92085-0073

Dear Palomar Amateur Radio Club members,

Thank you for your so very generous contribution of \$2,449.44 on May 28, 2019 to support the Amateur Radio on the International Space Station (ARISS) program.

Please reflect on the part your club is playing in helping ARISS and Amateur Radio impact the lives of thousands of students, educators, parents, and the public. You know that ARISS offers students the opportunity to learn about amateur radio operations, radio and wireless technologies, space communications, and space research. It provides students and others with a once in a lifetime personal conversation with an astronaut on the ISS, inspiring them for science, technology, engineering, math, radio activity and educating them about STEM career possibilities.

Your club's donation is so crucial for the ARISS program's survival, especially with our current aging untrustworthy radio. ARISS, ARRL and AMSAT thank the Palomar members for providing support to ensure continuing operations and needed equipment upgrades. If useful for tax purposes, AMSAT-NA is a 501(c)3 organization and the donation is tax deductible to the extent allowed by law. We look forward to continuing support and again, all of the Palomar Amateur Radio Club members are very appreciated!

Sincerely,

A handwritten signature in black ink that reads 'Frank H. Bauer'.

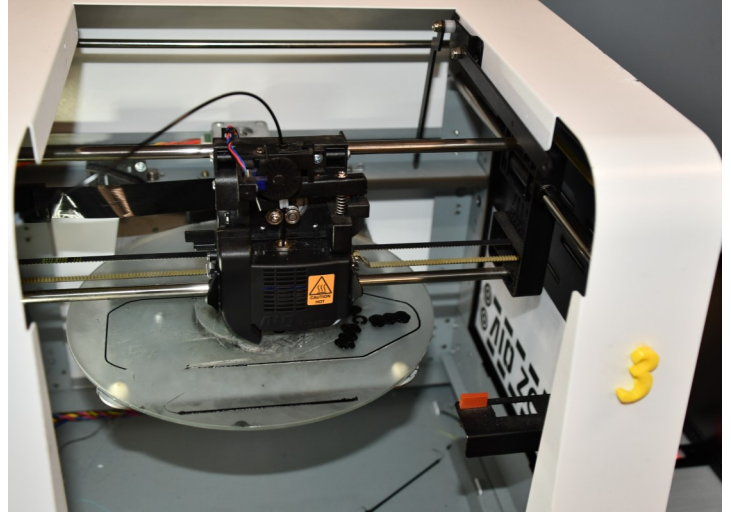
Frank Bauer, KA3HDO
ARISS International Chairman

Quotes...

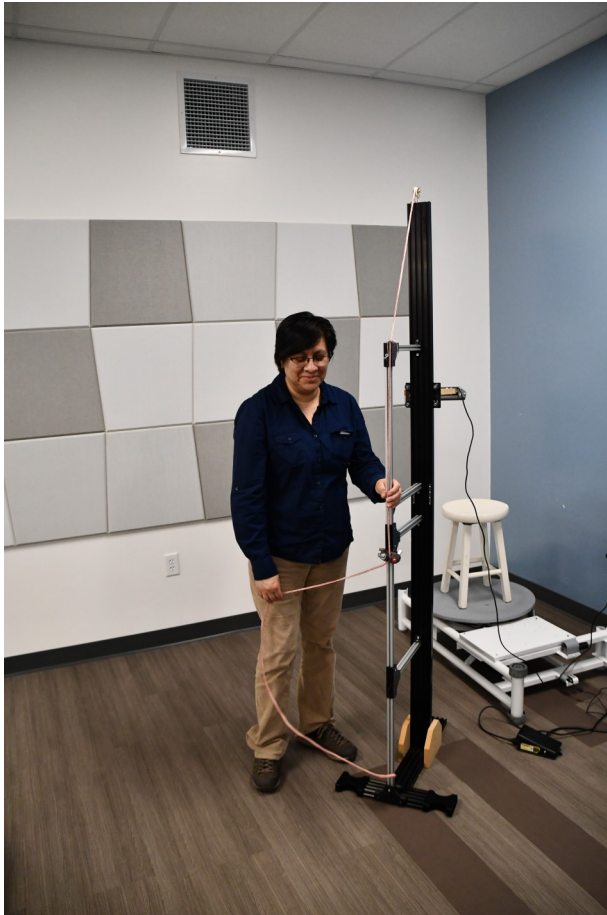
Teachers: *"Students were tracking the spacecraft, controlling the directional antenna, operating the radio transmitter and talking to an astronaut. Science doesn't come into the classroom better than this."*
"Students were excited to see science in real life. Three have earned their ham radio license."

5th grade student: *"It was one of the greatest days of my life. I think when I grow up, I'll be in aeronautics, maybe with the Navy, maybe building jets and flying them."*

June 2019 Monthly Meeting: 3D Printing Demonstration by Mira Costa College



Jack Abram, an instructor at the Technology Career Institute at Mira Costa College, and Gabriella Sandoval, a student there, and gave an interesting presentation and demonstration on 3D printing.



