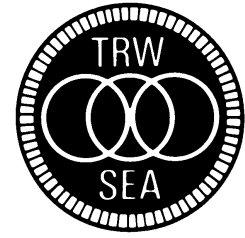




CROSSTALK

News Bulletin of the TRW Amateur Radio Club



Volume 100 Number 3

March 2000

Editor's Corner:

New Club Officers

Please welcome our new incoming elected officers:

Bob Briggs KD6WYQ President
Stuart Gorsky KF6QHV Vice President
Craig Gullickson N6ED Secretary (re-elected)
Rpd Scott KE6PI Treasurer

Let's Thank all of last year's elected officers on a job well done, and a warm welcome to the new officers.

VE Session

Amidst all of the discussions regarding Amateur Radio License restructuring, there were a number of friendly faces at the last K6PYP VE session at Jun's right after the February Swapmeet.

Besides myself Duane WA6EIK the Editor, was Wendy KQ6CG, Brad KR6DN, Paul N6DMV, Dennis KQ6KR, Steve KQ6ZC, and Peter W3CRI as well as roughly 80+ other hams either getting their first Amateur Radio License, or upgrading their current license.

If my sources are correct all of the 7 mentioned above were there to take a stab at Element 4B, the Extra Class theory before the new question pool becomes effective on April 15, 2000. As far as know, all 7 passed!!!

Congratulations to all !!

Crosstalk going electronic??

At a recent Executive Board meeting, there was mention of possibly creating a "Electronic only" version of the Crosstalk. One of the positive points that it could be emailed to the membership (assuming everyone is on email), and those members would have the option to either view it or print it. This also could also be a cost savings to the club. I like the idea for one because there are times when I like to publish graphic items/pictures, etc. in color, this option opens up for many possibilities, everything will also look better, pictures and graphics will have better detail, and if you own a color printer, this will really be a plus for you.

Format would be in Adobe PDF, you can get this reader free on the internet.

So I'm taking a poll from the membership, email me (duane.park@trw.com) or call me at 310-813-4219 and give me your vote.

I'm sure this subject will be discussed more in the near future.

Duane Park, WA6EIK Crosstalk Editor

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TRWARC 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	TRW/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	TRW Retirees Net 7185 KHz
Every Friday Morning	7:30 am	TRW 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: KFWB, KFI, KLOS

March 4 & 5, 2000 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

March 25 & 26, 2000 (Sat. & Sun.)

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

Live Broadcasts: KFI, KFWB

April 22 & 23, 2000 (Sat. & 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)

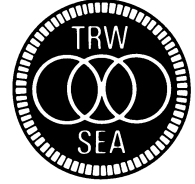
EI Cajon ARC - 1st Sat. ea. mo. 6:00 AM @ Santee Drive-in Theater, Woodside Ave. @ Hwy 67 in **Santee** Talk-in 146.52

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.)



TRW AMATEUR RADIO CLUB
MEMBERSHIP APPLICATION



COMPLETE BOTH SIDES!

Name: _____ Date: _____

Amateur Call Sign: _____ License: EXT _____ ADV _____ GEN _____
NOV _____ TEC + _____ TEC _____

Student under age 18? _____ ARRL Member? _____

CURRENT TRW SPACE PARK EMPLOYEES ONLY:

Badge Number: _____ CCC: _____ Phone: _____

Mail Station: Building: _____ Room: _____

ALL APPLICANTS:

Home Address: _____

City: _____ State: _____ Zip: _____

Home Phone Number: (____) _____ - _____

Please provide ways to contact you or to send club bulletins, e.g. email address (home and/or work), fax no. cell phone, pager, or other:

FAMILY MEMBERS OF TRW SPACE PARK EMPLOYEES AND RETIREES *

Name: _____ Call: _____ Class: _____

Only family members of TRW Space Park employees are eligible for family memberships on the employee's form. All others should submit separate applications.

