

# Palomar Amateur Radio Club

Volume XXXI No. 10

October 2004

## October Meeting

**In place of the monthly club meeting PARC will hold it's annual auction**

**Wednesday, October 6th**

Doors open at 6:30 PM for sellers to register and position their equipment. Buyers are requested NOT TO ENTER the auction hall.

Auction will begin at 7:00 PM.

PARC collects 10% of the sale price obtained. Sellers may voluntarily choose to donate the equipment to PARC, in which case PARC collects the entire sale value.

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## President's Message

### ARE YOU READY FOR THE PARC AUCTION THIS MONTH?

Well, as the saying goes, ask and your wish shall be granted. I am extremely pleased to announce to our readership that W6MYP (Michelle) has graciously stepped forward and taken up the bat as Scope editor. **WELCOME MICHELLE!** You folks reading these lines will find a note from Michelle below. And as has always been the case, remember, if you want variety in Scope, send your written contributions to [scope@palomarc.org](mailto:scope@palomarc.org), or via regular snail mail to the Club's post office box.

I must add a note of thanks to NA6RS (Ron) who faithfully supported the Club

through his move to the East Coast, and the worldwide travel he was called to undertake as part of his job. Ron, on behalf of the PARC membership, you have our heartfelt thanks and wishes that all may go very well for you as you settle in to your new surroundings. Remember whenever you fly into San Diego to look us up on the repeaters. We will keep a light on for you!

Renewed interest in other Club activities is also noted in the repeater site support. It is my pleasure to officially welcome W5NYV (Michelle) to the role of assistant site coordinator. Michelle spent time with AB6QT familiarizing herself with the site's



PARC

condition. She also brings to us the advantage of living on Palomar Mountain, and is already making her mark in coordinating some of the unseen activities needed to keep the repeater site in good terms with the family of Palomar Mountain residents. She will take on a principal role in assisting AB6QT, with the support of

*(Continued on page 2)*

## Editor's Note

Hello all. I thought I would take up a few lines in this month's newsletter to tell you a little bit about myself. My name is Michelle—W6MYP. I have been a PARC member for about 3 years now. I received my General Class License a year ago after taking Jim's—NE6O class. With his assistance and several others who were willing to give me tips on learning the code, I eventually passed.

I'm one of those people who is a "Jack of all trades, master of none". When I heard Ron's plea for someone to fill in as Scope Editor I thought..."I think I can do that". So here I am. I cannot repair repeaters or climb towers so this is my small way of giving back to ham radio and to the PARC members who have helped me along the way.

I hope that I can, with your help and feedback, produce a Newsletter that you enjoy. This is your newsletter... I'm just the conduit that puts it all together. Please send me your stories, your birthdays, announcements and other articles to cover the white spaces!

73 Michelle W6MYP

(Continued from page 1)

KD6VHI as she "learns the ropes". Many of you have become accustomed to talking about AB6QT as "Mountain Mike", and KD6VHI as "Valley Mike" as they deal with the site technical and maintenance issues. Well, you can refer to W6MYP and W5NYV as "Valley Michelle" and "Mountain Michelle" respectively as well. And ***it is not true*** that you must be named Michelle or Mike to be an active participant in repeater site activities!

Those of you who expressed interest in Echo Link, you will find the subject matter is under supportive consideration by your Board. Details in the Board minutes. Likewise, I am pleased to announce that KC6YSO (Dave) is taking on the maintenance and care of the 6 M repeater. And what wonderful repeater it is for those of you equipped with 6M, including mobile. I find it covers anywhere in the County where I drive, and it is just like having your own private channel. ***TRY IT!***

For those of you who like to consider the possibilities of hamfests, and who wish there was an exciting hamfest near us, I am pleased to announce that the Yuma Hamfest is gearing up again after many years of dormancy. You can find the details at their website <http://yumahamfest.com/> The hamfest will take place 18 - 20 February 2005, and many "in the know" believe it could easily rival Dayton if it gathers the requisite support from West Coast hams (as Dayton gets support from the East Coast). I

plan on attending. Yuma is in our backyard almost. And, for those who wonder, yes, the IOOK plans a mass attendance at the event. So make your plans soon.

73 de NN3V

## P.A.R.C. Inc (2004 Board)

**Pres:** Charlie Ristorcelli **NN3V**  
858.676.3307 NN3V@amsat.org

**VP:** Dennis Baca **KD6TUJ**  
760.722.0251 KD6TUJ@amsat.org

**Sec:** Dick Kalkofen **K6KAL** 760.519.0670  
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**Treas:** Jo Ashley **KB6NMK**  
760.741.2560 KB6NMK@amsat.org

