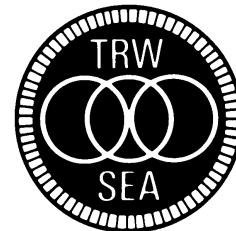




CROSSTALK

News Bulletin of the TRW Amateur Radio Club



Volume 99 Number 2

January/February 1999

Editors Note:

In the last issue, I mentioned that Rich Sauer would not be running for Club President in 1999, well it saddens me to report that Rich has elected to leave the company and is going to pursue other interests that he has been wanting to do. I will really miss him, let's all wish Rich the very best of luck in his future ventures.

1999 Elections:

There was a whopping 40% return on the Ballots that were sent out. Thank You too all that took that extra minute to vote!.

MEMBERSHIP:

It's time to renew your Club membership, inside this issue is a application, so fill it out and mail it asap.

Building Access:

FYI, You must now go to Building **M4** for obtaining temporary visitors badges during after hours and weekends.

Duane Park, WA6EIK Crosstalk Editor

1999 ELECTION RESULTS

PRESIDENT

Greg Shreve KE6YEX

VICE PRESIDENT

Elizabeth Kunkee KS4IS

SECRETARY

Craig Gullickson N6ED

TREASURER

Steve Lambert KQ6ZC

Congratulations to all !!

W6TRW ARC Monthly Calendar of Events

First Tuesday of each month	5:30 pm	Executive Board Meeting, R4/2041 (All Club Members are invited)
Second Tuesday of each month	5:30pm	Club Meeting Round Table Pizza, (Redondo Bch. & Hawthorne)
Second Tuesday of each month	12:00 noon	Emergency Communications Team Meeting R3 Emergency Operations Center
Last Saturday of each month	7:00 am	W6TRW ARC Swap Meet Marine and Aviation (Northeast Corner)
After the Swapmeet	12:00 noon	T-Hunt Swap Meet Parking Lot - 144.72 MHz

Weekly Events

Every Monday Night (Except the 1st & Holidays)	7:30 pm	Disaster Communication Systems (DCS) Net DCS Members: Check in on 2 Meter Repeater
Every Wednesday	12:00 noon	ECT Net on 2 meter Repeater All Amateurs Welcome
Every Thursday	7:00 pm	Space Hams Net on 2 meter Repeater with N6SHI and W6EKK
Every Mon, Wed, Fri	2:00 pm	W6TRW Retirees Net 7185 KHz
Every Friday Morning	7:30 am	W6TRW Amateur Radio Club Breakfast Building S Cafeteria - Everyone is invited Talk-in on 2 Meters

Other Events

Computer Fair *Hours: 10:00 to 17:00 (get a \$25.00 annual pass see: <http://www.lacomputerfair.com/annpass.html>)*

POMONA \$6.00 admission

Live Broadcasts: KFI-Jeff Levy "On Computers", KZLA, Y-107FM

February 20 & 21, 1999 (Sat. & Sun.) bldgs. 6 & 7

Fairplex Exposition Complex Exit Highway 10 at Fairplex Drive.

Go north to McKinley Avenue, turn right. Turn left on White Avenue to Gate 14.

RESEDA \$3.00 admission

February 6, 1999 (Sat.)

Sherman Square Entertainment Center From the 101 Freeway take the Reseda offramp,

go north to Sherman Way and turn right. Go one block to Canby Street. 18430 Sherman Way.

BUENA PARK \$5.00 admission

February 7, 1999 (Sun.)

Sequoia Conference Center Take the Beach Blvd. exit off the 91 Freeway.

Go one block north to 7530 Orangethorpe.

All Shows Open to the Public 10:00 a.m. to 5:00 p.m.