DUES

TRW/ARC CLUB BADGE ORDER:

TRW Employee (\$5.00) \$ _____
TRW Retiree (\$6.00) ** \$ _____
Non-TRW (\$10.00) \$ _____
TRW Family Members (\$6.00) \$ _____
Club Badge (\$5.00) \$ _____

CALL
FIRST NAME

TOTAL AMOUNT DUE: \$ _____

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

* Retirees - List TRW Badge No. _____

CONTINUED ON BACK ----->

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"/> TRW/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: _____ |

What do you like best about the TRW ARC?

=====

FULL RELEASE OF ALL CLAIMS

In consideration of my participation in the TRW/SEA 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 TRW/SEA Amateur Radio Club, TRW Space Park Employees Association, TRW, Inc., and 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:** _____

=====

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 **TRW AMATEUR RADIO CLUB** and send to:

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

PRB-1 Bill Introduced in California Senate *via the ARRL Letter Volume 19, Number 8*

NEWINGTON, CT, Feb 24, 2000--California has become the latest state to consider [PRB-1](#) legislation. ARRL Southwestern Director Fried Heyn, WA6WZO, reports Senate Bill 1714 was introduced February 23 in the California Senate.

Like a similar PRB-1 measure passed last year by Virginia's General Assembly, the California bill would require localities to accommodate Amateur Radio antennas of up to 200 feet, according to local population density. Echoing the language of the PRB-1 limited federal preemption, the measure says that local ordinances regulating antenna placement, screening or height "shall reasonably accommodate amateur radio antennas and shall impose the minimum regulation necessary to accomplish the legitimate purpose of the city or county." Under the proposed bill, cities or counties with population densities of 120 persons or less per square mile (according to the 1990 US Census) would not be able to restrict Amateur Radio antennas to less than 200 feet above ground nor restrict the number of support structures.

Localities having population densities greater than 120 people per square mile would not be able to restrict ham antennas to less than 75 feet above ground. In both cases, localities would not be allowed to restrict the number of support structures.

The bill stipulates that "reasonable and customary engineering practices shall be followed in the erection of amateur radio antennas." It also would not preclude localities from regulating amateur antennas with respect to the use of screening, setback and placement, and health and safety requirements.

Heyn credited Michael Mitchell, W6RW, will helping to get the bill introduced, and he asked California amateurs and clubs to contact their state lawmakers to support the measure.

Old Satellite Retooled For New Use *via the ARRL Letter Volume 19, Number 8*

NEWINGTON, CT, Feb 24, 2000--UO-14 is proving that you can teach an old bird new tricks. The venerable British satellite recently was switched to FM repeater mode, and reports already are coming in from hams who've worked it using pretty modest equipment.

The satellite's controller Chris Jackson, G7UPN/ZL2TPO, says UO-14 was launched in January 1990 and spent its first 18 months in orbit operating as an amateur store-and-forward satellite, prior to the launch of UO-22. It was then switched for use by Volunteers In Technical Assistance, who used it for messaging into Africa.

"Since the computer which is used for store-and-forward communications is no longer able to perform that task, UO-14 is no longer usable in this mode," Jackson says. "It is, however, possible to use the satellite as a single-channel FM voice repeater, and I have just configured the satellite to do this."

The satellite works as an "FM bent pipe repeater satellite" in full duplex. Operators with full-duplex transceivers will be able to hear their downlink signal as they transmit. Half-duplex operation also will work satisfactorily.

The uplink is 145.975 MHz, and the downlink is 435.070 MHz. Jackson says he plans to leave the satellite in FM mode for the next few weeks. "If it is useful, then I will probably leave it running," he said. "If it isn't used, it will be switched to transmitting telemetry."

Houston AMSAT Coordinator Bruce Paige, KK5DO, says no more than 5 W is required to make a contact with UO-14, and some have made it with as little as 1.5 W. "It should be a very suitable bird for those with an H-T and a rubber duck," he said.