**Dir#1:** Merle Risdon **KR6BT**  
760.941.0213 KR6BT@amsat.org

**Dir#2:** Steve Early **AD6VII**  
619.461.2818 AD6VII@amsat.org

**Repeater Site:**  
Michelle Thompson **W5NYV**  
858.229.3399 W5NYV@amsat.org

**Membership:**  
Al Donlevy **W6GNI**  
760.630.3096 W6GNI@amsat.org

**New Member:**  
John Earnest **KG6EQU**  
858.484.8579 KG6EQU@amsat.org

**Repeater Technical:**  
Mike Doyle **AB6QT**  
760.742.1573 AB6QT@amsat.org

## Contest Coral

Oct 2 TARA PSK Rumble Contest  
Oct 2 Oceania DX Contest, SSB  
Oct 2 EU Autumn Sprint, SSB  
Oct 3 California QSO Party  
Oct 3 RSGB 21/28 MHz Contest, SSB  
Oct 6 432 MHz Fall Sprint  
Oct 9 Oceania DX Contest, CW  
Oct 9 EU Autumn Sprint, CW  
Oct 9 Pennsylvania QSO Party  
Oct 9 FISTS Fall Sprint  
Oct 10 NA Sprint, RTTY  
Oct 10 10-10 Int'l 10 Meter Sprint  
Oct 16 JARTS WW RTTY Contest  
Oct 17 RSGB 21/28 MHz Contest, CW  
Oct 30 CQ WW DX Contest, SSB  
Oct 30 10-10 Int'l Fall Contest, CW  
Nov 6 ARRL Sweepstakes, CS  
Nov 13 Worked All Europe, RTTY

The major contest season is upon us again. The California QSO Party is the first weekend in October with the CW WW coming towards the end of the month. Lots of CW, RTTY, and SSB contests to please almost everyone. You can find the rules and lots more in the contest sections of QST, CQ, NCJ, and Worldradio. CU in the contest.

73, Harry/W6YOO

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*An address to remember:*

**[www.rfparts.com](http://www.rfparts.com)**

**e-mail: [rpf@rfparts.com](mailto:rpf@rfparts.com)**

**Send for your FREE 2004 Catalog or visit our website.**

**PARC Repeaters**Palomar Mt. Repeaters (W6NWX)**PARC Trustee: AB6QT****\*52.680- W6NWX, -0.5 MHz****Autopatches:****146.730-, 147.075+****\*147.130+, \*447.000-****PKT:****145.050s (PALOMAR/W6NWX -1)****146.700- (Duplex Pkt) PALBBS/EMG****use****145.070/146.7- (W6NWX-3/PALBBS)****ATV"IN":****915 wbfm, 2441.25 wbfm****ATV "Output"****1241.25 MHz am****Intercom:****146.415 PL 79.7 nbfm****Affiliated:****\*224.38- & \*224.94 KK6KD (HARS)****\*447.05- & \*145.26 KK6KD (HARS)****\*146.175+ N6FQ(Fallbrook ARC)****Linked to****\*445.600 MHz (-)****\*224.90- WD6HFR (Corvair/220 ARC)****446.14- WB6FMT (123.0) Vista****\* = 107.2 Hz PL Tone****Committee Chairpersons**

ARESinfo	Dennis S	<b>K7DCG@amsat.org</b>
Attendance	Al	<b>W6GNI@amsat.org</b>
ATV	Art	<b>KC6UQH@amsat.org</b>
Auction		<b>AD6VI</b>
Badges new	Al	<b>W6GNI@amsat.org</b>
Batteries	David	<b>KD6EBYDAT@Gerry.Palomar.caltech.edu</b>
BBS Monitor	Bill B	<b>N6FMK@amsat.org</b>
Billing:Ads/etc	Lyell K	<b>K6GVM@arrl.net</b>
Contest Info	Dennis V	<b>N6KI@amsat.org</b>
Control Ops	-filled	<b>N6NWX @amsat.org</b>
Del Mar Fair		
Emergency QTH's (Emergency Com Centers)		
Harry H	W6YOO	<b>W6YOO@amsat.org</b>
Dennis V	N6KI	<b>N6KI@amsat.org</b>
Field Day	Charlie R	<b>NN3V@amsat.org</b>
Field Day Tech	John K	<b>WB6IQS @amsat.org</b>
Inventory	Dennis B	<b>KD6TUJ @amsat.org</b>
New Members	John E	<b>KG6EQU@amsat.org</b>
Nets		
Newsletter	Michelle P	<b>W6MYP@amsat.org</b>
PALBBS Pkt	Bruno H	<b>KF6QDP@amsat.org</b>
Patch Info	Stan R	<b>W9FQN@amsat.org</b>
PatchETronics	Jerry H	<b>WB6FMT@amsat</b>
Picnic		
Power AC/DC	Mike P	<b>KD6VHI@amsat.org</b>
Programs	Dennis B	<b>KD6TUJ @amsat.org</b>
Publicity		
QSL Cards	Merle R	<b>KR6BT@juno.com</b>
RACES Info	Jo A	<b>KB6NMK @amsat.org</b>
RED Flag		
Repeater Site	Michelle T	<b>W5NYV@amsat.org</b>
Repeater Skeds		
SANDARC		
Seller Table	John K	<b>WB6IQS @juno.com</b>
Assistant SW Div Dir		
Tech Site	Mike D	<b>AB6QT@amsat.org</b>
Testing VE	Rusty M	<b>DuneDancer@cox.net</b>
Training		<b>W6NWX @amsat.org</b>
Trustee W6NWX	Mike D	<b>AB6QT@amsat.org</b>

**Net Managers**

ARES Sun		
ARES Staff Net	David D	<b>KC6YSO@amsat.org</b>
ARES 6m	David D	<b>KC6YSO@amsat.org</b>
Ham Help Net	David D	<b>KC6YSO@amsat.org</b>
Hiking	Ed	<b>KF6DXX@juno.com</b>
	Glenn P	<b>KE6ZLY@juno.com</b>
MARA	Cathy	<b>KE6IQU W6NWX@amsat.org</b>
Microwave	Kerry B	
Off Road	Jerry A	<b>jwak6fpf@cts.com</b>
	Dick W	<b>KA7AYTrwillimek@home.com</b>
Sailors	Paul	<b>NN6X@amsat.org</b>
	Rod	<b>AC6V@amsat.org</b>
Traffic SDCTN	Charles	<b>N6TEP cmiele@juno.com</b>

**Questions**

Questions about club policy or for more information can be addresses to:

Email: **W6NWX@amsat.org**

Snail Mail: P.O. Box 73  
Vista, CA 92085-0073

# Minutes

## Palomar Amateur Radio Club Board of Directors

### September 08, 2004

The meeting was called to order at 6:59 PM by NN3V at the home of NN3V.

