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SCOPE



Congratulations to Michelle Thompson

Don Hilliard, W0PW (ex W0EYE) was an early VHF pioneer. He was involved with the 1967 formation of the Central States VHF Society. By 1985, Don realized that there was considerable development in new microwave technology above 902 MHz. Many microwave terrestrial and EME firsts were occurring on the microwave bands. A conference dedicated to amateur microwave equipment design, construction, and operation was necessary.

Don organized the first conference which he named "The 1296 and 2304 MHz Conference". It was held at the Holiday Inn in Estes Park, Colorado. 66 people attended. The success of this initial effort led to "Microwave Update 86". 64 people attended. The 1987 and 1988 Microwave Update conferences were again held in Estes Park, Colorado and were chaired by Don Hilliard.

After putting on four successful Colorado conferences, Don decided to take a break from all of the work. He turned over the responsibility of coordinating the event to the North Texas Microwave Society (NTMS). The rest is history. With the exception of one year where one of the organizers, Don Lund, passed away, Microwave Update has been held every year. The conference has been successfully organized and run by various local VHF/Microwave clubs and groups around the United States.

In tribute to Don Hilliard and his tremendous contributions to VHF and microwave technology, and for appreciation of his forward thinking into the fascinating world of microwaves, the North Texas Microwave Society on behalf of Microwave Update created The Don Hilliard Technical Achievement Award. It is presented each year to an amateur radio operator who has made significant contributions to amateur microwave operation and technology. The NTMS proposes that this award be presented to a deserving amateur each year by each sponsoring organization.

In recognition of Don's work, the 2018 Don Hilliard Award for Technical Contributions to the microwave community was awarded to Michelle Thompson, W5NYV.



Board Members and Committee Chairs

Board of Directors

President	Joe Peterson, K6JPE	(619) 630-8283
Vice President	Charlie Riistorcelli, NN3V	(619) 68-7617
Treasurer	Tom Ellett, W0NI	(858) 546-1148
Secretary	Tony Zuppero, K5TZ	
Director 1	John Kuivinen, WB6IQS	(760) 727-3876
Director 2	Greg Gibbs, K16RXX	(760) 583-9668
Membership Chair	Glen Christensen, A16RR	(858) 735-1144
Repeater Technical Chair	Mark Raptis, KF6WTN	
Scope Editor	Keith Spears, KM6CXW	(858) 472-8442 Text Welcome

Non Voting Members

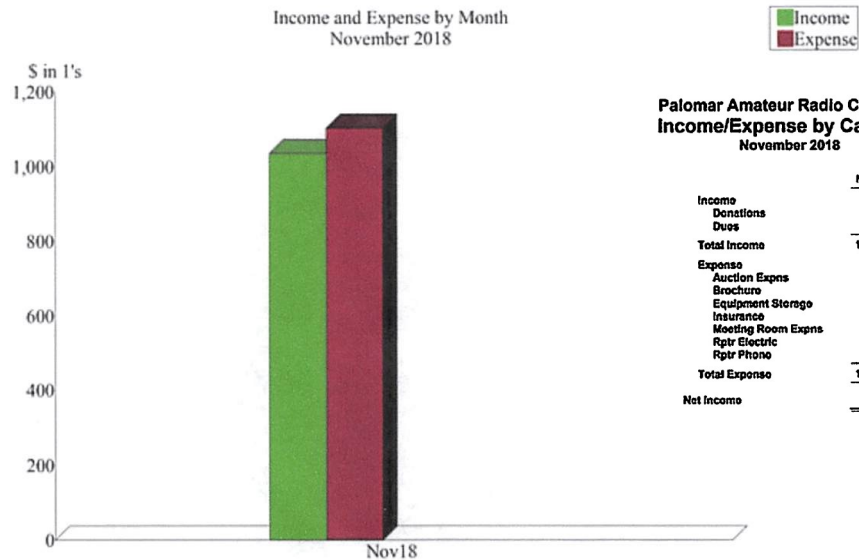
Repeater Site Chair	Mark Raptis, KF6WTN	(Acting)
Webmaster	Guido Sansonia, NO6I	(760)-224-6824
Trustee	Michelle Thompson, W5NYV	mountain.michelle@gmail.com