"Cool satellite!" was the reaction of W1AW Station Manager Joe Carcia, NJ1Q, who worked 11 stations during a "very short" 10° pass today. "Some of the stations sounded like they were next door!"

Carcia said he had a pileup going, and his best DX was VE8EV in CP38.

Pre-March 21, 1987, Technician *redux*: To qualify for a General class license starting April 15, 2000, applicants must present valid credit for Elements 1, 2, and 3 at a volunteer examiner session. Those who held a Technician license, now expired or otherwise, prior to March 21, 1987, may claim Element 1 (5 WPM Morse code) and new Element 3 (current Element 3B, General exam) credit. Those who held a Technician license, now expired or otherwise, prior to February 14, 1991, may claim only Element 1 credit, as may anyone who has ever held a Novice ticket. The FCC rules provide Element 2 credit *only* for individuals who are currently licensed (or within the two-year grace period for renewal) at least at the Technician level. This means that before applying for a General license, a former amateur licensed as a Technician prior to March 21, 1987, and no longer licensed or within the two-year grace period for renewal, also must obtain Element 2 credit. To currently qualify for the Technician *license* (which conveys Element 2 credit) requires passing a 65-question two part exam (Novice and Technician). Starting April 15, Element 2 will be a single 35-question exam.

FROM THE MAIL BAG *by Rod Scott KE6PI*

During February, we received another package from the QSL Bureau. It contained mostly year old cards, but from interesting places, like the Marquesas, and Solomon Islands. A few are from the 1999 10m contest. The following table summarizes the set. These cards will be in the S-shack, if you want to see or claim them

CALL	Location	Date	Band	Mode
H40AA	Lata, Solomon Islands	2 Apr '98	21 MHz	SSB
		10 Apr '98	24 MHz	SSB
XE2HWB	La Paz, Mexico	13 Jun '98	50 MHz	SSB
7L4IOU	Tokyo, Japan	15 Jun '98	14 MHz	FSK
JR3NZC	Nara, Japan	12 Sep '98	21 MHz	SSB
FO0K0L	Nuku Hiva, Marquesas Island	1 Jan '99	14 MHz	SSB
LU5MAO	Mendoz, Argentina	3 Feb '99	14 MHz	McFone
ZM2RR	Wanganui, New Zealand	12 Dec '99	28 MHz	SSB
JN3SAC	Osaka, Japan	12 Dec '99	28 MHz	SSB

To show that the shack isn't only for HF, Jim Harrison K6OUE made use of it on VHF/UHF to run a series of QSO using the new SO-35 satellite. He did this during one of the first weekends that the satellite was available. As a result of this effort, we have received QSLs from the following stations: K5OE, N9TDX, K6YK, W7JPI, KC0GCK, and K5VAS.

The following is a list of the new letters we get.

Club	Location
South Bay Amateur Radio Club	Torrance
United Radio Amateur Club	LA Maritime Museum
San Diego Repeater Association	San Diego
JPL amateur Radio Club	La Canada

Finally for all those waiting for it, we did get the winter issue of the Amateur Television Quarterly.

Rod Scott KE6PI

ARISS CREWS GET INITIAL HAM GEAR TRAINING

via the ARRL Letter Volume 19, Number 8

The first International Space Station expedition crew and its backup crew have received some initial training on the use of the initial US-provided Amateur Radio gear to be installed as part of the Amateur Radio on the International Space Station, or ARISS, effort. The session was conducted at Russia's Gagarin Cosmonauts Training Centre.

As part of the ARISS training effort, NASA's Matt Bordelon, KC5BTL, is preparing a consolidated schedule for training in the US and in Russia that will include familiarization with equipment, packet theory and hands-on training, using a hardware mockup, and simulation. Training will focus on general principles of ham radio as well as preparations to use ham radio, equipment types and operating modes, and general packet module information and software.