**Present were:**

President, Charles Ristorcelli, NN3V  
 Vice President, Dennis Baca KD6TUJ  
 Secretary, Dick Kalkofen, K6KAL  
 Treasurer, Jo Ashley, KB6NMK  
 Director Steve Early, AD6VI  
 Director Merle Risdon, KR6BT

Membership Chairman, Al Donlevy, W6GNI  
 New Member Ex-Officio, John Earnest, KC6EQU  
 Repeater Tech Chair, Mike Doyle, AB6QT  
 Retiring Repeater Site Chair, Mike Pennington, KD6VHI  
 Michelle Thompson, W5NYV, 'Repeater Site Chair volunteer'  
 Michelle Poirier, W6MYP 'Scope Editor volunteer'

**Treasurer's Report of 08/31/2004**

Jo, KB6NMK has submitted the Treasurer's Report for reviewed by the board. On Saturday Sept 4<sup>th</sup>, Jo tried to change the maturity of a 6 Month CD to 12 Month to improve the rate of return. BOA would not allow a CD transaction on Saturday, and it rolled over for another 6 months. Mike, AB6QT moved that the report as submitted be approved, and was seconded by Merle KR6BT. The motion carried.

**Secretaries Report**

The minutes were distributed to the board and scope editor, but not in time to be published in the scope. Dennis, KD6TUJ moved that the minutes as distributed be approved, and was seconded by Al, W6GNI. The motion was carried.

**Discussion Items**

The board reviewed the offer by Michelle Poirier, W6MYP to serve as Scope Editor. She is familiar with Adobe software that was used by Ron, NA6RS. After a brief discussion outlining the duties of the editor, the board unanimously approved her appointment as the new scope editor.

Mike recommended that Michelle Thompson, W5NYV be appointed as the new Repeater Site Chair person. After a review of the duties, and an offer by Mike AB6QT to continue in a mentoring capacity, Dick K6KAL moved the appointment be accepted by the board, and was seconded by Al, W6GNI.

The motion carried.

There was another discussion about adding 'EchoLink' to one of the PARC repeaters. Mike AB6QT recommended that the 147.075 machine be used. Steve, AD6VI will review this with MARA, as the 147.075 machine is their repeater donated for the clubs use. Mike will contact John, W9EN of the EARS club to see what was involved in setting up their EchoLink.

Mike, AB6QT submitted a request for a small container for the repeater site to serve as a work

space for repairs and some storage. Michelle, W5NYV will check

*(Continued on page 11)*

<div style="text-align: center;"> <h1 style="font-size: 2em; margin: 0;">HAM</h1> <h1 style="font-size: 2em; margin: 0;">RADIO</h1> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin: 5px;">H R O</div> <h1 style="font-size: 2em; margin: 0;">OUTLET</h1> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px; text-align: center;">                 Tom KM6K                  Ron N6OMW                  Jose XE2SJB                  Bob KA6EKT             </div>	<p><b>KENWOOD</b>  <i>rf</i> <b>CONCEPTS</b>  <b>DIAMOND</b>  <b>US TOWERS</b>  <b>KANTRONICS</b>  <b>YAESU</b>  <b>MFJ, ICOM</b>  <b>BENCHER, Inc.</b>  <b>HUSTLER</b>  <b>COMET</b>  <b>AMERITRON</b></p>	<p><i>Astron,</i>  <b>AEA,</b>  <b>OUTBACKER</b>  <i>Larsen Antenas</i>  <b>TEN-TEC</b>  <i>hy-gain, Tri-EX,</i>  <i>cushcraft</i>  <i>and</i>  <i>others too</i>  <i>numerous to</i>  <i>mention!</i></p>	<p>Drop in to see our display of working equipment.                  Find out about Pkt location determining equipment (APRS).                  Check our complete line of magazines, ARRL books, license manuals, and Bulletin Board with all sorts of goodies listed.</p>
<p>Open: <b>10a.m. - 5:30p.m.</b> <i>Ask about our great prices</i>  <b>Monday thru Saturday</b>  <b>858 560-4900</b> or toll free <b>1-800-854-6046</b></p> <p style="text-align: right; font-size: 0.8em;">Dec98</p>	<p><b>Directions:</b> On 163, take <b>Clairemont Mesa Blvd.</b> off ramp to East. Stay in right-hand lane. Turn right at stop light. As you are turning right you can see our beams in the shopping center. Travel 100 yds. on Kearny Villa Rd. and U-turn back to shopping area and <b>HRO</b> sign. Be sure to see our equipment in action on <b>real</b> antennas.</p>		

# October 2004

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6 <i>Auction</i>	7	8	9
10	11	12	13 <i>Board Meeting</i>	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31 <i>Halloween</i>						

If you would like to include information for the calendar, please send an email to:  
**SCOPE@palomararc.org**