Call for more information (408) 778-5200 or 800-800-5600 Fax# (408) 779-1374

Other Ham Swap meets:

Inland Empire ARC - 2nd Sat. ea. mo. 7:00 to 11:30 AM @ A.B. Miller High School, Walnut & Oleander

in Fontana Talk-in 145.480 (-600 pl=77.0hz)

El Cajon ARC - 1st Sat. ea. mo. 6:00 AM @ Santee Drive-in Theater, Woodside Ave. @ Hwy 67 in Santee Talk-in 146.52

NEW: CAL POLY swap meet – 3rd Sat. ea. mo. 7-11am in lots F8,F9 and F10 @ CAL Poly Pomona at 3801 West Temple.

Talk-in TBD (if you know, please email me... ed.)



W6TRW AMATEUR RADIO CLUB MEMBERSHIP APPLICATION



COMPLETE BOTH SIDES!

ALL APPLICANTS (Please Print Clearly):

Name: _____ Date: _____

Amateur Call Sign: _____ License Class: _____

Student under age 18? _____ ARRL Member? _____

Home Address: _____

City: _____ State: _____ Zip: _____

Home Phone Number: (____) _____ -- _____

E-Mail Address (if any): _____

CURRENT SPACE PARK EMPLOYEES ONLY:

Badge Number: _____ CCC: _____ Phone: _____

Mail Station: Building: _____ Room: _____

FAMILY MEMBERS OF SPACE PARK EMPLOYEES AND RETIREES: *

Name: _____ Call: _____ Class: _____

* Family members of Space Park Employees are *not* eligible for family memberships.
Submit a separate application.

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DUES:

Employee (\$5.00) \$ _____

Retiree (\$6.00) ** \$ _____

Non-Employee (\$10.00) \$ _____

Family Members (\$6.00) \$ _____

W6TRW Club Badge (\$5.00) \$ _____

TOTAL AMOUNT DUE: \$ _____

** Retirees: Badge No. _____

W6TRW ARC CLUB BADGE ORDER:

CALL

FIRST NAME

CONTINUED ON BACK ----->

PLEASE INDICATE THE CLUB ACTIVITIES YOU WOULD LIKE TO PARTICIPATE IN DURING THE COMING YEAR:

- | | |
|---------------------------------------------------|------------------------------------------------|
| <input type="checkbox"/> W6TRW Field Day | <input type="checkbox"/> Monthly Club Meetings |
| <input type="checkbox"/> Contest (HF and VHF) | <input type="checkbox"/> Club Breakfasts |
| <input type="checkbox"/> Emergency Communications | <input type="checkbox"/> Using the Club Shack |
| <input type="checkbox"/> Picnics | <input type="checkbox"/> Club Library |
| <input type="checkbox"/> ARC Swapmeet | <input type="checkbox"/> Antenna Parties |
| <input type="checkbox"/> Technical Challenges | <input type="checkbox"/> Repeaters |
| <input type="checkbox"/> Training | <input type="checkbox"/> Other: _____ |

PLEASE INDICATE YOUR INTERESTS IN AMATEUR RADIO:

- | | |
|------------------------------------|-----------------------------------------|
| <input type="checkbox"/> HF | <input type="checkbox"/> SSTV |
| <input type="checkbox"/> VHF | <input type="checkbox"/> AMTOR |
| <input type="checkbox"/> UHF | <input type="checkbox"/> CW |
| <input type="checkbox"/> Microwave | <input type="checkbox"/> DX |
| <input type="checkbox"/> Packet | <input type="checkbox"/> Computers |
| <input type="checkbox"/> OSCAR | <input type="checkbox"/> DCS/RACES/ARES |
| <input type="checkbox"/> RTTY | <input type="checkbox"/> QRP |
| <input type="checkbox"/> ATV | <input type="checkbox"/> Other: _____ |

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The membership year runs from February 1st to January 31st. Dues are payable in January and are prorated on a quarterly basis thereafter. Please make checks payable to:

W6TRW Amateur Radio Club and send to:

W6TRW AMATEUR RADIO CLUB
 Membership Chairman, S/1156
 One Space Park Drive
 Redondo Beach, CA 90278

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FULL RELEASE OF ALL CLAIMS

In consideration of my participation in the W6TRW Amateur Radio Club and any and all of its events, I, the undersigned, intending to be legally bound, for myself, my heirs, executors and administrators, do hereby fully and finally waive, release and hold harmless the W6TRW Amateur Radio Club, TRW Space Park Employees Association, TRW, Inc., an Ohio corporation, and their respective directors, officers, employees, members, agents and assignees from any and all responsibility, liability, claims, causes of action, injuries, judgments or other damages of any nature whatsoever, including, but not limited to, any personal injuries I might suffer, directly or indirectly resulting from my participation in, or travel to and from the aforesaid activity.

I acknowledge that I am engaging in the aforesaid activity, and knowingly executing this Release, at my insistence and request and that I voluntarily do so without any coercion whatsoever.

Signature: _____ **Date:** _____

Ever wondered what the word "Sig Alert meant, read on.....

"SIG ALERT"

If you have ever driven a car or listened to the radio in Southern California, you have heard the phrase "Sig Alert." Newcomers to the area have probably figured out it is something to do with traffic. Old hands at the daily dance that is driving in Southern California know that it is any unplanned event which blocks a part of the roadway for, at least, thirty minutes.

"Sig" is not an acronym, it is the nickname of the man who invented the Sig Alert. During the mid 1950s, Loyd Sigmon, at the time a part owner of Los Angeles radio station KMPC, discovered that most radio and television stations did not monitor police radios. He thought it might help everyone, if the media could get direct messages from law enforcement whenever a major problem arose on the roadways. The media could then pass this information along to its audiences. Sigmon contacted L.A.P.D. Chief Parker with his idea. The Chief agreed to the proposal if, at least, six stations would participate. "Sig" contacted several stations and won their support for the idea. Electronic equipment was designed which allowed law enforcement to directly broadcast to the media that something big was up, without having to telephone them all individually. And thus, the Sig Alert was born. The first Sig Alert was issued on Labor Day 1955. The rest, as they say, is history.

Courtesy of:
Phil Konstantin
CHP OFFICER #11643
<http://www.geocities.com/CapitolHill/5998/>

A Note From Dave Nelson, AB6DU

This important notice is being sent to you as a reminder so that you do not fail to completely miss out the opportunity to neglectfully not disagree at the session for your portions, or more. So, see you Friday at the Building S messhall at the usual times.

In addition, I need to advise all that it is budget time at the ol' ARC, and if you have a favorite event or project in mind, this is when you can get it started. There are already camps positioning themselves, so its not too early to get your act together. If you don't have an idea of your own, you can remit opinions on the following projects which have already been mentioned in emails and other communications. Your responses can have great impact on the direction the club takes this year, so don't be shy on responses. At the risk of overloading my hard drive, I will volunteer to be the single point of collection, until the Feb 2 exec board meeting where the dealing will be done, so here are some bigbuck items to consider. As better ideas appear, I will forward them as well. Also watch the *Crosstalk*.

1. We wish to finish a big part of the 1997 Vision Statement for the S Shack by erecting a Rohn 45G tower #2, and outfitting it with antennas. We might not complete all the antennas this year. There are quite a few to cover the 6m through 23 cm bands, plus the biggies for 40 and 80 m., but we need the tower first which can also hold up better wire antennas. So this one is a priority with the only uncertainties visible today being how many antennas are actually completed in 1999. The 6 m beam is certainly a priority here.
2. The van will need more attention in the areas of antennas, too. Especially to complete installation of the carry-along tower, and then there's the ATV suite. The long-range plan also wants an all-mode, 160 through 70 cm rig, too.
3. An idea that keeps coming back is the dial-up access to a remote controlled HF rig. The baseline concept for this one is to install a Kachina on the top of E2, with some all-band antenna to get started, and a computer interface to handle access of dues paying members, keep logs on use, and other control parameters. Besides the remote access feature, this could become a second rig for the S shack if the operating console there was configured to control the Kachina. This would help the cosite interference of operating the two rigs simultaneously on HF bands for multi-op contesting. So far though, its only been talked about.