Bordelon has held an initial training session with astronauts and cosmonauts that provided exposure to the actual hardware. Other training has included the information required to obtain an US Amateur Radio license. The first ISS crew includes US astronaut Bill Shepherd, KD5GSL, and Russian Cosmonauts Sergei Krikalev, U5MIR, and the recently licensed Yuri Gaidzenko, whose call sign was not available.--Carolynn Conley, NASA

NEW PLACENCIA CALIFORNIA "CATCH 22" ANTENNA ORDINANCE

Via Newsline #1176 - 2/27/2000

Some good news for hams living in Placencia, California. This with word that the Placencia City Council changed the city code to allow the installation of 75 foot tall crank-up antenna towers on residential properties by incensed amateur radio operators.

In years past Placencia had opposed antennas of this height. But members of the Placencia Radio Amateur Emergency Services group asked that the law be changed because it hindered their public service activities. Activities that they say aid the community of Placencia and surrounding cities in time of disaster.

The Placencia City Council agreed. But also included a kind of Catch 22. The Los Angeles Times says that the amendment adds the definition of "amateur radio towers" into the city code and permits the installation of antennas of up to 75 feet when extended. But these antennas must also be able to be retracted to no more than 6 feet above the maximum allowable height of a building in that particular zoning district.

(Newsline from various sources)

TOPO MAPS FOR THE ENTIRE U.S. NOW ON-LINE

Via Newsline #1176 - 2/27/2000

Free topographic maps are said to be available on-line for the "entire United States" courtesy, in part, of the U.S. Geological Survey. The site does lack some maps or portions of maps, it is impressive overall. You can find them at:

www.topozone.com

(CGC Communicator)

CONTESTS

- QCWA QSO Party, 1900Z Mar 11 until 1900Z Mar 12
- World Wide Locator Contest, 0000Z Mar 11 to 2400Z Mar 12
- CLARA and Family HF Contest, phone and CW, 1700Z Mar 14 until 1700Z Mar 15
- Alaska QSO Party, 0000Z Mar 18 to 2400Z Mar 19. Work AK stations only (AK stations work everyone)
- Virginia QSO Party, 1800Z Mar 18 to 0200Z Mar 20
- Bermuda Contest, 0001Z Mar 18 to 2400Z Mar 19
- CQ WW WPX Contest, phone, 0000Z Mar 25 until 2400Z Mar 26

TRW AMATEUR RADIO CLUB

ELECTED OFFICERS

President	Bob Briggs	KD6WYQ	01 / 2210	(310) 813-2622
Vice President	Stuart Gorsky	KF6QHV	R5 / 1060	(310) 812-0255
Secretary	Craig Gullickson	N6ED	R6 / 2529F	(310) 812-5389
Treasurer	Rod Scott	KE6PI	R7 / 2253E	(310) 813-1493

APPOINTED STAFF

447 Repeater Autopatch	Duane Park	WA6EIK	M2N / 1384b	(310) 813-4219
Activities Chairman	Greg Martens	N6RRY	M1 / 1275	(310) 813-4049
Crosstalk Editor	Duane Park	WA6EIK	M2N / 1384b	(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	DH4 / 2461	(310) 764-3496
Past President	Greg Shreve	KE6YEX	Offsite	
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	M4 / 2375	(310) 813-1506
SEA Representative	Nina Whiddon	KN6FL	01 / 2020	(310) 813-9351
Swap Meet Manager	Greg Martens	N6RRY	M1 / 1275	(310) 813-4049
Technical Chairperson	John Cheatham	KE6QJM	R9 / 2477	(310) 813-5903
Training Chairperson	Bryan DeAro	KN6OW	120 / 1020B	(310) 812-4789
Trustee of W6TRW License	Elizabeth Kunkee	KS4IS	D1 / 1024	(310) 813-0524

TRW 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://www.w6trw.ampr.org/w6trw/

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

FIRST CLASS

Deliver To:

