

MAY 2015



Save the Date

Club Meeting 6 May 2015

Dr. Eric Wenaas presents about the evolution of early radio detectors. See page 10 for details.

Board Meeting 13 May 2015

Palomar Amateur Radio Club board meeting at 7:00pm at W6GNI QTH.

Club Events 2 May 2015

Dayton, **Operating Day May 2nd at Fry's**, Bay Area Maker Faire, and many other events!

Advertisements are free for members

Have items that need to find a new home? Advertise here! Send your ads to scope@palomararc.org

Spectrum Analyzers, two HP141T working mainframes. HP8555s (10 MHz - 22 GHz) parts units, HP 8554s (good 1.2 GHz) and HP8553 (good 110 MHz) RF plugs ins. With HP8552A & B I.F. modules. Lots of spare parts. Make offers. WB6IQS@amsat.org. John, Vista.

Wanted: E. F. Johnson electronic T-R switch, working or not. Matt, 619-865-8497, ae6hf@arrl.net. Thanks, Matt AE6HF

Nonoperational => Operational

The Ham Radio Lunch Bunch meets Fridays for lunch and socializing at any one of a number of restaurants on a rotating schedule.

The Lunch Bunch signup is <http://w0ni.com>

Reminders are sent out on Wednesdays.

All are welcome for food and fun!

Some of the restaurants on the schedule are Fuddruckers, UTC Food Court, Spices Thai, Savory Buffet, Denny's, Callahan's Pub and Grill, and Phil's BBQ.

The 6m repeater has been nonoperational for 3 years as of February 2015. John W6JBR, Bill N6PIG, and Michelle W5NYV have picked up the project and made a lot of progress since beginning work on 1 February 2015. The team is approaching the repairs as an open source and open process project. The tracking document, which is a chronological record of the work done on the repeater, is located here:

<https://docs.google.com/document/d/1vrlMv0jMd83iTxgk8H1ZgbULF-comYmVPwpy3Uqz2-c/edit?usp=sharing>

A final report will be written and published once the repeater is re-installed at the repeater site on Palomar Mountain.

Is there a piece of hardware or software that you would like to work on to benefit the club? The Scope is interested in your proposals!

Send them in to scope@palomararc.org

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AMSAT-NA Opportunity for Rideshare to Geostationary Orbit

AMSAT is excited to announce that we have accepted an opportunity to participate in a potential rideshare as a hosted payload on a geostationary satellite planned for launch in 2017. An amateur radio payload, operating in the Amateur Satellite Service, will fly on a spacecraft which Millennium Space Systems (MSS) of El Segundo, CA is contracted to design, launch, and operate for the US government based on their Aquila M8 Series Satellite Structure.

A meeting to discuss this potential rideshare took place on April 13 at Millennium Space Systems that included Dr. Bob McGwier, N4HY; Franklin Antonio, N6NKF, co-founder of Qualcomm; Jerry Buxton, N0JY, AMSAT Vice President of Engineering and member of the board for AMSAT-NA; Dr. Tom Clark, K3IO, Director and President Emeritus of AMSAT-NA; Phil Karn, KA9Q; and Michelle Thompson, W5NYV.

Hosting the meeting for MSS were Stan Dubyn as founder and chairman of MSS, Vince Deno as president of MSS, Jeff Ward, K8KA, of MSS as VP for Product Development, formerly with SSTL and University of Surrey Space Center, and Ryan Lawrence of MSS as Project Manager on the spacecraft mission. Attending by telephone were Dr. Jonathan Black, Associate Research Director of Hume Center for Aerospace Systems and Associate Professor of Aerospace and Ocean Engineering and Dr. Michael Parker, KT7D, founder of RINCON Research Corp.

Following the meeting, Dr. Bob McGwier, N4HY, Director of Research at the Hume Center for National Security and Technology of Virginia Tech, and former director and former VP Engineering of AMSAT, described this as an opportunity to go forward with "AMSAT-Eagle" which, in the 2006-2008 timeframe, evolved into a microwave payload to be flown to geostationary orbit as a hosted payload. It would have provided digital communications to small terminals on the ground and a linear bent pipe transponder had it flown. This failed to go forward in part due to lack of an affordable flight opportunity.