## Schedule of Events

- **October 6** PARC Auction
- **October 13** Board Meeting

### PARC NETS

- Sunday** 0830 146.730 ARES
- Sunday** 1000 146.730 Sailors Net
- Sunday** 2045 146.075 MARA Emergency Services
- Monday** 1915 146.730 RACES Sub-Net
- Monday** 2100 146.730 Microwave Net
- Tuesday** 2100 146.730 Off-Road Net
- 2nd Wednesday** 2100 146.730 PARC Board Net
- Thursday** 1930 147.075 Young Hams Net
- Thursday** 2100 146.730 Ham Help Net
- Friday** 2100 146.730 Hiker's Net
- Saturday** 2000 52.680 6 Meter Ares Net
- Tue/Thu/Sat** 2000 146.730 NTS Traffic Net (SDCTN)

## Last Month

### Goodie Table



W6MYP	Michelle
W6JFD	John
AE6IC	Fred

### Club Membership

**New Members Joining PARC:**  
KG6QHP, KF6NBF KG6VVK, W0KJV,  
and KG4TZZ.  
**Be sure to greet these new members  
when you see or hear them on the  
repeaters.**

In addition, 5 reinstated their membership.

Please be sure to check your SCOPE mailing label each month. Avoid the dreaded red "Last Issue" on your label. "Last Issue" means your membership expires within a few days..

We get a number of new members that download the application form from the club web site. This is great, and the web site is a good way to tell potential members about the club. Do you know our web address? **Palomararc.org** Think - Palomar amateur radio club dot Org.

Al  
W6GNI

### Fold & Staple Crew



KR6BT Merle		KG6AEW Bill
KB6NMK Jo	&	Toby
KB6YHZ Art		K6ML Jim
W6GNI Al	&	Kathy
W6YOO Harry		KE6DUG Rich
N6UZH Terri		

# For Sale

(9.10) Hustler Mobile Antenna Mast with resonators for 11, 20, 40, & 80 Meters. \$30. Tokyo Hi Power Manual Antenna Tuner, HC-150 \$75. Wanzer Co "Z" Match Tuner, 300W \$75. Atlas DL-300 52 Ohm Dummy Load (like small Cantenna)

w/cooling oil \$15.00. Low Pass Filter (great for 6 Mtr Ops), Yaesu FL-2100B Linear Amplifier, \$300.00. All From Estate of KF6QQ. Call Harry, W6YOO at 760-743-4212

(9.10) For Sale: 2 each, Kenwood 144 MHz FM Transceivers, Model TM-241A \$100.00 each (they include mobile mounting brackets). 2 each Astron Power Supplies, Model RS-20A, \$70.00 each. 1 Kenwood external speaker for mobile radio, \$25.00 Call Harry, W6YOO, 760-743-4212

(9.2) Kenwood CW filter, YK-88C-1 (500 HZ). In like new condition for TS-450, TS-570, TS-690, TS-850, TS-830, TS-950. Easily plugs in and is held down with 2 screws. \$70 Contact Bernie N6FN at N6FN@niftyaccessories.com or 760-746-7411.

(9.3) WWII Military surplus HF receiver, transmitter and power supply (three separate units) to go to a good home or to be salvaged for parts. The transmitter puts out about 30 Watts, and all gear work last time it was fired up. Runs off 115 VAC. Frank Burns W6KGG 723-1792.

(9.4) Wilson Hand Held Mark IV Transceiver. Good radio to monitor channels on. Asking \$25. 4 Element 10 Meter YAGI beam. All stainless hardware with W2 DU beam balun. Like new works great \$75. Please contact Bayard K6GAO 858-755-5507

**Personal equipment ads** are free to members and could be "bumped" after 3 mo. Make up your ad like the ones below and send to the email address below before the 15th of each month.

**Commercial Ads** in big boxes: \$2/col. inch/mo. We will "squash" your copy to the number of inches bought.

**SCOPE@palomararc.org**

(9.5) Drake C Line T4CX with DX Eng RF Speech Proc, R4C with all filters and NB, MS4/AC4 Speaker/Power Supply, L4-B 2 KW Amp. Contact Dennis N6KI. N6KI@earthlink.net for details and price 858-271-6079

(9.6) Wilson TT-45 45' Tower, free standing galvanized, raising and tiltover fixture, rotor bracket, \$250. Qubex 4 el. Quad, 10,15,&20m,

The  
**NiCad Lady Co.**  
**O.E.M. Assembly**  
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www.nicdlady.com email: nicdlady@nicdlady.com

\$150. HY-GAIN Rotor, w/control and manual, \$100. Remote switch, 6 pos, \$100. SwanLinear 1500Z, 1500w, \$400. Heath Tuner SA-2040w pep, w/manual, \$150, Kenwood 2M TR-7330, w/ARX2 ant. \$200, Astro PS7A ps, \$30. Palomar SWR/PWR meter \$50, 1KW Dummy Load \$10, Swan SWR meter, \$20, PACE coax 3 pos sw \$5, DAIWA 2 pos sw \$5, Low Pass filter \$5, CUBIC ASTRO 103 Xcvr.w/ps \$300, CUBIC ASTRO 150A, 100w 10-160m ext ps \$300, Kris W6KTE 760-941-3555.

