



Palomar Amateur Radio Club

December 2002

December Meeting

Meeting will be at the Carlsbad Safety Center on Dec 4, 2002 starting at 7:30 pm. Check out the Xmas Social on **page 6**. January's meeting will be on January 8, 2003.

See you at the social.

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

Well, it seems like only yesterday we were commenting on the 2002 New Year resolutions, and here we are getting ready for another Holiday season.

So what are you planning for this year's enjoyment of the holidays? Hopefully there are lots of fun ideas, and that some of the relaxation time we all enjoy at this time of the year will put you back on touch with the excitement of ham radio.

Have any of you gone looking at the FSK-441 mode W6JAB presented us with during the November meeting? What a fascinating subject. I downloaded the software (it is free), and started playing around with it. Can't say I've had the time to really dedicate to building the interface to the VHF rig yet, but that is a high priority for this coming month.

What I find interesting is that once again the realm of experimenting and just "fiddling" in the ham shack is bringing incredible technology to play at virtually no cost! It makes me wonder if any of or "new" hams might be poised to experiment their way into the record books just by playing around in the shack with the digital modes. I think of the new hams that way because, once upon a time, in a ham shack far, far away, I did not know that things "could not be done", and so experimenting was the fun part of technology.

All this leads me to find of interest the article on page 101 of Novem-

ber's "QST" magazine concerning "In Search Of Amateur Innovation". I recommend you read it. For those of you who do not get QST (and I recommend you subscribe), the article's author (Greg Lapin, N9GL) informs us that major commercial interests who are coveting our ham bands are making the case that Ham Radio Operators no longer experiment, and consequently no longer contribute to the advancement of the communications science. Thus - their reasoning goes - hams no longer need our frequencies.

If you do not follow industry trends, you may be unaware of the tremendous push that has gone into auctioning portions of the radio frequency spectrum as a way of "making money" for the Federal treasury. Maybe the ham bands are next? Think about that the next time you operate on our bands. We need to keep them warm and used.

Leaving behind the intriguing news let me close with a positive thought.

On behalf of the PARC Board of directors, and especially on my part, please accept a very warm wish that you and yours may have a FANTASTIC Christmas Holiday, and a prosperous 2003. Remember to spend every available opportunity enjoying your family and

(Continued Page 4)

Minutes

Palomar Amateur Radio Club, Inc. Board of Directors

November 12, 2002

The regular monthly meeting of the Board of Directors was called to order by NN3V at 7:22 PM on October 9, 2002 at the home of NN3V.

Present were:

President	Charlie Ristorcelli, NN3V	Membership Chairman	Al Donlevy, W6GNI
Vice President	Mark Raptis, KF6WTN	New Hams/Members Rep	Mike McMahan, KG6JMP
Director #2	Jim Cooper, NE6O		
Repeater Technical	Mike Doyle, AB6QT		
Visitor/Club Assets Chairman	Dennis Baca, KD6TUJ		

The Board considered routine PARC business, and several miscellaneous items were discussed. The principal agenda items were covered, with the following issues reviewed.

Club property, status, and location: KD6TUJ reported that the venerable TACO wagon has been disposed of, with only a minor element remaining to be removed. AB6QT and KD6TUJ actively engaged in review of material remaining inside the cargo container. They reported the major items are accounted for, and the container is ready for transfer to the new storage facility. Items remaining in the container will be secured for transfer inside the container. KD6TUJ advised that plan should be ready in order to transfer the container to the new site during the first week in December 2002. After that there is an opportunity to make container items available to PARC members, as there are many items that may have good use by those de-

siring to get involved with construction projects.

The Board approved KD6TUJ recommendations for container movement plans and schedule. KD6TUJ and AB6QT are actively engaged in coordinating the effort.

Club Flyers & Brochure: The brochure is obsolete. KF6WTN has an action item to finalize the rewritten flyer, and distribute the draft to the PARC Board for editing and final printing no later than the Board meeting in December. After that newly printed flyers will be distributed to selected locations throughout San Diego County.