A Note From Dave Nelson, AB6DU (cont.)

4. Field Day always gets a set-aside, based on last years budget, with strong consideration for special items for the current year. This pays off as shown by W6TRW often winning our class. And this year, if there are enough power operators plus the required gear, we could make the top 10 score list. We have done this before and we can do this one. One item I am aware of is a better RTTY station, after the nice "demo" last year, as a new way to get points easier. New antennas will be needed. Perhaps some new RTTY software also, and then there's logging software and computers....

5. Any other S shack ideas can be sent to me, too, as Shackmaster, and I will integrate them into a cohesive plan.

6. Finally, original ideas not yet on the board are welcome. Create, create, create. Then, work, work, work, and we can operate, operate, operate. Any interest in 1.2 GHz digipeaters?

A special note on our Wounded in Action list: John Cheatham, KE6OJM, is at home recuperating from his recent surgery and would certainly welcome a personal get well QSL card. Recent reports are that John is not yet ready to handle a flood of phone calls or visitors, so the USPS is preferred at this time. His address is 2833 W. Orange Ave., Anaheim, CA 92804.

Also, our former treasurer, Jan Parker, KD6AKD, is in a many month process of recovering from back surgery, with 3 to 6 more to go, and would surely also welcome a card. Her address is kd6akd@juno.com, or 22638 Draille Dr., Torrance, CA 90505.

We wish speedy and successful recovery to both from all at W6TRW. If you know of others in need, I will be glad to pass on info to the club.

73

Dave,

AB6DU

TRW ARC Publicity Chairperson

PORTABLE 10-METER OPERATION FROM KH6-LAND by Cal Hashi, KH7W

Over the year-end holiday, I was able to setup and briefly operate a HF station from Maui, Hawaii. My QTH was in Makawao at the 1700-foot elevation on the northwestern slope of the Haleakala mountain (peak elevation 10,000 feet) and about 7 miles from the ocean. Over four days and about 10 hours total operating time, I made 24 QSOs on 10-meter single-sideband. DX contacts included YC8 (Indonesia), ZL2 (New Zealand), JL1 (Japan), KH0 (Saipan), LU5 (Argentina), and VP5 (in the Caribbean). I also made contacts to 13 states, including New Hampshire which is a new one towards my Worked All States award from Maui. The band was open to the mainland daily from about 1900Z to 2200Z (9 AM to 12 noon HST).

I used my Uniden HR-2600 10-meter monobander with 25 watts output, Pyramid 10-amp power supply, and a 10-meter inverted-vee antenna up only 16 feet on a telescoping fiberglass/aluminum paint pole (from a local hardware store) fed with 50 feet of RG-8X-mini coax. Even without a transmatch, the antenna tuned to 1.3:1 as measured with a separate HF SWR/power meter (from the local Radio Shack on sale for \$14). With the modest antenna and low-power, signal reports received averaged about a 5-5.

The main glitch in setting up the station was that I had failed to bring the jumper for the 9-pin miniature Molex connector on the rear of the Uniden rig. The jumper is critical since it enables the radio's internal speaker. Since I had also forgotten the instruction manual, I had to figure out which pins to connect by opening up the radio (I couldn't even find the information on the Web).

Improvements for next time will include bringing my Kenwood TS-50S HF rig instead (more bands, 100 watts output, and narrow CW filter), Bencher paddle/MFJ keyer combination, 7 amp-hour gel cell battery, and a 10-15-20-40 meter trap dipole (setup with a little more height).

