



Palomar Amateur Radio Club

February 2003

February Meeting

Wednesday Feb 5, 2003
Carlsbad Safety Center
1930 Local

Fred Hein of ARRL will be speaking on current events including a new ham video by Walter Chroncite.

PARC Repeaters

Palomar Mt. Repeaters (W6NWG)

PARC Trustee: **AB6QT**

***52.680-** W6NWG, -0.5 MHz.

Autopatches:

146.730-, ***147.075+**

* **147.130+**, ***447.000-**

PKT:

145.050s (PALMAR/W6NWG-1)

146.700- (Duplex Pkt) PALBBS/
EMG use

145.070/146.7 - (W6NWG-3/PALBBS)

ATV "OUTPUT":

1241.25 MHz. am

ATV "IN":

915 wbfm, **919** am, **2441.25** wbfm

Intercom:

146.415 PL 79.7 nbfm

Affiliated:

***224.38-** & ***224.94** KK6KD (HARS)

***447.05-** & ***145.26** KK6KD (HARS)

***146.175+** N6FQ(FalbrkARC) linked to

***445.600** MHz (-)

***224.90-** WD6HFR (Convair/220 ARC);

446.14- WB6FMT(123.0)Vista;

* = **107.2 Hz. PL Tone**

President's Message

It is Valentine's month again, folks. So don't forget that special person to whom you must give a fine ham radio present!

As you know, the year is moving ahead!. The PARC Board met last month to plan ahead on objectives and events we believe to be of importance to the Club, and I am pleased to tell you that we are committed to three broad endeavors this calendar year.

First, as the PARC container has now moved to a central location in Oceanside, we look to organizing the container's contents in a more detailed fashion. As much of the material in the container now is in good shape, KD6TUJ (Dennis) is beginning the arduous task of taking a complete inventory, and in the process identifying material we believe may be worth making available to Club members should they desire to purchase the items (at bargain base prices) and make use of same.

Second, we are going to re-invigorate the repeater site work parties. AB6QT and the technical committee have much work ahead, completing tasks that were left "ready to go" over the past year. We have much work to do on our tower, as well as work to finish the installation and reorganization of the interior of our buildings. This is a *great opportunity for those who want to "get their hands dirty"*, to learn about radio systems, see the very large amount of radio equip-

ment you are fortunate to have under your control as members of PARC, and also visit a location that just be being there makes for fantastic day in the mountains with some breathtaking views. Stay tuned to the repeaters, and check here in Scope for the next work party!

Third, we are interested in creating opportunities for increased "actual" radio experimentation and fun, opening up opportunities for hams to increase their enjoyment of the hobby. You frequently have heard me talk about volunteering, and about giving us ideas for things to make your Club more relevant to the community of radio amateurs in our area.

I challenge you to get involved with us. Give us ideas for programs and presentations you would like to see offered at our meetings, and help us (as a volunteer) in finding such programs. I challenge each of you who read these lines to find one topic you think of interest to old and newcomers alike, and arrange for the topic to be offered as a program. KF6WTN (Mark), our program coordinator, will be delighted to have your help, and we will all make every effort to comply with your requests.

Once again, I encourage each of you to consider making your experience available for increasing the relevance of our hobby to the newcomers.

(Continued Page 5)

Minutes

Palomar Amateur Radio Club, Inc. Board of Directors

January 15, 2003

The regular monthly meeting of the Board of Directors was called to order by NN3V at 7:00 PM on January 15, 2003, at the home of KF6WTN.

President	Charlie Ristorcelli, NN3V	Treasurer	Jo Ashley, KB6NMK
Vice President	Mark Raptis, KF6WTN	Secretary	Paul Williamson, KB5MU
Director #2	Jim Cooper, NE6O	Director	Merle Risdon, KR6BT
Repeater Technical	Mike Doyle, AB6QT		
Club Assets Chairman	Dennis Baca, KD6TUJ		

Treasurer's Report

The Treasurer's Report was distributed by KB6NMK and approved unanimously.

Secretary's Report

Minutes of the December Board meeting had been published in the Scope, and were approved unanimously.