McGwier outlined the next steps toward developing this mission:

1. To organize an effort at Virginia Tech to make a firm proposal to MSS and its US government sponsor, and organize an effort to raise sufficient funds to



(L-R) Sonya Rowe, KK4NLO; Jerry Buxton, N0JY; Bob McGwier, N4HY; Franklin Antonio, N6NKF; Tom Clark, K3IO; Michelle Thompson, W5NYV; and Phil Karn, KA9Q standing next to the Aquila M8 Bus flight article.

- pay for development of the mission.
2. Enable Dr. Jonathan Black to lead the construction project at Virginia Tech in the Space@VT Center. Sonya Rowe, KK4NLO, Project Manager at the Hume Center will be the project manager.
3. Work for development of a low-cost microwave ground station for amateur radio still needs to be determined.
4. Dr. Michael Parker, KT7D, will solicit the cooperation of the Rincon Research Corp. for development of the software radio technology for this payload.

The AMSAT Board of Directors has accepted the invitation to participate in this potential rideshare payload opportunity. AMSAT expects to be involved in the development of the ground station and the payload RF development, and will serve as the amateur radio (hosted) payload operator once the satellite has been launched.

McGwier summarized, "The launch is currently scheduled for 2017 and the payload must be delivered for testing and integration by Spring of 2016. It is an ambitious schedule and all involved will have to gain and maintain a serious level of commitment to that which they agree to undertake." AMSAT President, Barry Baines, WD4ASW, said, "The AMSAT leadership is excited to fly a Phase-IV geostationary amateur satellite payload. This is an evolving development as we

collaborate with the VT Hume Center with a project that provides technical challenges to create a new amateur radio capability in space that will provide a variety of benefits not only for amateurs but also for emergency communications and STEM educational outreach."

The transponder is expected to support a wide range of voice, digital, and experimental advanced communications technologies. A decision is expected soon specifying the microwave uplink and downlink bands.

Additional information on the Aquila M8 Series Satellite can be viewed on-line:

<http://www.millennium-space.com/>

[http://www.millennium-space.com/
platforms#aquila](http://www.millennium-space.com/platforms#aquila)

You're invited to find more information about AMSAT on our web at:

<http://www.amsat.org>



President's Corner

Many good opportunities are coming up for PARC members to have fun on the ham bands.

On 2 May, the Club is sponsoring an operating day at Fry's in San Marcos. A great chance to come out and enjoy the HF bands, especially if you live in an antenna restricted location. Speaking of antenna restrictions, below we again are publishing the ARRL call to communicate with your Congress elected representatives urging them to support H.R. 1301, the proposed legislation that would require Home Owners Associations (HOAs) to abide by the FCC regulations for Amateur Radio. Have you communicated with our Congressional delegations in Washington, D.C.? Needless to say, Field Day is around the corner. Have you marked your calendar on June 26th - 28th to come and enjoy the fun and challenge of Field Day? As always, we will start the Field day set up on at noon Friday, May 26th., and operate continuously Saturday -Sunday, with tear-down of the equipment on Sunday

There is another opportunity for volunteering to help PARC remain up to date. We've benefited by the many years of service Al (W6GNI) has given PARC as the membership chairman. Keeping track of the status and records for some 260 club members is an act of kindness to all of us. To help keep the records in order, we are looking for a club member who would be willing to serve as an Assistant to Al. The duties are fairly straightforward. All the club's membership records are maintained in a spreadsheet program that is completely accurate thanks to Al. If you would consider volunteering for this effort, please see Al.

It is unfortunate that I must tell you KG6JEI (Conrad) has resigned from the Club's Technical Chair position for personal reasons. His service and willingness to support every operation of the Club will be missed.

It is fortunate that KF6WTN (Mark Raptis) has volunteered to assume the Club's Technical Chair duties. Several years ago Mark performed many technical support efforts for the Club. Welcome back Mark.