(8.1) !COM-756 PRO II HF/6m all mode, Like New in original box. Manual and accessories included. A real Bargain at \$1,750, Allan AE6AN (w) 858-566-9829 (h) 858-481-1880

(8.2) Cushcraft MA5B 5 band mini HF beam. Never installed, partially assembled/painted, \$250. Force 12 Sigma 5 portable multi-band vertical, used very little, \$125. Spider HF multiband portable/mobile, with attachment claw, \$50. Hustler mobile with 17, 20, 40M resonators, \$40, 2M mag. mount, \$5. W3LFR, 858-774-0733 days, 858-780-9593 eves.

(8.3) Hallicrafters HA6 (6 Meters Transverter) \$30.00, CushCraft AR-2 2 Meter Ringo Antenna \$15.00, Knight Kit R55a Receiver \$45.00, Knight Kit Span Master Receiver \$35.00. Jerry Kopack, KF6MYE 760-436-6238 or JKopack@DIRECPC.COM

(8.5) FREE - QST 1994 to present. Ivan, W6TET (858) 273-0219

(7.1) Yaesu VX-5 for sale. Like new. I have programmed in all of the S. D. repeaters I know. For scanning I also programmed the aircraft freq's and the Boating channels. Still have the box etc. \$200.00 firm. K6ROQ - - Paul

(7.4) Astron AS-7 Power Supply \$20.00, Celestron C8 Catadioptric Telescope with Heavy Duty Tripod, Planetary motor drive, X2 Barlow Lens - Spotting Scope w/manuals & misc oculars \$800.00, 2 B&W security monitors (New) \$10.00 each, Galaxy Electronics Phone Patch PR550 w/manual \$25.00, Cushcraft R-7000 Vertical \$140.00,

(Continued on page 7)

(Continued from page 6)

Panasonic Stereo Earphones Model RP-HT12 (New) \$3.00 each, Panasonic Super Compact Blank Video Tape ST-C30 (New) \$3.50 each, Tape Head cleaners, Camera power supply's ETC., other items too numerous to list. Micronta Large display clock w/battery backup \$15.00, Miniature TV Camera \$30.00, Treadmill ¼ HP \$60.00, Avenger 4000 Commercial alarm system, 6 PIR's Digital Pad, Ultrasonic, 2 Sirens, \$200.00. Realistic DX-400 General Coverage Receiver – digital Tuning \$100.00, Rotating Amber 12 volt Emergency Vehicle Light, \$20.00, Contact K7DCG @ 858-748-9046 or K7DCG@ARRL.COM.

(4.25) ICOM 703 HF/50 All Mode, \$450 (New), Alpha Delta Kent Morse key twin Iambic Paddle TP1, \$75, MFJ 1644 Portable Screwdriver Ant., 80-6m, manual, \$50, Carl, N6HLY, 858-484-3590

(9.13) SG-2020 ADSP2 Transceiver, in super shape (10+) - looks new, very low hours. Not a scratch or mark on this rig. This is the latest SG-2020 model which came with the ADSP2 factory installed. In original box, with microphone, power cord and user manual. Price \$430. Contact Bernie N6FN at n6fn@niftyaccessories.com or 760-746-7411

(9.13) IC-703P QRP Transceiver, in super shape (10+) - looks new, very low hours. Has only been used desktop, never mobile. This is the Plus model with 6 and 60 meter capability. In original box, with microphone, user manual and the bag of misc. adapters unopened. Price \$500. Contact Bernie N6FN at n6fn@niftyaccessories.com or 760-746-7411

## PALOMAR ENGINEERS

Box 462222, Escondido, CA 92046

### TOROID CORES

Palomar stocks a wide variety of cores and beads. Our RFI Tip Sheet is free on request. Our RFI kit keeps RF out of your telephones, TVs, stereo, etc. **Model RFI-4 \$25 + tax + \$6 to ship.**

### BALUN KITS

Ferrites slip over coax. Shrink tubing holds them in place. Works from 3.5-60 MHz (Use two kits for 160 m).

**Model BA-58** (for RG58, RG8X & similar cables up to 1/4" dia. \$7.50 + tax + \$6 S&H/order

**Model BA-8** (for RG-8, RG-213, 9913 and similar cables up to 1/2" diameter. \$15.00 + tax + \$6 S&H/order

### TUNER-TUNER

Tune your tuner without transmitting. Save that rig! Just listen to the Tuner-Tuner's noise with your receiver. Adjust your tuner for a null and presto! You have a 1:1 SWR.

**Model PT-340 \$99.95 + tax + \$6 S&H**

See catalog at [www.Palomar-Engineers.com](http://www.Palomar-Engineers.com)  
Please check our complete ads in **QST**, **73**, **CQ**, and **World Radio** magazines.

### Web Pages

**PARC's Home Page** -

<http://www.palomararc.org>

**Rod's - AC6V**

<http://www.ac6v.com>

**ARES Alert Publication**

<http://sanarrl.org/alert.htm>

**Tom's Hiker's - KF6PAZ**

<http://www.fanciful.org/san-diego-hiker>

**Echolink**

<http://www.echolonk.org>

**IRLP**

<http://www.irlp.net>

**Treasurer \$\$,\$\$\$**

**Jo Ashley** **KB6NMK@amsat.org**  
Balance Sheet as of August 31, 2004

Assets	
B of A Checking	\$3,033.47
CD	\$2,705.32
CD	\$3,419.87
CD	\$2,854.30
CD	\$2,854.30
Post Office	\$97.93
Total	\$14,965.19
Liabilities	
Pre-Paid Dues	\$7,716.00
Property Insurance	\$1,800.00
Total	\$9,516.00
Equity	\$5,449.19
Total Liabilities & Equity	\$14,965.19

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# VoIP and Amateur Radio

Reprinted with permission of the author Steve WB8IMY and the ARRL.

An increasing number of amateurs are putting the Internet to work as a bridge for long-distance voice communication. Discover what the Voice Over Internet Protocol buzz is all about!

From February 2003 QST © ARRL

Voice Over Internet Protocol, better known as VoIP, is not new. People have been enjoying voice communication over the Internet for years. What is new are the latest Amateur Radio applications of VoIP. Rather than relying on ionospheric propagation for long-distance communication, a growing number of hams are using the Internet in combination with VHF or UHF FM transceivers to span hundreds or thousands of miles.

There are several flavors of amateur VoIP in use today. Depending on how they are configured, these systems may involve *repeater linking* where two distant repeater systems share signals with one another (Figure 1). Another application is so-called *simplex linking* where one or more users with handheld or mobile transceivers communicate directly with a "base" station (or *node*) that is linked to the Internet (Figure 2). The one element that all amateur VoIP systems have in common is that the Internet acts as the relay between stations.

The appeal of amateur VoIP is easy to understand. Technician licensees without access to HF can use these VoIP systems to enjoy a kind of "Internet-aided" DXing, having conversations with other hams far beyond the range of their FM transceivers. General and Amateur Extra hams without HF stations at home can also benefit from VoIP in the same manner.

Let's take a brief look at a few of the current incarnations of Amateur Radio VoIP.

## EchoLink

EchoLink was developed by Jonathan Taylor, K1RFD, in early 2002. In an astonishingly short period of time, EchoLink has become one of the dominant Amateur Radio VoIP systems with more than 30,000 users worldwide. The free EchoLink software for *Windows* can be downloaded at [www.echolink.org](http://www.echolink.org)

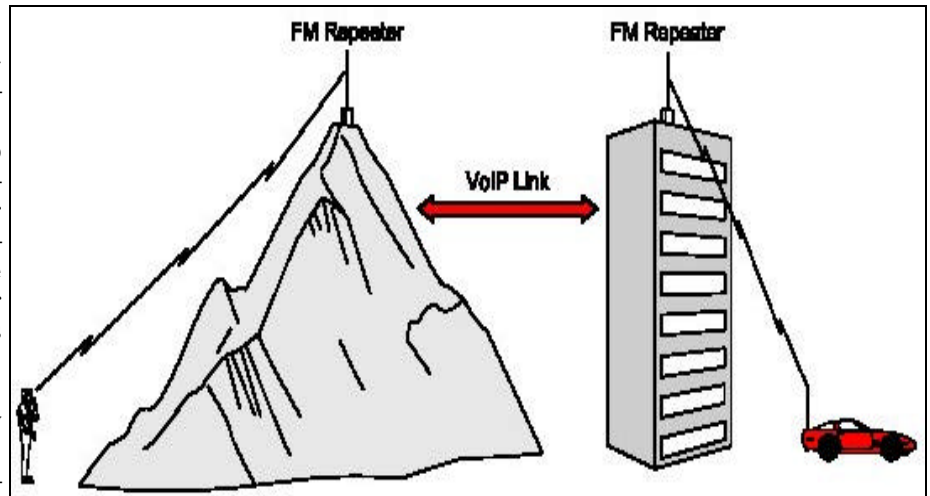


Figure 1—Two FM Repeaters Linked VoIP

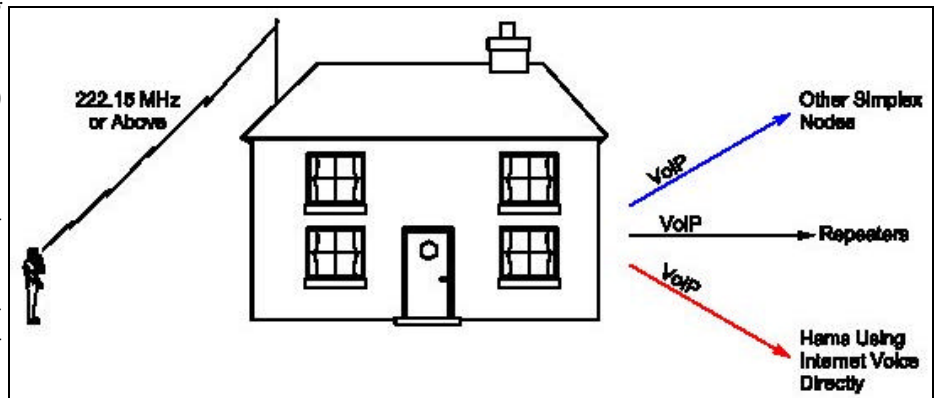


Figure 2—A diagram of a VoIP simplex node. If a control operator is not physically present at the station location and the node is functioning with wireless remote control, the control link must operate above 222.15 MHz. See the sidebar, "Is It Legal?" in next month's SCOPE.

When you start the EchoLink software, your computer taps the Internet to connect to an EchoLink server. Before you can make your first connection to the network, your call sign must be verified with the information in the FCC database. This can take minutes or hours, depending on the state of the system, but it helps reduce the chances of nonhams entering the EchoLink network.

Once you're validated (you only do this once), the rest is

(Continued on page 9)



(Continued from page 8)

easy. The EchoLink server acts like a telephone switchboard in cyberspace. It maintains a directory of everyone who is connected at any moment. After browsing the directory, you can request a connection between your computer and that of another amateur.