Gabriella and the 3D scanner she built.



Clone yourself in plastic and have a "mini me." (or not...)



Or, better yet, keep your gray matter active & have some fun!

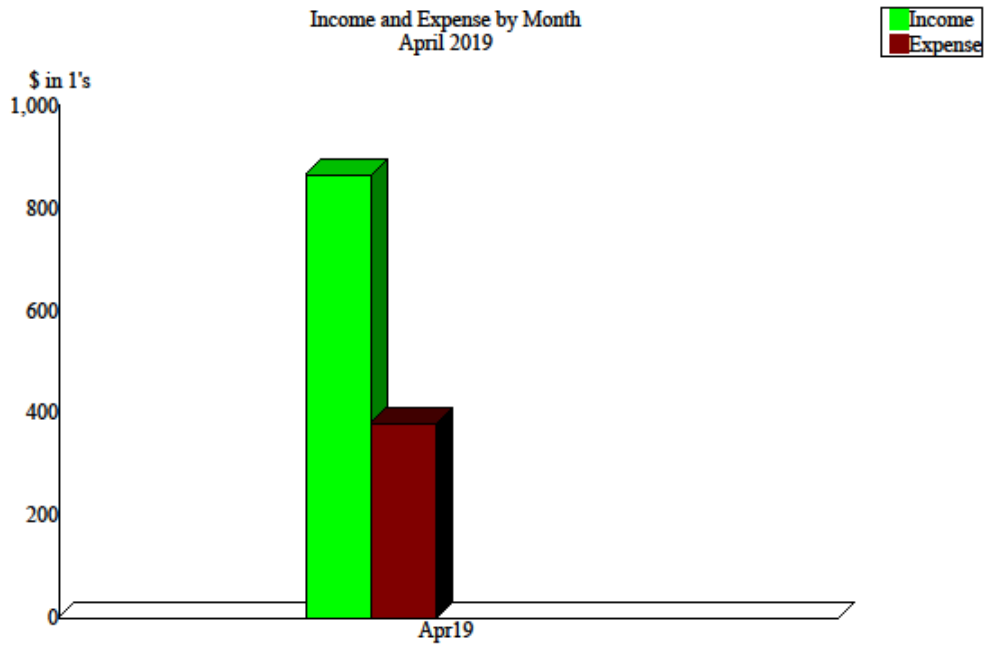
A big *Thank You* to Glenn, AI6RR, & Charlie, NN3V, for arranging this!

Palomar Amateur Radio Club, Inc.
Income/Expense by Category
April 2019

	<u>Apr 19</u>
Income	
Donations	202.00
Dues	661.84
	<hr/>
Total Income	863.84
Expense	
Equipment Expns	30.00
Equipment Storage	245.00
Rptr Electric	70.58
Rptr Phone	34.44
	<hr/>
Total Expense	380.02
	<hr/>
Net Income	<u><u>483.82</u></u>

Palomar Amateur Radio Club, Inc.
Income/Expense by Category

May 2019



Expense Summary
April 2019

Equipment Storage	\$245.00
Rptr Electric	70.58
Rptr Phone	34.44
Equipment Expns	30.00
Total	\$380.02



By Account



Meetings

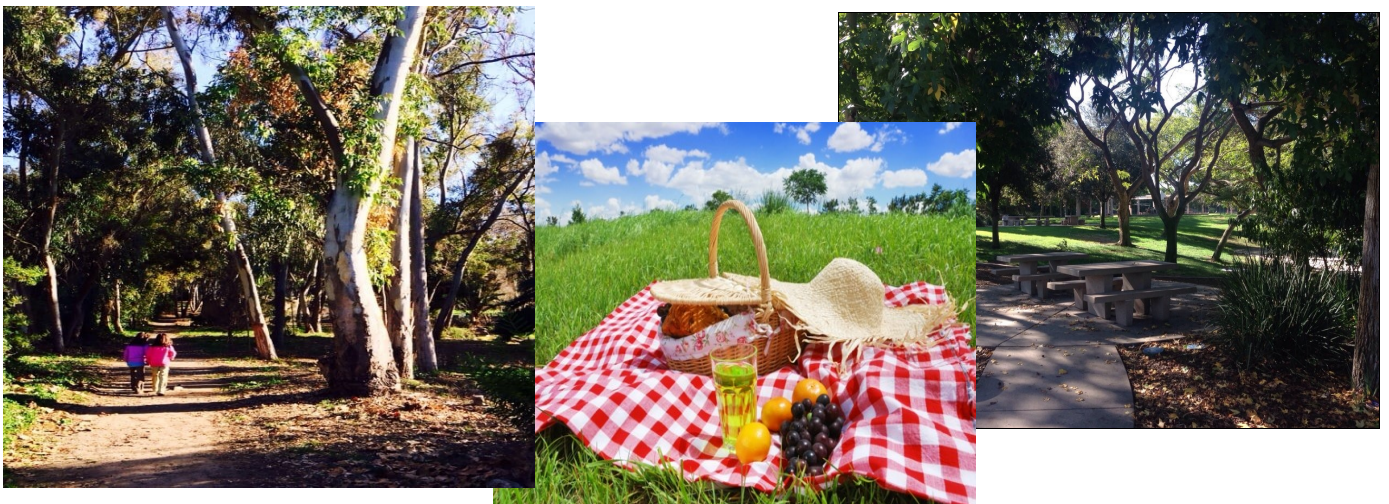
Our July monthly meeting is scheduled for Wednesday, July 3, 7:30 – 9:00 p.m., at the Pine Avenue Community Center located at Harding St. & Pine Avenue, Carlsbad.