Participation Points: The Board discussed the management and process of awarding Club participation points to Club members. An issue arose concerning the manner in which participation point proxies are administered. A lively discussion followed, after which KF6WTN moved that

proxy procedures be eliminated. There was no second to that motion, and the issue dies in committee. KF6WTN then moved that proxy procedures remain unchanged. The motion was seconded by NE6O, and the motion was carried unanimously. The Board then reviewed the Club participation point award clarification written by W6GNI. Consensus was that the document accurately reflects the Club By-Law concerning participation points. The procedures are published elsewhere in this edition of Scope.

Training: NE6O reported on continuing plans to initiated a technician & general class. Good progress on this longstanding initiative is being made. Research to identify a facility where the class will be conducted revealed *that once again the Carlsbad Safety center is planning to initiate renovation construction.* Because the Board has no formal indication of this situation, KF6WTN is investigating actual status of this rumor.

(cont.)

Last Month's Fold & Staple Crew

Harry W6YOO	Victor N6OYG
Teresa N6UZH	Sonny WA5ACE
Ralph KC6WAN	Merl KR6BT
Larry WA6UTQ	Jo KB6NMK
Jim K6ML	Bill KG6AEW

And especially, hosts, Art and Anita Nye, KB6YHZ and KB6YHY.

And thanks to Jim NE6O, and Jo KB6NMK for filling in for W6GNI at the picnic.

November Goodie's

Preston	W6ASP
Paul	N6ISC
Michelle	KF6WTO
John	W6JFD
Ed	W6ABE

New & Young Ham Licensees:

KG6JMP provided a very encouraging report concerning the pre-meeting dinners held with the new members and new licensees. There is an active group participating in these dinners, and commented and reported upon on the repeaters before the Club meetings. A survey distributed by KG6JMP via e-mail to some 78 new & young members provided good feedback on their interests, and on ideas for encouraging new hams. Particular note was taken of the excellent "elmering" KC6YSO is accomplishing for some new members interested in emergency services. The Board members complemented KG6JMP on his active role in encouraging new licensees and members, and agreed to emphasize support for this effort.

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.

The Board adjourned at 8:25 PM. Next meeting will take place December 11th at the home of NN3V

Special Thanks

As we close the 2002, PARC is pleased to thank all Club members for your strong support of the Club's activities this past year. We've had some real interesting challenges, and the members have rallied to support the Club.

Special thanks to:

K6GO for helping us find a fantastic Field Day location. **AC6V** for a tremendous effort serving as the "PARC Crier" on the repeater, and for leading the crew that ran a fantastic GOTA station at FD. **NA6RS** for making Scope a continued success as the Editor, and for automating the editing and printing process,

Cont. Page 5

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

Pres: Charlie Ristorcelli 858.676.3307	NN3V NN3V@amsat.org
VP: Mark Raptis 760.749.4825	KF6WTN KF6WTN@amsat.org
Sec: Paul Williamson 858.571.8585 760.742-9924 Palomar Mt.	KB5MU KB5MU@amsat.org
Treas: Jo Ashley 760.741.2560	KB6NMK KB6NMK@amsat.org
Dir#1: Paul DeCicco 619-595.0500	NN6X NN6X@amsat.org
Dir#2: Jim Cooper 760-727-8446	NE6O NE6O@amsat.org
Repeater Site: Mike Pennington 760.749-8888	KD6VHI KD6VHI@amsat.org
Membership: Al Donlevy 760.630.3096	W6GNI W6GNI@amsat.org
Repeater Technical: Mike Doyle 760.742.1573	AB6QT AB6QT@amsat.org
Membership Committee: KG6JMP Mike Mc Mahon (non-voting Member)	KG6JMP@amsat.org

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

Jo Ashley	KB6NMK@amsat.org
ASSETS	10/31/02
Cash and Bank Accounts	
CD	2591.56
CD	2750.34
CD	2721.65
CD	3307.38
Checking	3359.17
Post Office	93.73
TOTAL ASSETS	14823.83
LIABILITIES	
Pre-paid dues	11689.00
Prop. Insurance	1200.00
TOTAL LIABILITES	12889.00
EQUITY	1934.83
TOTAL LIABILITIES & EQUITY	14823.83

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	KD6TJ@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
AstSWDvDir	-	
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

The Newcomer's Corner

PARC extends a special greeting to all of our new members, especially those who are new to ham radio! The following benefits are part of your membership:

* A roster of the PARC membership is available from Al Donlevy at the meeting or by email at **W6GNI@amsat.org**.