Besides the fun from operating a ham station that I had setup, it's certainly unique experience to be able to end QSOs with "73 and Aloha". Cal, KH7W

Contest Corral **by Jim Harrison, K6OUE**

North American Sprint, Phone	0000Z to 0400Z Feb. 7
ARRL School Club Roundup	1300Z Feb. 8 to 0100Z Feb. 13
North American Sprint, CW	0000Z to 0400Z Feb. 14
ARRL Intl. DX Contest, CW	0000Z Feb. 21 to 2400Z Feb. 22
CQ 160 Meter Contest	2200Z Feb. 26 to 1600Z Feb. 28
ARRL Intl. DX Contest, Phone	0000Z Mar. 6 to 2400Z Mar. 7
CQWW WPX Contest, Phone	0000Z Mar. 27 to 2400Z Mar. 28

We have lots of contest results this month. Let's start with the Field Day results in the Dec. 1998 issue of QST.

Field Day

I assume everyone has seen the 1998 Field Day results by now, with W6TRW's winning entry for the seven-transmitter class. We totally clobbered everyone else in our class with 11,786 points and an incredible 3,817 QSOs! And that was all with less than 150 watts. Great going team! The only problem from my point of view is that QST misspelled my call sign. I operated the novice station under my call sign, and QST has me down as K6OVE. Oh, well, what's important is that we won!

The club that beat us in 1997, the Raleigh NC ARS, operated in the eight transmitter class this year and got 13,802 points and 4427 QSOs.

I am proud to be part of a club that does such an excellent job on Field Day. Now the goal for next year can be to get into the top ten in the country. The tenth highest score this year was 13,036 so if we had gotten just 1300 more points we would have been in the top ten. Field Day is in June, so it is not too early to start planning!

By the way, at one of the club meetings I won the 1997 ARRL Contest Yearbook in the raffle. In it there are tables of the record scores for all contests. The all-time record score for class 7A in Field Day is held by W6TRW, 5217 QSOs and 15474 points, made in 1993. So it can be done!

June VHF Contest

The 1998 June VHF QSO Party results were published in the Jan. 99 QST. W6TRW had a modest effort operating from the building S shack. We only operated one of the two days, but we managed to make 190 QSOs to 34 different grid squares for a score of 8,772 points. The top single operator in Los Angeles County got 110,544 points, and the top multi-operator got 235,653 points. Look for a more serious effort in the Jan. VHF Sweepstakes on Jan. 23 and 24.



N6ED operating June 1998 VHF contest from Palos Verdes with two 2m sq loops.

(June VHF Contest cont.)

Craig, N6ED did his own effort operating from his car on Palos Verdes. He made 154 QSOs over 21 grid squares for a score of 3,360, again on just one day. He has a very nice mobile set up for 2 meter SSB, with a power amp and two M2 sq loops with a monster mag mount. He made 2m contacts up into central California and east into the desert and Arizona. He claims he can leave this antenna system on his car while driving the freeways that must generate quite a few stares.

August UHF Contest

The January issue also had the results for the 1998 August UHF contest. This contest is for 222 MHz and up. W6TRW did not compete, but I had just bought an all-mode 2m/440 satellite rig the week before the contest so it gave me a chance to give it a workout. I only operated on 440 and only made 28 contacts, but I was pleased that I at least got all four local grid squares, DM03, DM04, DM13, DM14, and San Diego DM12. This is pretty good for my home QTH which is practically at sea level. The top score in the southwestern division was 5,757 points and 101 QSOs using only 222 and 440.

ARRL Spring Sprints

The ARRL recently announced that it will no longer sponsor the Spring VHF/UHF Sprints due to lack of participation. The sprints were a series of four hour contests for each band 6m and up, spread out over April and May. I liked the sprints because as a family man with young children I can't disappear for an entire weekend to contest, and thus can't be competitive with the people who operate for 48 hours straight. The sprints were only four hours on a weeknight and were one band at a time, so you could concentrate on just one band. They were great for people new to contesting who wanted to try it out and get some experience.