There will be two complementary presentations and it should be an interesting evening:

- Mark Raptis, KF6WTN, will present a practical analysis of the difference between traditional A/D converters as compared to the A/D converters that allow Direct Sampling, which is arguably the new standard for initial processing of RF.
- We will show third session of the *SDR School*, which details how the direct conversion process results in significant advantage over the beloved Superheterodyne architecture.

PARC's Annual Picnic is getting closer!

The Annual Picnic is scheduled for Saturday September 28 at San Dieguito Park, Area 4, so mark your calendars! We will provide more details in the next newsletter.



An Important Vote to occur at the July 3rd Membership Meeting

A few months ago, after getting an e-mail from one of our members, Glen, AI6RR, Membership Chair, proposed to the club's Board of Directors that they consider granting an Honorary Lifetime Membership to John Hammond, WB6MEI, and the Board agreed.

To complete this action the General Membership needs to have a secret ballot vote and this will happen at the July 3rd meeting.

SCOPE

Updates

- Mark, KF6WTN, reported that Wires X is still running intermittently and he continues his stability work on the Wires-X node, as software keeps crashing on current computer
- John, WB6IQS, reported on the 220 Club Shared Repeater as follows.

On Saturday morning May 25 a friend and I went up to Palomar Mountain to clean up the site and work on the 145.050 digi-peater. We also met Bill Calderwood K1CT of the 220 Club at Mother's Kitchen. He wanted to do maintenance on the 220 Club's repeater. There was a police SWAT problem in Valley Center as well as some sort of a Memorial Day celebration so it was a big problem to get to the site. All roads through the City of Valley Center were blocked.

With the help of Ron KH6HSQ in Fallbrook, I ran numerous checks on the 145.050 digi-peater but was unable to shorten the repeater's hang time on the digital packets. Further testing will be required.

Bill K1CT ran through his repeater's electronic checks and all was OK.

We reduced the fire danger by cutting up a downed oak tree and hauling the wood off site. It was interesting to see the firewood after it was split. The site had burned many years ago and the core of the tree showed fire damage. The tree survived and continued to grow around the fire damage until it was downed last winter.

"A good time was had by all."

Please be sure to thank these folks and all others in PARC who give tremendous amounts of time and effort to make us so successful in all that we do!

Memberships that lapse in July (as of 6/29/19)

CALL	First name	EXP_DATE
N2ERT	TED	Jun 26, 2019
KJ6HIH	MICHAEL	Jun 28, 2019
KK6FFJ	ROBERT	Jul 3, 2019
W6TQS	JAMES	Jul 3, 2019
KC6HUK	JAMES	Jul 5, 2019
NC6K	ERIC	Jul 5, 2019
W6BQZ	KEN	Jul 5, 2019
N6WST	JOHN	Jul 6, 2019
AJ6DI	DAVID	Jul 8, 2019
KC7CJ	SCOTT	Jul 8, 2019
W9BOI	DAVID	Jul 8, 2019
N1OW	JINA	Jul 9, 2019
WB6Vfy	MICHAEL	Jul 9, 2019
AE6O	ART	Jul 11, 2019
W6DTO	DAVID	Jul 12, 2019
KK6YWC	DRAGAN	Jul 15, 2019
W6COM	JOHN	Jul 16, 2019
KK6AZG	WILLIAM	Jul 21, 2019
AF6GM	J. S.	Jul 23, 2019
W6TXK	RONALD C.	Jul 23, 2019
NN3V	CHARLES	Jul 28, 2019
WB6IQS	JOHN	Jul 28, 2019
K6MRM	MICHAEL	Jul 30, 2019

Your PARC Board Members and Committee Chairs

Call Sign	Name	Position
K6JPE	Joe	President
NN3V	Charlie	Vice-President
KB6NMK	Jo	Secretary
W0NI	Tom	Treasurer
AI6RR	Glen	<i>Membership Chair</i>
WB6IQS	John	Director #1
KI6RXX	Greg	Director #2
		<i>Scope Editor</i>
KF6WTN	Mark	<i>Repeater Tech Chair</i>
		Repeater Site Chair
NO6I	Guido	Webmaster