Here's where it becomes interesting. The ham on the EchoLink receiving end may be sitting in front of his computer with a headset and microphone. Or he may have his computer connected to a base radio at his station that is acting as an RF relay to a handheld transceiver or mobile rig. Or the destination station may be part of a repeater system. In any case, once the connection is established, anything you say will wind up being heard in the other amateur's headset, or transmitted over the air.

At your end of the EchoLink connection, you may be the one wearing the headset, or using a simplex connection to your base radio, or using a repeater. When you connect to an individual station, the custom is to call in the same fashion as you would during a traditional on-air conversation: "W1ABC from WB8IMY." Or if you are connecting to a distant repeater system: "WB8IMY, Wallingford, Con-Connecticut." (You need to hesitate about 2 seconds before speaking to compensate for the delay.)

The EchoLink servers also support *conferencing* where several amateurs can converse in roundtable fashion. There are even EchoLink nets that meet within these conference areas on a scheduled basis.

### EchoLink Setup

To run EchoLink you'll need a PC with *Windows 98/2000/XP* and a sound card. The software is easy to set up. A "wizard" function guides you through each step.

If you want to enjoy EchoLink conversations while sitting at your computer, you will need a microphone headset. These are commonly available from several *QST* advertisers as well as RadioShack. The microphone plug attaches to the microphone input jack of your sound card and the headphone plug typically attaches to the SPEAKER OUT jack. In addition to setting up the EchoLink software, you may also need to adjust your sound card VOLUME and RECORDING control settings in *Windows*.

If you plan to connect a radio to your computer so that you can use EchoLink over an RF link, you'll need an interface. The strong enthusiasm for EchoLink is driven by the fact that it does *not* require a specialized hardware interface for connections to transceivers. All timing functions and DTMF decoding take place within the EchoLink software. This means that you can enjoy EchoLink with the radio of your choice by using common sound card interfaces such as those sold by West Mountain Radio (the RIGblaster folks), MFJ, TigerTronics and others. If you are already operating PSK31, RTTY, SSTV or similar modes with a sound card interface, you can become an EchoLink operator by simply downloading and installing the software—no additional hardware or cable connections required.

There are also hardware interfaces specifically designed with VoIP in mind. Check out the ULI (Ultimate Linking Interface) from James Milner, WB2REM, at [www.ilinkboards.com](http://www.ilinkboards.com). The ULI works with VoIP as well as the various Amateur Radio digital modes. It also offers built-in computer control of your radio. You can change frequencies, for example, by issuing commands on a remote UHF link, or via the Internet. It even allows remote rebooting of the station PC.

Also take a look at the multimode interface board designed by VA3TO. You'll find it on the Web at [www.ilinkca.com](http://www.ilinkca.com).

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**Article to be continued in future Editions of Scope. Covering ....Is it Legal? eQSO, IRLP, Ilink, and WIRES**

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### CQ CQ CQ Jamboree de ...

From 00:01 local time Saturday through 23:59 Sunday, October 16<sup>th</sup> and 17<sup>th</sup>, Scouts, guided by Hams will be talking to other scouts worldwide. It's called Jamboree-on-the-air (JOTA.) The name is from the epic scout campout called Jamboree where thousands of scouts gather in one place. In the U.S. this happens once every four years at Fort A. P. Hill, Bowling Green, Virginia. Other countries hold their own Jamborees in different years. JOTA, on the other hand, takes place every year. That place is the entire Ham operating spectrum. Try frequencies around: 3.74/3.94, 7.27, 14.29, 18.14, 21.36, 24.96, and 28.39 (MHz). There you will hear Scouts having their first QSOs. Hopefully, with your help, these QSOs will be the first of many.

JOTA is an opportunity to promote your hobby by relating it to Scouting. You might wonder "What does Ham radio have in common with Scouting?" The answer, goals. Merit badges motivate kids to expand their interests and set goals. If you would like to know what merit badges are all about, check out [www.meritbadge.com](http://www.meritbadge.com). In addition to RADIO, you will find the MB requirements for electronics, emergency preparedness, public speaking, and safety, to name a few. So you have a lot to offer. The question is how do you make it happen?

Here are a few suggestions. First, reach out to Scouting sponsors, I.E. religious or civic organizations. If you or a family member belongs to a Scout unit or its sponsoring institution you have a foot in the door. Second, have a plan i.e. when, where, who. Keep it simple and keep it short. Look on the ARRL website under "JOTA" for helpful information. Third, be aware of the BSA rule that at least two adults be present. Forth, remember, kids are kids...don't expect too much. Scouts will test you. Some kids are more active while others have difficulty speaking and most experience "mike fright". Just remember when you were

*(Continued from page 9)*

young and have fun.

Hopefully, I'll be camping with Oceanside Boy Scout Troop 787 and looking forward to hearing all of you respond to "CQ Jamboree".

73, Fred, AE6IC

## PARC Hiker's Net News

By Bernie – N6FN

### Backpacking

In mid August, John-KT6E, Jeff-KG6AXR and myself took an extremely scenic and interesting backpack trip in the High Sierras.

Because of a shortage of wilderness permits for the area we wanted to visit, we enlisted the help of Ken Babione-KF6RAD, a friend of Ed's-W6ABE who now lives in Bishop, to help us get the required permit. After driving North on 395, our first stop was to the Bishop Airport to retrieve the permit from Ken. We had a nice breakfast while visiting with Ken at the airport's restaurant. Ken says its one of the best places in town to eat.