-Charlie NN3V

ARRL Announcement

From the ARRL:

"The Amateur Radio Parity Act of 2015 -- H.R.1301 -- has been introduced in the US House of Representatives. The measure would direct the FCC to extend its rules relating to reasonable accommodation of Amateur Service communications to private land use restrictions. US Rep Adam Kinzinger (R-IL) introduced the bill on March 4 with 12 original co-sponsors from both sides of the aisle -- seven Republicans and five Democrats."

It behooves every ham, whether an ARRL member or not, to make their vices heard in Congress (House as well as Senate) about how important getting this bill passed is for the amateur radio service.

Having fought the battle for antennas in Poway, I don't need to tell you that this is an opportunity to nullify some of the special interests that oppose ham radio.

Should this measure be enacted, thousands of hams nationwide will be able to re-enter the hobby which they have been denied by "Ms. Clipboard".

The ARRL webpage at <http://www.arrl.org/hr-1301> extensive coverage of this, and includes draft letters recommended to be sent to Senators and Congressional representatives, including links to you individual Senator or Representative (determined by your Zip code).

I urge you to get involved in making your voice heard, for the benefit of all our fraternal amateur radio operators.

SDIMA Demonstration Success

by Dennis KD6TUJ

Palomar Amateur Radio Club was invited to participate in a community emergency preparedness fair held at 1444 Lake Drive in Cardiff. This location is the Cardiff Ward of The Church of Jesus Christ of Latter-Day Saints. Many other organizations were present. Most of the event was held in the courtyard (patio for us southern Californians). Helping to enlighten the guests were Richard KJ6WUY, Ron W6TXK, Gary W6GDK, and Dennis KD6TUJ. Richard and Dennis brought down the "canopy display" and Richard's setup for HF including his "portable" antenna. Setup was OK, as we had to bring the equipment through the front door to the side portal to the courtyard. The Mayor of Encinitas, Kristin Gaspar, came to welcome guests and interact with the displays. We did not know this was to occur. She came to our display first as we were the first she saw from her point at the "front" of the crowd. She asked who was our PR spokesperson. Suddenly three hands pointed to Dennis. Guess Dennis is the spokesman! Why is amateur radio the communications choice? Our systems are not on fancy computers and links that can be affected by earthquakes and loss of GPS signal. Palomar ARC also has about 2 weeks of battery supply to maintain the repeaters on the air during loss of power situations. Lots of people came to ask questions, including scouts and their leaders. The weather was good, mild temperatures, sunshine, and no rain. We have already been asked to come back next year.



Congratulations to the Team!

California QSO Party

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San Diego County

During the 2014 California QSO Party

1,816 Contacts

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John Miller

John, K6MM, CQP Webmaster

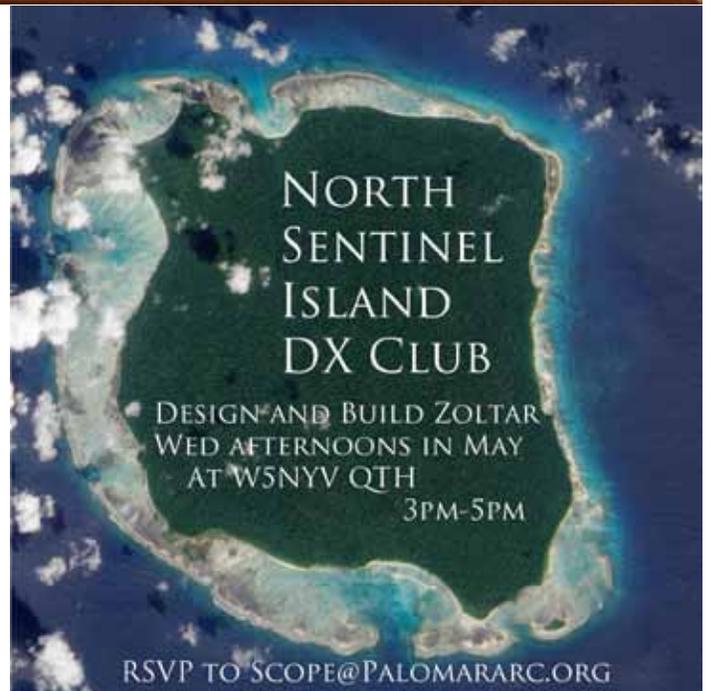
NCCC

Chris Tate

Chris, N6WM, CQP Chairman



Spokesman Dennis KD6TUJ!