Interference on 147.13 MHz Repeater

AB6QT reported that interference problems on the 147.13 MHz repeater have abated since he had a talk with a local ham who had been using high power in order to access a repeater in L.A. on 147.12 MHz. The issue is closed unless interference re-surfaces.

ATV Repeater

AB6QT reported that he and KC6UQH visited the home of KD6VHI and performed tests to determine the suitability of the site for use in linking the club ATV repeater to the Amateur Television Network (ATN) site on Santiago Peak, replacing the link formerly sited at W9FQN. The site appears to be excellent for this purpose. AB6QT also reported that he and KC6UQH inspected the

club ATV repeater (on Palomar Mountain) and were able to restore it to basic operation in about an hour. KC6UQH is obtaining all the documentation on the club ATV repeater from WA6SVT, who received it from KB6MCU when he stepped down. **Motion** by KB6NMK that the Board formally invite KC6UQH to serve as the club's ATV guru, and approve the installation of the ATN link equipment at KD6VHI as already approved by KC6UQH. **Seconded** by KR6BT. **Motion passed** unanimously. NN3V agreed to write a letter to KC6UQH.

Club Flyer

KG6JMP had volunteered via email to complete the project of revising the club's membership flyer, and NE6O had volunteered to help. KF6WTN agreed to send his partial draft to them.

Goals for 2003

NN3V advanced the following list of things to concentrate on for the new year:

- Finalize any remaining issues with the new storage location
- Reinvigorate the program of regular work parties at the repeater site

- Continue with work to make ham radio fun for newcomers
- Build on the success of the GOTA station at Field Day
- Make club meetings more popular and better advertised
- Finalize control of all club documentation and records

Meeting Programs

KF6WTN reported that the February meeting program is still TBD. The March program meeting will be entitled "DX Contact At Any Cost", and will be presented by Bill Brooks, W6JAB.

Storage Facility

KD6TUJ reported on some additional equipment donations received. KD6TUJ reported that nothing was damaged during the move of the cargo container, and the equipment stored in the container is more presentable now. The search is on for donations of some heavy-duty shelving units for use within the cargo container. KD6TUJ noted that the club has an extra 8" triangular tower, a 40-foot two-section crank-up, that could be used by our storage location hosts, TOWizard, to support a security camera. **Motion** by AB6QT to donate the tower to TOWizard as a to-

Last Month's Fold & Staple Crew

KR6BT Merle K6ML Jim P
 KF6CBX Keith KB6NMK Jo
 KB6YHZ Art & KB6YHY Anita
 KG6AEW Bill
 W6GNI Al & Julie
 N6UZH Terri & Toby & Mathew

December Goodie's

December Goodie Givers

Dick	K6KAL
Mark	KF6WTN
Ed	KF6NXY
Jo	KB6NMK
John	KG6JZZ
Joe	W6OT
Chuck	N1MUH
Eleanore	N6QJE
Al	W6GNI
Blaine	N6BMR
Fred	K6ISS
Ted	KD6AKT
Ron	NA6RS
Conrad	KG6JEI

Others that didn't sign the form at the goodie Table.

ken of our appreciation for their hospitality. **Seconded** by KF6WTN. Motion **passed** unanimously.

Membership Report

W6GNI had reported via email that the club had 490 members.

License Upgrade Class

NE6O reported that the General class license upgrade course began on January 9, with 22 students. He has switched to using the ARRL Instructor's Guide syllabus rather than his own. Copies of the free

software Morse Academy were distributed. A dozen code practice oscillator kits are ready for distribution to the students.

Repeater Technical Report

AB6QT reported that the 147.13 MHz repeater was off the air after a recent storm. On inspection, the problem was found to be the usual loose contacts, cured by reseating boards. KF6WTN reported that the 146.73 MHz repeater was deaf briefly after the storm. AB6QT was unaware of any problem, and stated that the 146.73 MHz repeater had been trouble-free for years. AB6QT reported that he had obtained an EPROM copier and made backup copies of all club EPROM's.

Repeater Site Report

AB6QT reported that the next repeater site project is to get the new backup battery banks hooked up.