The results of the 1998 sprints were only published on the ARRL's web site. Imagine my surprise when I opened the web page and saw that I had the second highest score in the country in the 1296 MHz sprint! And that was with only 7 contacts! I guess there really was a lack of participation. For that sprint I took the club's all-mode 1296 radio up to PV with a loop yagi antenna. I made 7 contacts over 3 grid squares. The highest score on 1296 was K8TQK in Ohio also with 7 contacts but he got 6 grid squares (he must have been roving). Many thanks to Frank, KC6ABS for two of those 7 contacts.

California QSO Party

Elizabeth Kunkee's husband Dave, K0DI, got the top rover score in the 1998 California QSO Party.

ARRL International DX Contest

In this contest last March, Craig, N6ED operated solo from the TRW ARC shack with our new amplifier and made 1363 QSOs for 1,181,721 points, the second highest score in the entire west coast region! Craig definitely gave the shack a good workout.

Sept. 98 Phone Sprint

Craig, N6ED made 252 QSOs in this four hour HF contest. His score helped the Southern California Contest Club take the lead in the club competition for this contest.

Amateurs Tops with Low Cost Satellites

Jim, K6OUE

I went to a presentation at TRW given by an aerospace industry consultant on low cost satellite production. He consults with the government and industry on reducing the cost of producing spacecraft. He has done a lot of research in the production methods of universities and other organizations that make small, low cost satellites to see how they do it and if their methods can be applied by the major aerospace companies. I really perked up during his presentation when he said that one of the prime examples was AMSAT. He said the amateur satellites are very low cost, they have had very few on-orbit failures, and they have never been behind schedule. If an amateur satellite is late, they are not going to hold up the launch for it, so they have to be on time. It was nice to see that amateurs are still on the cutting edge!

(The following articles are reprints from Newsline #1115)

VK ATV loss

Australian hams are about to lose some prime spectrum used for Amateur Fast Scan television over to digital television. Graham Kemp, VK4BB, of Q-News has more:
ATV repeaters get the chop. Australian Broadcasting Authorities has announced that channel 35 will be required for digital television and the Australian Communications Authority (ACA) has advised the WIA that AT repeaters in Lange Cove and Spingwood in VK2, Spring Hill in VK4, Halerin Hills in VK5, Olinda in VK3 must cease operation at the end of 1999.
What will happen to Amateur Fast Scan Television and where its users will relocate are not known presently.

Disaster costs

If you are a ham involved in disaster communications this information will be of definite interest. The American Red Cross says it spent more on disaster relief in 1998 than in any previous year.

Since January 1st, the Red Cross says that it has responded to 239 domestic disasters affecting 300,000 families in forty-one states, Guam, Puerto Rico and the U.S. Virgin Islands. And this does not count the relief efforts in other nations such as the ongoing efforts in Nicaragua and other Central American countries following Hurricane Mitch.

The relief agency cited the many hurricanes, tropical storms and other natural disasters that struck the United States as the reason. It says that the estimated \$160 million spent in 1998 dwarfs the \$126 million spent in 1992. That's the year Hurricane Andrew devastated Florida and Louisiana, bringing out ham radio operators by the score to aid the Red Cross in its relief efforts.

(Red Cross press release)

New Hamsats numbered

The SEDSAT-1 and PANSAT, have been assigned OSCAR numbers by AMSAT. The AMSAT News Service reports that SEDSAT-1 now is SEDSAT OSCAR-33 while PANSAT is PANSAT OSCAR-34. Both ham-sats were launched earlier this fall.

PANSAT PO-34 SATELLITE "OPERATING WELL" *(Reprinted from the ARRL Letter Volume 18, Number 3)*

The PANSAT PO-34 satellite "appears to be operating well," according to PANSAT team member Dan Sakoda, KD6DRA, but he expressed some concern about battery life. "Basically, the temperatures are a bit lower than we expected, and some of our thinking as far as battery charging were less than optimistic," he explained. "The concern is that we really need to baby the batteries if we're going to have a long mission life."