Repeater Site Work Party Report

by John W6JBR

On Saturday 4/24/15, an ad hoc repeater work party headed by John WB6IQS, accompanied by Rich, NI6H, and I, headed up to the PARC Palomar Mountain repeater site. Our primary objective was to ascertain the status of the 146.700 MHz duplex digital repeater, and make repairs as necessary. Users of this repeater, including Ron, KG6HSQ, Rich, and I, had recently determined that it had ceased to allow throughput, so connections could not be made to known good WinLink nodes such as KG6HSQ-10 and XE2BNC-13.

Upon arrival at the site, John made basic checks of the repeater's power supplies, which tested good. He then proceeded to check the operation of the receiver and transmitter individually. He also checked the receiver input using Rich's portable packet station. The repeater receiver appeared to have an issue with sensitivity, and the transmitter could not be keyed locally. Due to the inclement weather, and possible need for parts not on hand, it was determined that the best course of action would be to remove the repeater from the hill and take it back to John's home lab, where he could affect repairs. The transmit antenna for this repeater was checked for SWR, directly, and via the cavities, and was found to be working as expected.

The repeater was removed, and secured in John's truck bed with ropes, covered by a blue tarp from the main storage container on site.

While working on the repeater, we had aired out the battery room. We then proceeded to check the batteries for electrolyte level. Approximately 7 cells were topped off with distilled water. The charger voltage measured 54.5 VDC on my DVM.

A brief site survey was then made. John checked the tower guy wires. We looked for any possible tree branches or debris that might threaten the guys. I took several pictures of the main tower and antennas (below). Visibility and detail were hampered by the thick fog and ongoing drizzle.

The site was then secured, and we departed.

Respectfully submitted,

John Rotondi
W6JBR
w6jbr@arrl.net



Club HF Remote Station? Let's Install One!

There are at least three reasons for the club to get involved in the HF remote movement. The first one is technical. The challenge of making a quality remote installation is fun and rewarding. The project involves backhaul establishment, HF equipment selection, remote access protocol development, command channel identification and establishment, testing and tuning, documentation, and training, among other things.

Secondly, autopatch and casual repeater usage has declined due to the increase of cellular coverage. Exploring new services that can be offered from club equipment on the Palomar Mountain property is an important responsibility. A new broadband repeater has been installed, and fresh hardware for the voice repeaters is under active investigation. Adding an HF remote station would expand the services provided by the club. This is an exciting time to get involved with renovating equipment on the site.

Third, many members are negatively affected by CC&Rs and other limitations on putting up HF antennas on their San Diego properties. We live in an urbanized area where antennas may or may not be allowed. Plenty of us live in valleys or in places that are not good for radio. Having a remote station that members can reserve and use would go a long way towards making the hobby possible for people that live in places where radio is limited.

If you would be interested in helping explore a club remote HF station on Palomar Mountain, then please join up by writing me at scope@palomararc.org and I'll add you to the mailing list!

Mailing list archive located at <http://palomararc.org/pipermail/hfremote/>

This special interest group for HF remote will write a proposal for the Palomar Amateur Radio Club board of directors to vote on. If the vote is successful, then fundraising will begin immediately.

Current state: We think PARC needs to be 501c3 in order to get the required equipment.



John WB6IQS checks the repeater power supply.



May Program: Evolution of Early Radio Detectors

Dr. Eric Wenaas will be our program presenter at the May meeting. This presentation will cover the evolution of early radio detectors from the time of Heinrich Hertz in 1887 to the dawn of the broadcast era in the early 1920s. The talk will be accompanied by actual examples of each detector type, such as the Marconi Magnetic Detector shown below. It will also be accompanied by several demonstrations to illustrate the operation of certain devices such as the coherer.