Proposed Dues Increase

KB5MU raised the issue, deferred from previous Board meetings, of an increase in club dues to cover increased operating costs and additional projects. **Motion** by KF6WTN that the dues be raised to \$18 per year for individual members and \$30 per year for family memberships, effective at the end of the next general membership meeting. **Seconded** by KB5MU. Motion **passed** unanimously. However, inspection of the Bylaws and Amendments to the Bylaws revealed that there are certain restrictions on when and how dues may be changed. The issue was **laid on the table** so that the Bylaws may be studied further.

Next Board Meeting

The January Board meeting will be held at the home of KF6WTN, on Wednesday February 12, 2003, at 7:00 PM.

Adjournment

The meeting was adjourned at 9:13 PM.

Respectfully Submitted,
 Paul Williamson, KB5MU
 Secretary

PARC Pre-Meeting Meeting

All PARC members, and any hams planning to attend the PARC meeting, are invited to congregate early in the Carlsbad area and enjoy dinner with the many meeting attendees who relax and enjoy socializing before the PARC meeting. Listen to the 146.730 MHz repeater starting around 5:00 PM, and you will hear members driving to various restaurants for dinner, and an "eye ball" with fellow hams. **A GREAT WAY TO ENJOY THE HOBBY!** See you there.

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

Jo Ashley KB6NMK@amsat.org

ASSETS 12/31/02

Cash and Bank Accounts	
CD	2,609.65
CD	2,770.00
CD	2,740.65
CD	3,334.46
Checking	2,595.44
Post Office	95.43

TOTAL ASSETS **\$14,145.63**

LIABILITIES	
Pre-paid dues	11,578.00
Prop. Insurance	1,200.00

TOTAL LIABILITES 12,778.00
 EQUITY 1,367.63

TOTAL LIABILITIES & EQUITY
\$14,145.63

Committee Chairmen

ARESinfo.	-Dennis S	K7DCG@amsat.org
Attendance	-Al	W6GNI@amsat.org
ATV	-Bill S	KB6MCU W6GIC@amsat.org
Auction	-Jim C.	NE6O@amsat.org
Badges new	-Al	W6GNI@amsat.org
Batteries	-David	KD6EBY DAT@Gerry.Palomar.caltech.edu
BBS Monitor	-Bill B	N6FMK@amsat.org
Billing:Ads/etc	-Lyell K	K6GVM@arrl.net
By-laws	-Paul	NN6X@amsat.org
&	-Ron	RWA9JCL r3mb@concentric.net
Contest Info	-Dennis V	N6KI@amsat.org
ControlOps.	-filled	W6NWG@amsat.org
D.Mar Fair-		
Emergency QTH's (Emergency Com. Centers)		
HarryH	-W6YOO	W6YOO@amsat.org
DennisV	-N6KI	N6KI@amsat.org
Field Day	-Charlie R	NN3V@ARRL.net
FDTech.	-John K	WB6IQS@Juno.com
Historian	-	
Interference	-Bill S	KB6MCU W6GIC@amsat.org
Inventory	-Dennis B	KD6TUJ@juno.com
MtgGoodies	-Jim E	W6SST@juno.com
Membership	-Al W6GNI	aldonlevy@juno.com
Nets	-	
Newsletter	-Ron S	NA6RS@amsat.org
PALBBSpkt	-Bruno H	KF6QDP@amsat.org
Patch Info	-Stan R	W9FQN@amsat.org
PatchETronics	-Jerry H	WB6FMT@amsat.org
Picnic	-Paul D	NN6X@amsat.org
PowerAC/DC	-Mike P	KD6VHI@amsat.org
Programs	-Charlie R	NN3V@ARRL.net
Publicity	-Fred S	K6ISS@amsat.org
QSL Cards	-Merle R	KR6BT@Juno.com
RACESinfo	-Jo A	KB6NMK@amsat.org
Red Flag	-	
Rptr Site	-Mike P	KD6VHI@amsat.org
Rptr Skeds	-	
SANDARC	-	
SellerTable	-John K	WB6IQS@Juno.com
AstSWDivDir	-	
TechSite	-Mike D	AB6QT@amsat.org
TestingVE	-Rusty M,	DuneDancer@cox.net
Training	-	W6NWG@amsat.org
TrusteeW6NWG-Mike D		AB6QT@amsat.org
Web Site	-	

(Net Managers) (see pg.12)

ARES Sun	-	
Staff Net	-David D	KC6YSO@amsat.org
ARES 6m	-David D	KC6YSO@amsat.org
Ham Help	-David D	KC6YSO@amsat.org
Hiking	-Ed	KF6DXX@Juno.com
	-Glenn P	KE6ZLY@Juno.com
MARA	-Cathy	KE6IQU W6NWG@amsat.org
Microwave	-Kerry B	
Off Road	-Jerry A	jwak6pfp@cts.com
	-Dick W	KA7AYT rwilimek@home.com
Sailors	-Paul/Rod	NN6X@amsat.org / AC6V@amsat.org
Traffic(SDCTN)-Charles		N6TEP cmiele@juno.com

Questions about club policy or for information can be addressed to **W6NWG@amsat.org** or P. O. Box 73, Vista, CA 92085-0073.

EMAIL address for Website is **webmaster@palomararc.org**

Other addresses of interest:

Scope@palomararc.org
Board@palomararc.org
Membership@palomararc.org

Club Membership

New Members Joining PARC:

KG6IZL, KD6IV, W6PEA, KG6DKV, AB0FT, KG6KTZ, KG6MDQ

In addition Gary English, and Mathew Johnson, and Terry Hunfield joined, pending receiving their amateur calls. We had 6 "old" members reinstate their membership after considerable delay. Welcome back. Also, **W6ASP** and **K6GVM** each renewed for 5 years. Thank you!

The participation points for the December meeting (party) have not been entered yet as it seems that more people brought delectable goodies than signed up at the goodie table. If you brought treats, and didn't manage to sign in for them, please let me know. It's not too late to get an extra point!

Al
W6GNI

Quick Reference Cards

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Bernie – N6FN berniel@amsat.org

Contest Corral

Contests for February and early March:

Feb 1 10-10 Int'l Winter Contest, SSB
 Feb 1 MN & DE QSO Parties
 Feb 1 N. American Sprint, Phone
 Feb 8 CQ/RJ WW RTTY Contest
 Feb 8 FISTS Winter Spring, CW (of course)
 Feb 8 N. American Sprint, CW
 Feb 10 ARRL School Club Roundup
 Feb 15 ARRL Int'l DX Contest, CW
 Feb 22 CQ WW 160 Mtr Contest
 Feb 22 N. American QSO Party, RTTY
 Feb 23 NC QSO Party
 Mar 1 ARRL Int'l DX Contest, SSB
 Mar 8 RSGB Commonwealth Contest, CW

Something this month for everyone, CW, SSB, RTTY, and Top Band. Also three state QSO parties thrown in for good measure. Rules of these and other contests are published in QST, CQ, NCJ, and Worldradio. CU in the contest. 73, Harry, W6YOO.

President's Message (cont.)

Please take note of the excellent work KG6JMP (Mike) is doing in welcoming new hams, and the outstanding effort NE6) (Jim) is now doing in the presentation of a new class for general upgrade. Jim is making the class fun, and also guiding the participants in building code practice oscillators and related minor construction so that there is a practical side to the learning experience.

Have you considered helping out?

73 d3 NN3V

P.A.R.C. Inc (2002 Board)

Pres: Charlie Ristorcelli NN3V
 858.676.3307 NN3V@amsat.org

VP: Mark Raptis KF6WTN
 760.749.4825 KF6WTN@amsat.org

Sec: Paul Williamson KB5MU
 858.571.8585 KB5MU@amsat.org
 760.742-9924 Palomar Mt.