In spite of frequent rainstorms, hail and lightning we had a truly great trip -- rugged but great! Our entire trip was above 10,000 feet; the high alpine scenery was unbelievable. We climbed two mountains and visited over a dozen glacially carved lakes.

One night it hailed enough to cover the mountain peaks above us, it looked as if it had snowed. While attempting to use my VX-5R on top of one of the mountains, high voltage corona crackled off the antenna, indicating the very real possibility of a lightning strike. Then...

For the full story and photos visit <http://members.cox.net/bernie-n6fn/>

### Hiking

On Saturday, September 11, Al-W6GNI, his daughter Julie, Stan-W9FQN and I made a short day hike to the top of Bernardo Mountain, which is near Lake Hodges. There are great views from the summit and while on top we used our HT's to make contacts with several local hams, one of course was the ever-present AC6V.

## Kayaking

For the last several months, a number of local hams and friends have been showing up just about every Thursday evening for the Mission Bay social paddle hosted by Aqua Adventures, located at Quivira Basin. These are very pleasant outings. Either bring your own boat and go for free, or rent one of their kayaks for the evening for \$15.

A few weeks ago we had 10 paddlers from the hiker net group: John-KT6E, Jeff-KG6AXR, Julie-KG6BPP, Mike-W6MBM, Stan-W9FQN, Bernie-N6FN and four others who are non-hams. With the additional 25 or so who also showed up, we ended up with 35 or more people kayaking together that evening.

With shorter days, it now gets dark about half way through the paddle. Kayaking after dark is a unique experience. It's quite beautiful to see the clouds lit up at sunset and all the lights reflecting off the water.

Come out and join us. You don't need prior paddling experience. Email me for more info at [n6fn@niftyaccessories.com](mailto:n6fn@niftyaccessories.com) or visit the Aqua Adventures web page <http://www.aqua-adventures.com/store/>

At the end of July, Stan-W9FQN volunteered to accompany one of the swimmers for the 5-mile rough water swim off of La Jolla Shores. For safety reasons each swimmer needed to be accompanied by a kayaker. Stan managed to get through the surf without capsizing, even though several others did not. With all the swimmers

*(Continued on page 11)*

### Radio Setup Helpers



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*(Hiker's Net News Continued from page 10)*

churning through the water, the start of the race was chaotic. Locating his swimmer in the thrashing "herd" was a bit difficult. But Stan found his man, staying with him the whole race. While on the water, Stan was able to use his HT, contacting his wife-KA6FPS while she was mobile on I-8.

Why not join us for the Friday 9 pm Hiker Net on our 146.730 machine? We generally discuss trip ideas, reports of recent trips and any other outdoor topics that might come up. The net is open to all and new participants are always welcome.

*(Minutes Continued from page 4)*

with Palomar Mountain authorities to see what if any rules, regulations and or permits relating to containers may be required.

Steve, AD6VI brought up the topic of a formal, written policy on repeater usage during an emergency for PARC. There was a brief discussion, and the general agreement that a written policy may be required. Dick, K6KAL reported that the ARRL Club was contacted to see if an outline of such agreements are available and has not received a response.

Merle, KR6BT reported that the Picnic is confirmed for Sept 25<sup>th</sup> at Lake Dixon. Cooks have been lined up, and there will be a Chill Cook off. Merle, KR6BT polled the board for the place where the Gift Certificates are to be purchased from and questioned the denominations. Dennis, KD6TUJ moved that Fry's be the store, and was seconded by Steve, AD6VI. The motion carried.

The election for the board members for next year is near, and several of the current board members will be approaching the membership to get volunteers to serve on the nominating committee.

#### **Old Business**

Steve, AD6VI will arrange to post auction notices at HRO.

Jo, KB6NMK indicated that the clubs liability insurance premium is due, and will arrange payment.

#### **New Business**

With the recent interference by K0JPK repeater with ours on the same frequency, Charlie, NN3V has written TASMA requesting all available information as to the frequency coordination of the 146.730 machine. Dick K6KAL will review the club records for documentation relating to the coordination. The collecting of all available documentation is the first step in resolving this interference problem.

#### **Membership report**

Al, W6GNI notes that the club now has 429 members.

#### **Repeater Technical**

Mike, KD6VHI reported that the batteries have been configured in a 48 volt string, and are working well. All repeaters are functioning within nominal parameters.

#### **Repeater Site**

The site report and status was discussed along with the duties of the site Chair.

#### **Next Board Meeting**

The October board meeting will be held at the home of Charlie, NN3V at 7:00 PM on October 13th.

Steve ,AD6VI made the motion to adjourn the meeting, and was seconded by Dick, K6KAL. The meeting was adjourned at 8:40 PM.

Respectfully submitted,  
Dick Kalkofen, K6KAL, Secretary

**October meeting will be:**  
"Annual Auction"

### **PARC Testing**

Carlsbad - 2nd. Saturday at  
9:30 am in the Carlsbad  
Safety center.

Contact Rusty **AA6OM**  
**760-747-5872** or  
**dunedancer@cox.net**

### **EARS Testing**

Escondido - LAST Saturday  
at 9:00 am Fire Station #1  
Escondido Fire Department  
310 North Quince Street  
Escondido, CA 92025

Contact Harry **W6YOO**

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