Eric P. Wenaas has had a lifelong passion for antique radios beginning with his first Radiola and crystal set given to him as a young man growing up in Chicago by family friends. He experimented with radio devices and repaired radios and televisions as a hobby while in high school, and went on to study electrical engineering at Purdue University. At SUNY in Buffalo, NY, he earned a PhD, and then spent many years in the Defense industry

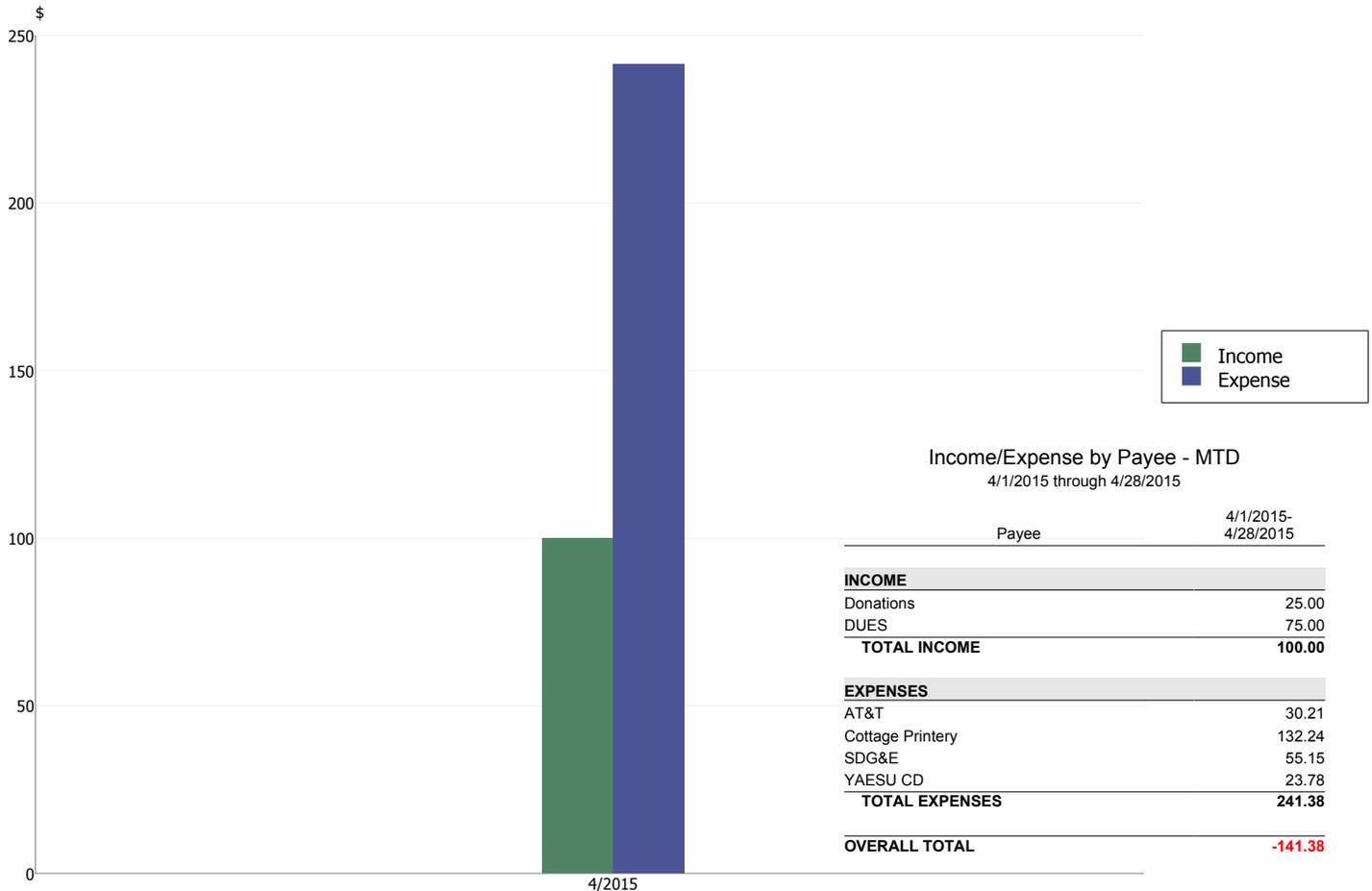
In 2002, he set out to research the early days of wireless and document interesting historical vignettes based on original documents of the era. He has written numerous articles for the *Antique Wireless Association (AWA) Review*, the *AWA Journal* and the *Antique Radio Classified*, and published a critically acclaimed book in 2007, *Radiola: The Golden Age of RCA - 1919-1929*, covering the early history of RCA—including the formative years of the Marconi Telegraph Company of America.



Club Financial Update

Income/Expense by Payee - MTD

4/1/2015 through 4/28/2015



Preliminary Data, 146.700 Repeater Repairs

Receiver Bench Testing:

I swept the receiver and noticed that it was about 8 KHz high in frequency. The I.F. (11.7000 MHz) was correct and the channel element had drifted off frequency. Checking the receiver connections and I.F. alignment all seemed nominal so I re-adjusted the trimmer capacitor on the channel element and the receiver picked up about 10 dB in sensitivity (at 146.100 MHz). The discriminator audio output was now symmetrical for FM modulated tones. I will re-do the receiver alignment later but even at the 146.108 MHz receive frequency it was a little numb at -100 dBm sensitivity to break squelch. Now it is -110 dBm at 146.100 MHz and that is more like normal.

TX Issues: The transmitter keying is still not working. Working on why the P.T.T. (push to talk) signal is not being keyed by the TNC. It may be Motorola module problem because even with the locally keyed P.T.T. there is still no TX RF output.

John Kuivinen, WB6IQS
Vista, CA.

Art McBride KC6UQH Silent Key

It is with sadness that I pass along the news that Art McBride KC6UQH passed away today, April 16th at 9:10 AM. Art became a silent key at his home in Vista after a long fight with brain cancer. He contributed much to our amateur radio community and I will always remember his broad smile as he explained his microwave station at PARC field days. Art was a wonderful human being with an infectious zest for whatever he pursued. He will be missed by us all.

73 de Tom - W0NI

Art was a gentle soul. He was extremely knowledgeable and was gifted with the ability to explain stuff so that even I could understand it. Rest In Peace, my friend.

73 de N6UWW (ps - say hi to my Dad when your wings touch his)



The way he spent a lot of his time: talking with others!

HAM RADIO

Jose XE2SJB
Jerry N5MCJ
Joe N6SIX

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Art was a great elmer and always had a great attitude whenever you interacted with him. He represented the best of ham radio. Highly intelligent but accessible. I will never forget the field day where he demonstrated satellite communication to my teenage boys. Both had their tickets but were clueless about satellite. Art patiently explained to them how it all worked and did a great demonstration. And who can forget "Art the Auctioneer". Years of "What do we have here? Weellllllll!!!, it's a box of broken Midland 11 meter radios.....who wants to say 10-4 good buddy? You won't have to feel bad either cause no one will hear you or respond....cause they're.....broken"

Back in the late 90s, we had a commuter net in the morning and the evening and I would frequently talk to Art. His laugh was infectious and his comments were great.

"Off to the button factory"

"Is it possible that the DMV actually certified the vehicle that just cut me off as safe for the roadway??"

He had a sing song way of announcing his call sign and used to joke that UQH stood for "UnQualified Ham" which could not be further from the truth.

I am sure others will relay all the stories of his contributions to PARC but I just remember he was fiercely committed to the club and a friend to all. One last 73 Art – You made us all better.

Michael KF6HCL

 **Dirk Reschly** The EARS board was meeting when we learned about this. Very sad news. He helped our club with our auction and added an educational component. He will be missed by all who knew him.
April 16 at 11:51pm · Like ·  2

 **Alf Pettersen** RIP Art, you will be missed but not forgotten.
April 17 at 2:52am · Like ·  1

 **Ron Rosson** Rip Art,, you will be missed by all that had the pleasure of knowing you.
April 17 at 3:35am · Like ·  2

 **Donald Johnson** Art Will be missed by everyone
April 17 at 6:36am · Like ·  2

 **Tom Martin** RIP Art. You will be missed by all. Love to watch you at the clubs Auctions.....73 my friend
April 17 at 6:40am · Like ·  3

 **Richard Scardino** Art you will always be remembered and missed. Thanks for providing my start in this hobby some 20 years ago. Now you get to work a new grid square.
April 17 at 7:03am · Like ·  1

 **Robert Wynne Johnson** The satellite station on field day will not be the same without Art.
April 17 at 9:31am · Like ·  1

 **Jo Ashley** 73 Art! Hope you are with your son! You will be missed here!
April 17 at 9:38am · Like ·  1

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Art KC6UQH - PARC Contributor

by Paul KB5MU

To understand all the contributions that Art McBride has made in his years with the Palomar Amateur Radio Club, I searched through the Scope archives for his callsign, KC6UQH. Here are some of the things I found, in memory of Art.

In July 1991, Art shows up in the New Members listing. "New member Art-KC6UQH is interested in antennas, DX, and Satellite Communications." As soon as the August issue, Art is listed in the Field Day report as helping with "building, testing and refurbishing antennas." By the September issue, in the Picnic report, Art has already started dreaming up new ideas for the club. "Art is Chief Engineer for Ocean Satellite Systems in S.D. and showed some interest in a DFing station located on Palomar Mountain." By November he is setting up equipment at club meetings for members to check their mobile equipment, and attending the club's Executive Meeting. At the November meeting, the club's Nominating Committee tapped Art to be the club's next Vice President, serving with President Harry WA6YOO (now W6YOO). New member to Vice President in half a year!

Art served as Vice President for three years, 1992-1994. As Vice President he was responsible for arranging the speaker at club meetings, and he is seen in every issue of the Scope announcing the speaker for the next meeting. He also actively managed Show and Tell for most of the meetings, and often had items of his own to show. In 1993 he even organized the club Picnic.

During that time he became increasingly active with maintaining the club's repeaters. He shows up doing significant work at nearly every work party, of which there were many in those years, starting in October 1991. In November 1992 he was listed as the repeater technician in charge of the 147.075 MHz repeater. In August 1993 he was installed the fancy new autopatch controller at the repeater site. By September 1994 he was also the technician in charge of the 147.130 MHz repeater. In January 2003 Art was officially designated the club's ATV guru. In July 2003 Art established and began to operate the club's test equipment pool for loan to members. Art was active in maintaining the repeaters through 2014.

Art's technical contributions weren't limited to PARC. In March 1993 we read about him

tracking down a stuck transmitter on the EARS repeater, and then in July 1994 he's helping with cavities for the San Diego 220 Club's repeater. Later that year, he was working on filters and pre-amps for that repeater.

He served as net control on the Ham Help Net and later on the License Theory Net as well, and continued to check in and answer questions, and occasionally ask them.

Many will remember Art as the auctioneer for the annual club auction in October. He first shows up in the Scope helping with the auction in 1993, then as auctioneer in 1996, and most recently as auctioneer in 2014. He also served as auctioneer for EARS for many years.

A new era for the club dawned in December 1994 when Art took over as club President, after Harry WA6YOO resigned. Art was to serve as President for several years. Art immediately started writing a monthly column for the Scope, which he called "President's Wavelength". It would usually include thanks and praise for members who had accomplished something for the club, starting with outgoing President WA6YOO:

"Under Harry's tenure we have seen our Club's membership almost double in size. In 1992 we held our meetings in the cafeteria of Lincoln Middle School in Vista. We outgrew the Vista site and we moved to the Carlsbad Safety Center in 1993. We placed First in Field Day in our category (5A) in 1992 and 1993. We added five new repeaters to our site on Palomar Mountain including an ATV repeater. Our autopatch system is in its second generation and now serves four repeaters. We have a new repeater building that is full and another building ready to fill. We have a cooperative agreement with Challenger Junior High to introduce Amateur Radio to students. We are designated a Full Service Club by the ARRL. We offer license classes. We also conduct VEC testing the second Saturday of each month. We hold 11 different special interest nets on our repeaters. We publish a 12 page news letter each month."

He's also offer personal insights into amateur radio. In February 1995, "I am enjoying ATV. It allows full communication (sight and sound) between Amateurs. Body language especially facial expressions fill in the gaps that are left up to interpretation when using other modes of communication." In May of 1995, the club began transmitting its meetings on ATV.

Now and then, he'd offer some advice from his

own unique perspective. In February 1995, "All of us are human and some of us built most all of the equipment that our Club is operating. Our repeaters have one of the best operating records of all the Amateur repeaters in San Diego County, while a private local system that used all new equipment has had several failures this past year. Those of us that built the equipment always hear about the "problems", and most "problems" are traced to outside interference. Please be considerate when venting your frustrations to a Member who built the system you are complaining about. They most likely have spent several hundred hours making and maintaining the equipment you use. They are understandably more sensitive to complaints and solving technical problems is best done in a nonemotional atmosphere. I for one can assure you that I, as a equipment builder, have a defense for my creations lurking in my subconscious at all times. Push the right buttons and it will come forth quicker than lightning, in the most technical terms I can muster."

Very often, the President's Wavelength would include a call to action. In June 1995, "Field Day is almost here. We still need everyone's help in making this Field Day a success." This message could appear in every June issue from now on.

In December 1995, "Just as a ship has a compass to maintain a steady course, I have found my compass to guide our Club in the Five Purposes of the Amateur Radio Service as stated in Part 97.1 of the FCC Rules and Regulations. (A) Our repeaters are dedicated to Emergency service groups during an emergency and we hold several nets for several Emergency Service Groups. (B) Improving the state of the Radio Art requires innovation and Innovation requires risk taking and experimentation. I have tried to promote both. (C) We learn by doing. Those who claim there is only one way to do something, forget that we as Amateurs must learn from our mistakes and experimentation. (D) In the short time I have been an Amateur, I have seen growth in the skills of myself and many others, making for a larger pool of operators, technicians, and electronic experts in the Amateur Radio field. (E) Continuation and extension of the amateur's unique ability to enhance international goodwill. I prefer to apply this to all areas Locally and Nationally as well as International. Our Club has done well in this regard, and I am pleased that we have some of the most friendly repeaters in the County.

"The founders of Our Club had the wisdom to choose Five Stars for our Logo to represent the

Five Purposes of the Amateur Radio Service. I am sure this was their way of reminding new Captains like me, that a Compass has been provided for."

Art didn't stop writing for the Scope after his term as President was over. In March 2002 he introduced a long article about recent happenings this way. "In the Forties of the previous Century a theory to explain why things happen was called "Theory of the Universal Principal of Perversity" The classic proof of this theory was given to the probability that buttered bread, when dropped, would land on the floor with the buttered side up approached zero, and even less when peanut butter and jelly have been added. Other observations include wires and cables that always seem to intertwine themselves in to a hopeless tangled mess, the stalled engine that will not restart because the gear selector is still in drive, or the service call to find the equipment is either not plugged in or misadjusted."

The sad duty of reporting the passing of club members fell to Art several times over the years. In 2002 he wrote about N6OLE, "Ivan also had an infinite amount of patience in teaching others. He would try to explain a thought in several different ways using analogies to help others to understand a technical concept. He was always helpful and shared his knowledge, never withheld any information he had on a technical subject. Ivan definitely learned by doing and he shared what he learned with everyone that was interested.

"His analytical mind retained almost everything he learned and his knowledge extended far beyond electronics. A great man, who will be missed by all those who seek knowledge, and remembered for his willingness to share his knowledge with all who would take the time to ask him."

Check out the Scope archives on the club's web site for much more of the wit and wisdom of Art McBride, KC6UQH (SK).

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PERIODICALS

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Featured Program:

At 7:30pm on 6 May 2015, Palomar Amateur Radio Club will have a program. Dr. Eric Wenaas presents about the evolution of early radio detectors. See page 10 for details. We look forward to seeing you at the Carlsbad Safety Center, 2560 Orion Way, Carlsbad, CA. Arrive at 7:00 for socializing.

Sign up for the PARC Email Lists:

<http://www.palomararc.org/mailman/listinfo>