Treas: Jo Ashley KB6NMK
 760.741.2560 KB6NMK@amsat.org

Dir#1: Paul DeCicco NN6X
 619-595.0500 NN6X@amsat.org

Dir#2: Jim Cooper NE6O
 760-727-8446 NE6O@amsat.org

Repeater Site:
 Mike Pennington KD6VHI
 760.749-8888 KD6VHI@amsat.org

Membership:
 Al Donlevy W6GNI
 760.630.3096 W6GNI@amsat.org

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

Membership Committee: KG6JMP
 Mike Mc Mahon KG6JMP@amsat.org
 (non-voting Member)

Jeff N6FRW

Grace N6WPA

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Web Pages

PARC's Home Page -
<http://www.palomararc.org>

Rod's - AC6V
<http://www.ac6v.com>

ARES Alert Publication
<http://www.qsl.net/sdgarrl/alert.htm>

Tom's Hiker's - KF6PAZ
<http://www.fanciful.org/san-diego-hiker>

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Free Tubes

PARC North County Tube Bank offers free tubes for club members. I will deliver tubes to meetings for personal repairs (not for commercial/resale). We have a good assortment of common types (1935-1970).

E-mail WB6IQS@juno.com or call evenings 760-727-3876.

Upgrade Class

The Technician to General Upgrade Class began January 9, 2003 and look like a big success.

There are 24 students in the class: KE6BUA, K6CAL, K6CAN, KD6CNH, KE6CWP, KF6GOF, KD6IFG, KG6IZL, KG6JMP, KG6MDE, KG6MDL, KG6NRR, W2PWS, KF6QBS, KF6QBU, KD6RFQ, KE6SDF, KF6SMB, KC5TJA, KD6TUJ, KF6WTO, KB6YNL, KC6YXY, Bryce Kozlowski, and Mike Kozlowski. And there are 5 "Elmers" to help teach and answer questions: KI6GD, KB5MU, NE6O, N6SD, KC6YSO.

The class text is the ARRL General Class License Manual available at HRO (Ham Radio Outlet) or on the web from the ARRL or Amazon.

The first hour of the class is a lecture on theory and regulations. The second hour is combination code practice and

question and answer session. There will be several "Elmers" available to answer individual questions. (There are NO dumb questions, only dumb people who DON'T ask questions hi hi.)

The class meets every Thursday from 7 pm to 9 pm at the Carlsbad Safety Center. If you are interested, but have missed a class or three, come by anyway. The purpose of the class is to get everyone upgraded, not just to follow a syllabus.

See you there!
73, Jim Cooper NE6O

Technician Class

Vista - 7:00 AM to 9:00 AM, Saturdays January 25th to March 22nd at the Church of Jesus Christ of Latter-day Saints, 451 W. Bobier Drive, Vista, CA 92083 (cross street is Melrose). Contact: Steve Early, (619) 461-2818 or earlysd@pacbell.net for information. Now You're Talking, 4th Ed, ARRL strongly recommended but not required.

Penasquitos - Beginning Saturday, January 4, 2003. From 7:00 a.m. to 8:30 a.m. For 8 Saturdays. \$3.00 materials fee. At the Church of Jesus Christ of Latter-day Saints. 12835 Black Mountain Road, San Diego (cross street is Highway 56) Call Richard Henry, (858) 780-0810, for information. Need to obtain: NYT Now You're Talking, 4th edition, ARRL about \$19.00 Ham Ra-

dio Outlet or Technician Study Guide Gordon West at Ham Radio Outlet.

Ramona - Free class sponsored by the Ramona Outback Amateur Radio Society. Tuesday, February 4th through March 25th 7p.m. to 9 p.m. at the Ramona Library Community Room. Class Size is limited to 15 students. Contact Randy Buxton at (760) 789-2364.

Amateur Radio Club of El Cajon Tuesday, Feb. 18th, 2003 Duration: 7 to 8 weeks Tuesday Evening @ 7:00 p.m. 160 E. Lexington Ave. @ Magnolia in El Cajon, CA, El Cajon Fire Station Classrooms Down stairs. Contact: Jeff Davis, KG6JRM, PH: 619 - 698 - 1144 E-Mail: kg6jrm@pacbell.net. Cost of \$17 Dollars (cost of one year club membership). If you have any questions, please contact me at (619) 461-2818 or earlysd@pacbell.net Steve Early - AD6VI, Education Coordinator, San Diego Amateur Radio Council

PARC Members Assist Warner Springs Ranch 50 mile Endurance Ride
by WN6K - Paul E. Dorey

Although January 4th, 2003 it started out as a brisk morning at 36 degrees (F) the crew of 17 operators huddled in the back of the Lake Henshaw Cafe nursing hot cups of warm refreshment while plotting out the day's upcoming strategy. Each year, on the first Saturday after New Years, Warner Springs Ranch and the Vista Irrigation District are host to an Endurance Horse Ride. The ride

which is really a race that measures the ability of the rider to gage their horse's condition to the course is a 50 mile circuit with 2 required stops. PARC members manned these 2 "vet check stations" as well as 3 highway crossings giving the race organizers and other interested parties vital information on the whereabouts in relation to the course their horses of interest were located.

Newest Radio Op. to the crew who for the most part were partaking in their fifth straight year of participation was Larry, KG6OMH who had only received his new ticket just days before. Joining Larry was Sandy, KG6MDQ who lives on the nearby Los Coyotes Indian Reservation. Sandy has helped in past years but this year was special for her also as she was inspired to get her ticket this year and 'could actually talk and help' this time using her own radio.

One of the toughest jobs was the manning of the Base Camp Radio setup. Art, KC6UQH brought a portable 3 element - 2 meter beam (we used PARC's 147.130 machine for the day) to shoot through the trees and horse trailers. Mark, KF6WTN and Larry took the scratch paper notes from Art and input to a laptop so that the Race Manager, Terry Woolley-Howe could determine how the race was going. Mark's harmonic, Jessica had an FRS type radio on her hip so we could find Terry throughout the race period.

Out at the 25 mile point of the race was the first of the two re-

quired stops. There leading the crew to make note of who was coming in and out was the ever friendly - "Always Killing Time", Ted, KD6AKT. Helping Ted out at the Mataguay Boy Scout Camp was Bill, WB6YLT and Fred, K6ISS. This first stop was important in that the Veterinarians at these required stops could pull horses from the competition if there was a problem and vet check operators were calling for trailers to haul horse and riders back to the Base Camp as well as supplies or other course related requests.

The other Vet check at Barrel Springs on S-22 was occupied by another Ted, KF6BFI and his sidekick, Menchie as well as Dennis, KA6DUH. This team has also been a core group and Ted's relaxed manner kept things on par.

One of the highway crossing the horses had to make was at S-2 which as those of you that travel out to the desert will know is a busy highway. Sandy was assisting Ed, W6ABE who worked that spot last year. A newcomer to the group but certainly not to the art of public service was KC6YSO, Dave. Although this was his first Horse Race, Dave does many similar events throughout the year - only they usually involve people running, biking or picking up trash on the beaches.

Near the beginning of the race there was a road crossing on CA-79 near the Henshaw CDF station. This crossing (on the Pacific Crest Trail) was occupied once more this year by another experienced team of race observers - N6UWW, Ellen and

her able assistant - "Wild Bill." Ellen and Bill travel all over the southwest providing radio coverage for off-road races as well as rock climbing events. Other than the occasional 'whinny' the serenity of the valley vista was hard to beat while also much quieter than their usual events. They also brought along a non-ham friend, Dennis who was invaluable as he helped with traffic control and other things at the check point. Wild Bill kept all his activity reports on his trusty laptop and emailed the file in at race's end. As stated this crossing was at the beginning but it caught not only the horses going out but the course was laid out so that they also returned through this spot. And if keeping track of the 77 - 50 mile competitors was not enough, there was a 25 mile competition going on that passed in and out of Ellen's spot too.

The weather turned out to be much warmer than usual this year (mid-day temps near 81) and course damage by the recent Pine Hills Fire made it a tougher race than normal. More than a dozen calls went out for trailers and rider assistance and course manger Wooley-Howe said she was appreciative of the availability of such a 'professional' operation. So after a long dusty day in the Warner Valley, sporting their awarded T-shirts, the last of the crew headed back down the hill about 2 hours after sunset and the '13 machine' was once again quiet. Many thanks to our dedicated crew & 73. If you want to horse around with us next year, mark your calendars now and we will keep a spot for you. WN6K - Paul E. Dorey
Vista, CA 92084 U.S.A
emailat:wn6k@amsat.org

For Sale

(1.20) **Uniden Bearcat Scanner** Model # BC890XLT, Like New with Hamtronics Pre-Amp. One Owner asking \$75.00 OBO. Call Bayard K6GAO at 858-755-5507. I also Have for Sale (1) **Speaker** Kenwood Communication Asking \$10.00. I Have (1) Kenwood SP-70 For Kenwood VHF Radios Asking \$15.00 OBO. Call Bayard K6GAO 858-755-5507.

(1.3) **Kenwood TS-440S** HF w/ mic. and manuals, Astron PS-20A PS, MFJ-949E Tuner, All in good condition, \$300, Oliver W6UAL, 760-940-4274

(1.18) **GENRAD (General Radio) counters.** QTY 2. Models 1192 and 1192B. They worked the last time I used them, but I have moved on to newer equipment. With Manual. \$30 takes both. 760-742-1573 Mornings. de AB6QT.

(11.18) Class A **motorhome cover**, 22' => 26' length w/ extra sun-protection material cost new \$358 incl tx, **now \$100**; (760) 945-1367 Mark WA6DOC

(11.11) Yaesu FT- 1500M Like New in Box with ADMS-2F computer Program and Cable for interface for programing freqs. into radio. Please Call Bayard K6GAO at 858-755-5507. You Can E-Mail me at rehkopf@mail.sdsu.edu.

(11.6) **TEN TEC 525 Argosy** hf tcvr, 10-100 w, 10-80m. 215 pc mike, 225 ps. 227 antenna tuner. ideal beginner station. tr analog tuning knob needs calibrating. all

***Personal equipment ads** are free to members and could be "bumped" after 3 months. Make up your ad like the ones on this page. Send to Scope before the 18th 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

manuals. \$200 Pat KD8CA. 619-523-1833.

(11.2) Aluminum 50 ft. Tower - Five section free standing with base supports. Made by Universal Co. \$100 or make offer. Richard, W6RLC 619-224-9900 Richard L. Carey W6RLC

(10.25) Radio Shack 300-Channel **Handheld Trunk Tracker Scanner.** Pro-90 model. Like new in box 80.00. Louie KF6QBS. 760-727-0846. kf6qbs@amsat.org.

(10.3) **Bencher Paddle Keyer** and **MFJ automatic keyer** (curtis chip). Like New! \$75 Bob AC6JG 760 207-9045.

(9.20) **Cushcraft A3S 3 element tri-band beam** for 10M, 15M and 20M. You can buy it new at HRO for \$399.95. I am selling mine used for \$150.00 complete. Delivery is available. Contact Loren (760) 724-4644 AD6ZJ@ARRL.NET

(7.4) **Bearcat 235** trunktracker \$100, **Bearcat 245** w/comp cable \$150, box, manual. Bearcat III--8 ch. crystal scanner-\$20. Steve KO6ET@Juno.com

(7.2) **SWL Receiver**, Panasonic Mod #RF4800, 1.6-31 mhz + FM 88-108 **Digital Freq Counter** \$100, **Hallicrafter Mod SKI I** Communication Receiver, 80, 40,

20, 15, 10m Double Conversion AM, CW & SSB, 14 tubes, good condition, with manual \$200, **Kawasaki GA I400 Portable Generator**, 120v 1400 watts, 12 v. 8.5 a., Like new condition. \$350, Ed, KK6GO 619-224-8948

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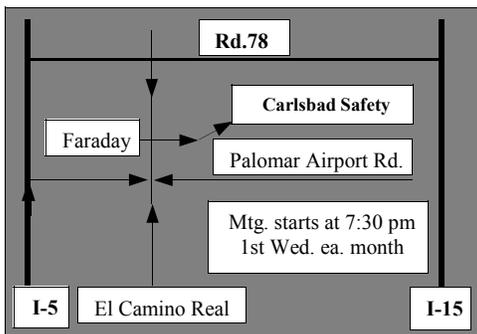
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