Committee Chairs

Boy Scouts	Michael Palugod	mpalugod@yahoo.com
Digital ATV	Michelle Thompson, W5NYV	mountain.michelle@gmail.com
Echo Link	Bernie Lafreniere N6FN	N6FN@niftyaccessories.com
HF Remote	HF Remote SIG	hfremote@palomararc.org
Mesh Networking	Michelle Thompson, W5NYV	mountain.michelle@gmail.com
Operating Day		

SD Microwave Group Liaison	Kerry Banke N6IZW	kbanke@sbcglobal.net
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Income and Expense by Month
November 2018

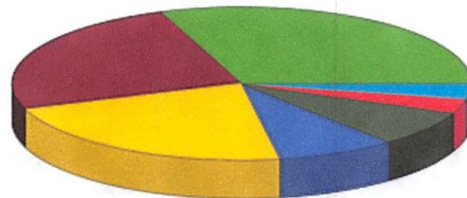


Palomar Amateur Radio Club, Inc.
Income/Expense by Category
November 2018

	Nov 18
Income	
Donations	800.00
Dues	235.76
Total Income	1,035.76
Expense	
Auction Expns	274.50
Brochure	30.15
Equipment Storage	245.00
Insurance	340.00
Meeting Room Expns	86.00
Rptr Electric	93.86
Rptr Phone	34.50
Total Expense	1,104.01
Net Income	-68.25

Expense Summary
November 2018

Insurance	\$340.00
Auction Expns	274.50
Equipment Storage	245.00
Rptr Electric	93.86
Meeting Room Expns	86.00
Rptr Phone	34.50
Brochure	30.15
Total	\$1,104.01



By Account

February Program

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Charlie

For Sale

HP 900 Watt Rack Mount Power Supply: Electronically regulated, current limited. Dual V/A meter displays. Up to 60 VDC at 15 Amperes continuous. HP 2764B with service manual. 120

VAC. \$75, Very Heavy, Works OK.

RF Rack Mount Signal Generators:

HP 8656B, late model with green LED display. Digital keyboard. 100 KHz to 990 MHz, AM/FM modulation. \$120, OK.

Farnell SSG2000, 100 KHz to 2 GHz, fully digital with analog style dial tuning. AM/FM modulation. \$100, Works OK but with minor boot up problem.

Heathkit bench style 300 Watt Regulated Power Supply: Model IP-2760, 10 - 16 VDC, 25 Amperes. Dual meters, "Battery Eliminator". \$50, OK operation.

Prices negotiable. See VB6IQS@cox.net. 760-727-3876.

Scholarship Committee Report

Thanks to the incredible work by Gayle KG60, Michelle W5NYV, and Charlie NN3V we have funded a scholarship with ARRL Foundation under the Palomar Amateur Radio Club name! We will have further information on how your interested family and friends may apply, what the requirements are, and how the decision is made in the coming months. The first scholarship will be available for the 2018-2019 school year! We are still pushing for some additional funds to create a second scholarship, but that will be for the 2019-2020 school year. Keep an eye out for further information later in the year, and remember us when you're preparing your tax write-offs for 2018!

Upcoming Events

February 6th	7:30	PARC Meeting	Pine Ave. Community Center
February 13th	7:00	PARC Board Meeting	Poway Fire Station #3
March 6th	7:30	PARC Meeting	Pine Ave. Community Center
March 13th	7:00	PARC Board Meeting	Poway Fire Station #3

Repeater Status

This list includes W6NWX repeaters operated by PARC and other repeaters open to use by PARC members. All W6NWX repeaters are located on Palomar Mountain and are open to all amateurs.

Frequency	TX	Tone	Call sign	Remarks
52.680	-	107.2	W6NWX	Back on the air
146.730	-	107.2	W6NWX	System Fusion enabled. See Note 1
147.075	+	107.2	W6NWX	System Fusion enabled. See Note 1
147.130	+	107.2	W6NWX	System Fusion enabled. See Note 1
447.000	-	107.2	W6NWX	FM only for EchoLink Call Sign W6NWX
224.900	-	107.2	WD6HFR	Convair/220 ARC
224.380	-	107.2	KK6KD	HARS Hispanic Amateur Radio Society Open
224.940	-	107.2	KK6KD	HARS: Sharp Chula Vista Hospital, Open
145.260	-	107.2	KK6KD	HARS: San Diego Open
147.945	-	107.2	KK6KD	HARS: System Fusion Mt. Miguel Open
448.460	-	151.4	KK6KD	HARS: Mt. Miguel, San Diego Open
145.460	-	110.9	XE2DXA	HARS: Tijuana, Mexico Open
146.970	-	107.2	KA3AJM	Vista-Sponsored by MetroNET
146.175	+	107.2	N6FQ	Fallbrook ARC; linked to 445.600
445.600	-	107.2	N6FQ	Fallbrook ARC; linked to 146.175
145.050	s	N/A	W6NWX-1	Packet node; linked to metro 9600 net 1
146.700	-	N/A	W6NWX-3	Packet duplex repeater; Duplex 3

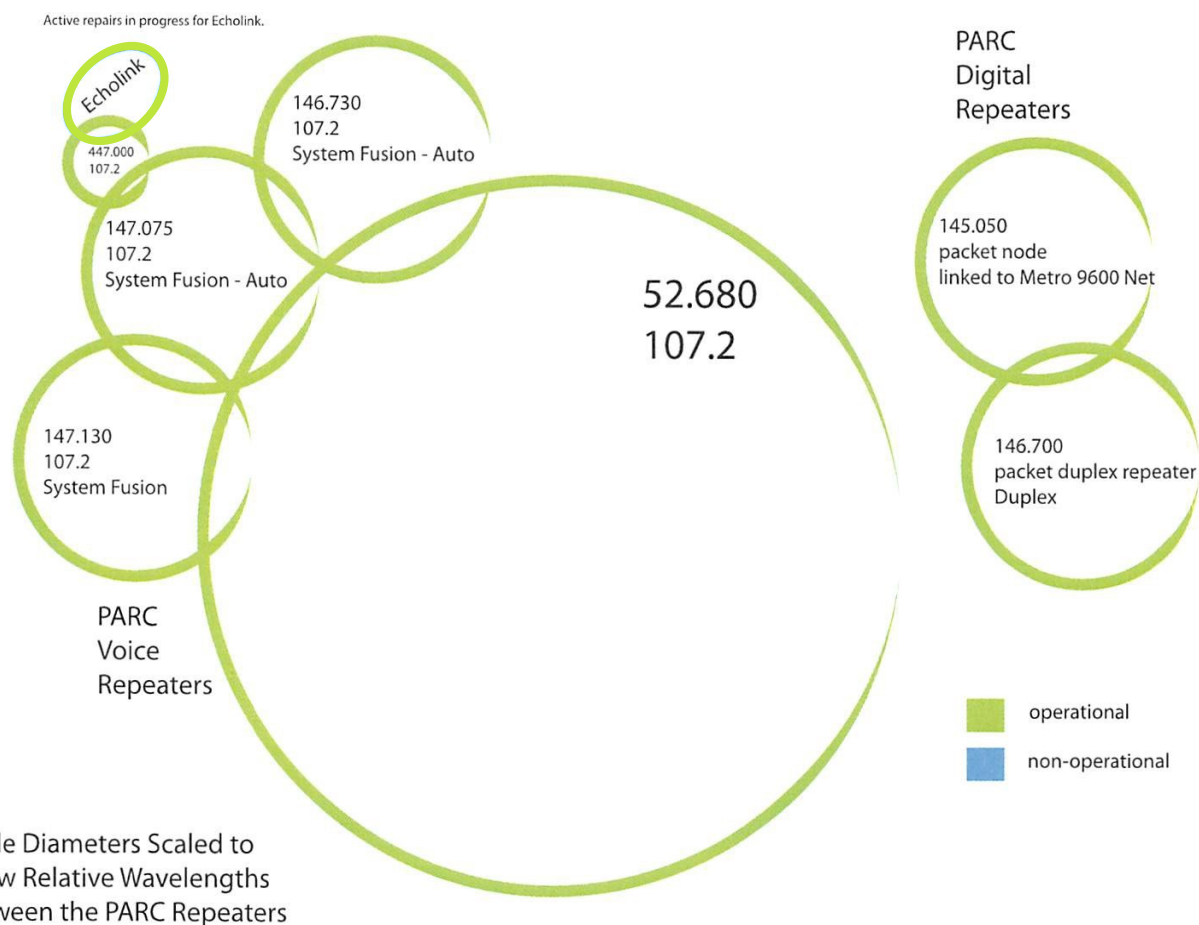
PARC operates an armature fast-scan television repeater. It's currently off the air. Currently there are not links to other ATV sites.

- ATV in: 915 MHz WBFM audio subcarrier 5.8 MHz
- ATV in 2441.5 MHz WBFM, audio subcarrier 6.0 MHz
- Intercom: 146.415 MHz NBFM simplex (tone 79.7). Currently not working.
- ATV out: 1241.25 MHz VSB, NTSC Standard

The PARC repeater site on Palomar Mountain is located at 5560 feet above mean sea level and 2132 above mean terrain. It covers most of San Diego County and beyond into Mexico and out to sea, and is shielded from the North.

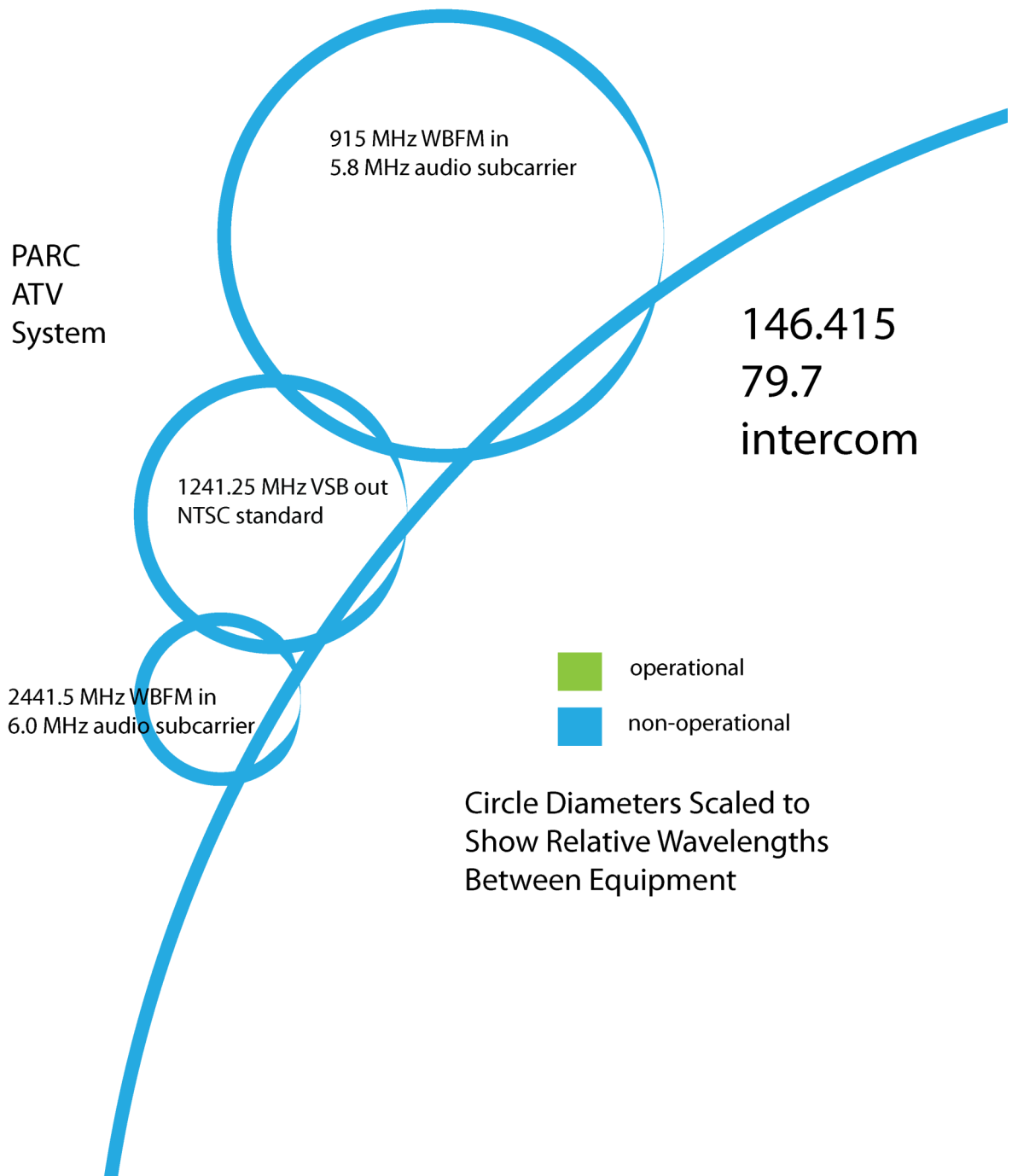
Note 1: All Fusion enabled repeaters require a CTCSS tone of 107.2 Hz to access the repeater and also transmit a 107.2 Hz tone. Since the repeater output has a 107.2 tone you can enable CTCSS receive tone squelch on your transceiver which will eliminate interference from spurious noise and other repeaters. Control operators have the capability of setting the Fusion Repeaters to FM only operation. Consequently if you can't bring up the repeater in C4FM digital mode, try using normal FM mode. When in FM mode all Fusion repeaters have a 3 minute maximum transmit time, after which the repeater will cut off transmission until after the received signal drops. To prevent timing out the repeater after someone finishes talking, wait until you hear the courtesy beep which indicates that the 3 minute time has been reset. If a transmit timeout happens the repeater will provide a voice message indicating that the maximum transmit time has been exceeded.

Reported Repeater Status



Thanks to Michelle Thompson, W5NYV for the repeater status graphics.

Reported ATV Status



Membership Report

You can check the status of your membership 24/7 at Member List or go to the club's website and navigate to Join and click on "here" at the top of the page. Enter your call sign into the box and click the "Look up my membership status

now" button. To renew your membership or extend your membership, fill in the form on the Join page. Make sure you select the correct value from each of the drop-down menus (Type of Membership, How many years, I'm an ARRL Member,

Newsletter option and License Class). If you want to receive an email when your membership is coming due for renewal, please make sure that I have a valid email address for you. To do that, please send an email to MembershipChair@palomararc.org.



Check the status of your membership 24/7 at [Member List](#). If you don't find your name and callsign on that page, then your dues have lapsed. If you have questions, send email to MembershipChair@palomararc.org.

Donate to PARC by Shopping at Amazon

As publicized earlier this year, PARC is now a not-for-profit charity, and funds donated to PARC are deductible for income tax purpose if you itemize. PARC also announced

that in cooperation with Amazon, it is now possible to shop on Amazon at NO cost increase, and have Amazon distribute a percentage donation to PARC.

This is done by shopping on www.smile.Amazon.com. If you choose to avail yourself of this opportunity, when shopping on www.smile.amazon.com,



Polo Shirts

We're ordering Polo shirts! Some of you already have orders in with me from the last meeting, please be ready to pre-pay for them so we can get the order placed ASAP! We need

20 shirts to get the price I've been quoted. If we end up with 30+ then the price goes down and I'll have a little change for those who have pre-paid once your shirts come in! Base price: \$21.00 includes printing on the front, PARC logo on one

side and your name/ callsign over the pocket. Add \$2.00 for 2XL, \$3.50 for 3XL, or \$5.00 for 4XL. Add \$5.00 if you also want the logo printed large on the back.

73 de K6JPE



SCOPE
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PALOMAR AMATEUR RADIO
CLUB

EDITOR
KEITH SPEARS
KM6CXW

Editorial Policy

The Scope welcomes and encourages members to submit articles, photos, stories, equipment reviews and any other items of interest to ham radio.

The Palomar Amateur Radio Club reserves the right to edit all submissions for content and length.

Please submit documents in MS Word format and photos as JPEG or GIF. Flyers may be submitted in PDF.

All submissions need to be received by the 20th of the month.

Send submissions to:

scope@palomararc.org



Palomar Amateur Radio Club

The Back page is a place for humor. If you have a joke, cartoon or just a fun story about ham radio, please share it with me. Please remember

Some New Yeas Resolutions from my friends:

Claim all my pets as dependents on my taxes

Keep it to myself that I have a problem with authority when being Interviewed

Lose weight by living on the moon

Visit the grocery store more often then a restaurant, especially when free samples are being given away

Save some money for a rainy day. So you can shop online instead of Having to go out and get wet

Keep better records throughout the year. That way you can listen to better music when doing your taxes

Stop licking frozen antennas

Watch less TV In standard definition

Stop buying worthless junk on E-Bay., Amazon has better deals

Happy New Year!