* Auto-patch access (PIN registration and instructions on operations) is also available from Al Donlevy.

* If you'd like a little extra advice from one of our experienced members, please contact Mike McMahan, **KG6JMP** by email at **KG6JMP@amsat.org**. He will match you with an elmer/mentor.

Don't forget our great website...

www.palomararc.org. It has the schedule of the Nets, info on events, even pictures from the last picnic!

Again, welcome to PARC and congratulations on joining an organization that has been benefiting amateur radio in San Diego County since 1936.

73 de Mike, **KG6JMP**

Board Member representing New Members/New Hams **KG6JMP@amsat.org**

President's Message (Cont.)

friends at this time of the year, because life is short, and no one guarantees tomorrow. This is the best time of the year to reflect on the special nature of family and friends.

73 de **NN3V**

in spite of extensive travels. **KB5MU** for creating our web-site, and for the very professional PARC activity photos he posts regularly on the site. **KF6WTN** for continuing to operate the finest Road Kill Café in hamdom. **N6KI** for his inveterate Elmering of any new ham. **KB6NMK** for unflinching faithfulness in keeping our finances up to date. **W6GNI** for the intricate maintenance of membership data, and for the thankless but all-important task of managing Club participation points. **WB6IQS** for all those hours spent "fixing" PARC "stuff". **AB6QT** for tireless and tiring efforts to keep our repeaters up and operational. **KC6YSO** for dutiful representation of PARC among the emergency services crowd (and learning to shorten his remarks at Club meetings). **KD6TUJ** for dedicating his precious spare time to managing Club property, and organizing and sponsoring the new Club equipment permanent location. **NN6X** for serving as the "legal sage" in the Club. **K6YSO** for never failing to lead the pledge of allegiance at our meetings, and for the many hours of DX experience he passes to members. **KC6UQH** for constant readiness to support equipment maintenance activities to help **AB6QT**. **WN6K** for making sure FD point totals are properly reported, and for making sure PARC gets maximum points in the arcane CW score of FD. **W6JAB** for numerous Club programs that left all in awe, and looking for the man behind the green curtain. **KG6JMP** for the superb effort in getting young and new ham licensees interested in ham radio and Club participation.

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
Chamber of Commerce
720 N.Broadway, Esc 92025

Contact Harry *W6YOO*
760-743-4212 or W6YOO@amsat.org

Register 5-7 days in advance for tests.

Jeff *N6FRW*

Grace *N6WPA*

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Repeater Status

146.730+ : **Normal**
147.075- : **Normal**
147.130- : **Normal**
447.000- : **Normal**
52.680 : **Normal**
146.700- : Packet Repeater **Normal**
145.050 : Packet Digi **Normal**
PALBBS : Bulletin Board **Normal**
AutoPatch : **Normal**
ATV : **Operational**

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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The “**fold & staple**” crew who spend so much time making sure Scope is ready to send through the mail. **NE6O** who made so many young hams happy with his QRPPpppp rig at the FD GOTA station.

de NN3V

Club Membership

More New Members Joining PARC:

**KG6NNG, KC6NLL,
KG6NMM, KG6NDT,
WD6EDK.**

When you hear these calls on a repeater, be sure to greet our new members. In addition 4 members reinstated after considerable delay.

Please check your label each month to check up on me, to see that your renewal get properly credited. Also check to see if there is any additional information, like your membership expiration date, incorrect zip code, e-mail info or even participation points.

Al, W6GNI

Field Day Results

FD I organized for Palomar amateur Radio Club (PARC) was 3A.

W6NWG+AC6V was #22 in class 3A, out of 333 entries in that class, with a score of 7352 (versus a 1st place score of 13252). A very respectable showing for a fun outing, in a fairly tough class.

Contest Corral

Dec 1	ARCI QRP Contest
Dec 6	ARRL 160 Meter Contest
Dec 7	TARA RTTY Spring
Dec 7	Michigan RSK31 Contest
Dec 14	ARRL 10 Meter Contest
Dec 21	Czech RTTY Contest
Dec 28	Canadian Winter Contest
Dec 28	Stew Perry 160 Meter
Jan 1	ARRL Straight Key Night
Jan 4	ARRL RTTY Roundup

Fewer contests this month but we've added a PSK31 and a QRP contest for your contesting pleasure. The two 160 meter contests are especially challenging. See QST, CQ, NCJ and Worldradio for complete rules. CU in the contest.

73, Harry, W6YOO

AC6V was our GOTA station call sign.

73 de NN3V

Rose Parade Help

Tournament of Roses Radio Amateurs (TORRA) is looking for volunteers to help w/ various duties associated w/ the Annual Tournament of Roses Parade. Equipment needed by volunteers would include any of the following: 2m Syn HT, 2m portable w/ mag mount, 2m mobile, portable packet, ATV, APRS. Available assignments include voice communication, packet, ATV or APRS. Shifts available include the following pre-parade & parade shifts: Dec 31 1100-1800 hrs, Dec 31 1800 hrs to Jan 1 0200 hrs, Jan 1 0200 hrs to 1400 hrs. Post-parade shifts available are Jan 1, 2 & 3 from 0800 hrs to 1800 hrs. Dues for TORRA are only \$5 annually and those interested should contact Dave Gross at

(626) 355-3493 or sign up online at <http://www.anet.net/~torra/>

**PARC
CHRISTMAS
SOCIAL**

12/4/02

1930 Hrs.

Come One—Come All

This month's meeting will be held at the Carlsbad Safety Center as usual but with a twist. It will be a time of celebration of Christmas and a time to socialize with your fellow hams. But there is a twist — we each need to bring a desert or goodies if it will be successful. As always, PARC will provide the refreshments (coffee and punch). See ya there. **de PARC Board**

JANUARY MEETING

2nd. Wednesday

January 8, 2003

Location to be Announced

God's In Control

September 11th was time of sad memories for most Americans as we recall the events of the previous year. The ninth floor of my hotel was looking straight across the river at the "Twin Towers". To see them burning and then finally collapse was a sickening feeling. To know that many people were losing their lives at that time in an uncontrollable act of terror by so few brought the question to mind **"where is God?"** Well, I have good news for you. — read on.

Did you know that the space program is busy proving that what has been called "myth" in the Bible is true? Mr. Harold Hill, President of the Curtis Engine Company in Baltimore, Maryland, and a consultant in the space program, relates the following development: "I think one of the most amazing things that God has done for us today happened recently to our astronauts and space scientists at greenbelt, Maryland. They were checking out where the positions of the sun, moon, and planets would be 100 years and 1,000 years from now. We have to know this so we won't send up a satellite and have it bump into something later on in its orbits. We have to lay out the orbits in terms of the life of the satellite and where the planets will be so the whole thing will not bog down." They ran the computer measurement back and forth over the centuries, and it came to a halt. The computer stopped and put up a red signal, which meant that there was something wrong with either the information fed into it or with the results as com-

pared to the standards. They called in the service department to check it out, and they said, 'What's wrong?' Well, they found there is a day missing in space in elapsed time. They scratched their heads and tore their hair. There was no answer. Finally a Christian man on the team said, "You know, one time I was in Sunday school, and they talked about the sun standing still." While they didn't believe him, they didn't have an answer either, so they said, "Show us." He got a Bible and went to the book of Joshua where they found a pretty ridiculous statement for any one with 'common sense.' There they found the Lord saying to Joshua, "Fear them not, I have delivered them into thy hand; there shall not a man of them stand before thee." Joshua was concerned because he was surrounded by the enemy, and if darkness fell, they would overpower them. So Joshua asked the Lord to make the sun stand still! That's right... 'The sun stood still and the moon stayed and lasted not to go down about a whole day!' (Joshua 10:12-13) The astronauts and scientists said, "There is the missing day!" They checked the computers going back into the time it was written and found it was close but not close enough. The elapsed time that was missing back in Joshua's day was 23 hours and 20 minutes... not a whole day. They read the Bible, and there it was—about (approximately) a day. These little words in the Bible are important, but they were still in trouble because if you cannot account for 40 minutes, you'll still be in trouble 1000 years from now. Forty minutes had to be found because it can be

multiplied many times over in orbits. As the Christian employee thought about it, he remembered somewhere in the Bible where it said the sun went BACKWARDS. The scientists told him he was out of his mind, but they got out the Book and read these words in 2nd Kings that told of the following story: Hezekiah, on his death bed, was visited by the prophet Isaiah who told him that he was not going to die. Hezekiah asked for a sign as proof. Isaiah said, "Do you want the sun to go ahead 10 degrees?" Hezekiah said, "It is nothing for the sun to go ahead 10 degrees, but let the shadow return backward 10 degrees." Isaiah spoke to the Lord, and the Lord brought the shadow ten degrees BACKWARD! Ten degrees is exactly 40 minutes! Twenty-three hours and 20 minutes in Joshua, plus 40 minutes in 2nd Kings make the missing day in the universe! Isn't that amazing? God is still in control!

I am one who is glad that we people are not in control. As we approach a new year, we need to keep in mind that we are not alone and those who wish to have control over us and our great country, will not succeed. This Christmas season should be a time when we reflect on all the many blessings we have, and to share with our family, friends, and yes, those who have more need than us. Let's make a difference in 2003.

I wish to all of you a very merry Christmas and a blessed New Year, and thank you all for your continued support of your newsletter.

Your Editor,

Ron NA6RS

For Sale

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

(11.14) **ICOM IC-2000H** 2 Meter Tcvr. 50 W, **HM-95 Mic** with Key pad on back. Very clean, Non-smoker, no scratches. Asking \$75.00 OBO, **Kenwood SP-70 Speaker** \$20.00, **Kenwood Communications Speaker** \$15.00, **Realistic 4" X 4"** with Bracket \$10.00, **ICOM Mic. HM-12** \$15.00. Please Call Bayard K6GAO at 858-755-5507.

(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 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.

***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

(10.25) **DRAKE Q-multiplier** model 583 for use with 455 kc I.F. Make Offer. Ph. 760-742-1573 before 4 pm. de AB6QT

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

(9.30) **TEN/TEC 526** Multi-mode VHF Trans. 6m/2m 1-20 w., w/ power supply, and PAR antennas, **ADI-AT-201** 2m HT, 5w, \$675, Carl N6HLY 858-538-0546

(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

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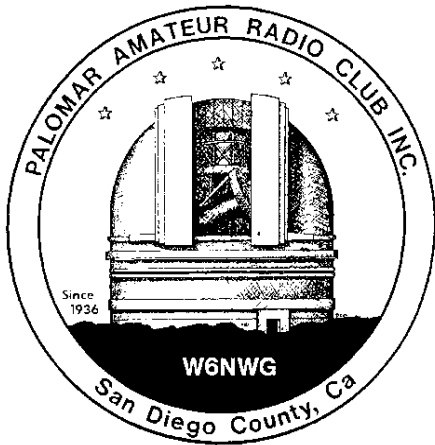
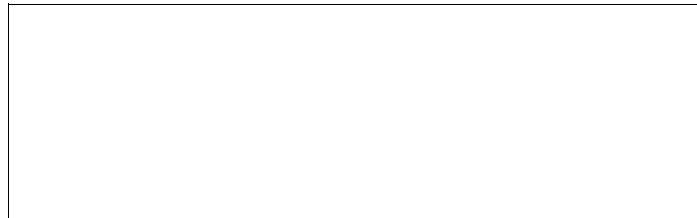
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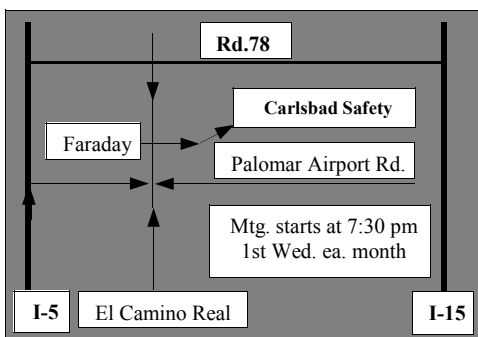
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Scope (USPS #076530) Vol. XXIX No. 12, Dec. 2002, published monthly by PARC
1651 Mesa Verde Dr., Vista, CA, 92084. *Periodicals postage pd. at Vista, CA 92085.*
Dues \$12/yr or \$21/family/yr (includes newsletter subscription)

Editor: Ron Surfield NA6RS, 2605 Emerald Pl., Escondido CA 92027
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