PANSAT--the Petite Amateur Navy Satellite--was launched over Australia October 30 from the space shuttle Discovery. The 150-pound Amateur Radio satellite carries a spread-spectrum communication package fabricated by student officers and faculty members at the Naval Postgraduate School here as an educational project and a means of demonstrating spread-spectrum communication. The spacecraft will provide store-and-forward digital packet communication using direct-sequence spread-spectrum modulation. Hams on the ground will be able to utilize PANSAT via a bulletin-board type user interface.

Sakoda said now that ground operations are somewhat under control, "the two main staff engineers here can focus on spread spectrum work and pushing for Amateur Radio user access." He said the project's Amateur Radio goal is to "first provide a spread spectrum beacon of sorts, to download at least PANSAT's call sign or some message" that would at least users to receive a signal, "without derailing the work toward a full spread spectrum BBS service."

Sakoda noted that he has added two-line element sets to the PANSAT home page <http://www.sp.nps.navy.mil/pansat>. Click on PANSAT TLE. The site also contains new photos showing the deployment of the satellite from the space shuttle. "All of us here on Team PANSAT at NPS are looking forward to the Amateur Radio community's involvement with PANSAT," he said.

W6TRW AMATEUR RADIO CLUB

ELECTED OFFICERS

President	Greg Shreve	KE6YEX	201A/3009	(310) 812-2079
Vice President	Elizabeth Kunkee	KS4IS	D1 / 1024	(310) 813-0524
Secretary	Craig Gullickson	N6ED	R6 / 2529F	(310) 812-5389
Treasurer	Steve Lambert	KQ6ZC	R6 / 2529	(310) 812-5019

APPOINTED STAFF

447 Repeater Autopatch	Duane Park	WA6EIK	R8 / 2778A	(310) 813-4219
Activities Chairman	Greg Martens	N6RRY	M1 / 1275	(310) 813-4049
Crosstalk Editor	Duane Park	WA6EIK	R8 / 2778A	(310) 813-4219
Emer. Comm. Coordinator	Wendell Young	KE6ASC	R5 / 1060B	(310) 813-7691
Librarian	Steve Papa	KO6VF	O2 / 1715	(310) 812-5305
Membership Chairperson	Dave Nelson	AB6DU	R8 / 2144	(310) 813-9775
Past President	Rich Sauer	N6CIZ		
Publicity Chairperson	Dave Nelson	AB6DU	R8 / 2144	(310) 813-9775
QSL Manager	Bryan DeAro	KN6OW	120 / 1020B	(310) 812-4789
S.P. Packet/Internet Sysop	Chris Wachs	WA2KDL	R7A / 2100	(310) 813-1506
SEA Representative	Nina Whiddon	KN6FL	O1 / 2020	(310) 813-9351
Swap Meet Manager	Greg Martens	N6RRY	M1 / 1275	(310) 813-4049
Technical Chairperson	Various members			
Training Chairperson	Bryan DeAro	KN6OW	120 / 1020B	(310) 812-4789
Trustee of W6TRW License	Elizabeth Kunkee	KS4IS	D1 / 1024	(310) 813-0524

W6TRW ARC Hotline (Club Answering Machine) (310) 813-8569
W6TRW 2 Meter Repeater (Open Repeater) 145.32 (-600) PL 114.8Hz
W6TRW UHF Repeater (Open Repeater / Closed Autopatch) 447.00 (-5 MHz) PL 100 Hz
W6TRW-3 Packet Radio Internet Gateway and BBS (1200 Baud Port) 146.745 (-600)
W6TRW Internet Home Page <http://w6trw.sp.trw.com/w6trw/>

W6TRW Amateur Radio Club
S/1156
One Space Park
Redondo Beach, CA 90278

FIRST CLASS

Deliver To:

