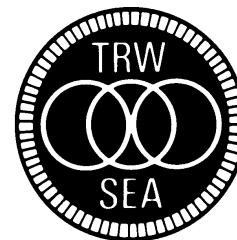




CROSSTALK

News Bulletin of the TRW Amateur Radio Club



Volume 97 Number 11

November 1997

Editor's Notes:

I hope all of you have a Happy Thanksgiving. Don't forget, as of November 1st, there are only 54 shopping days left until Christmas.

BANQUET '97

By now, you should have turned in your Banquet registration form. Remember, the cut off date is November 5th, and seating is limited.

Executive Board Nominees

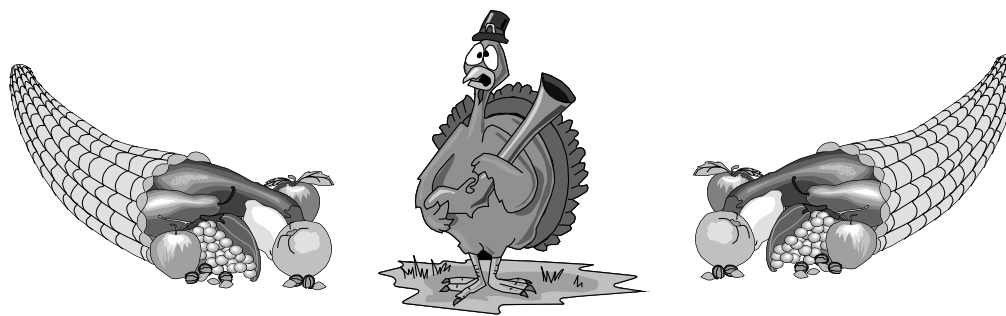
Would you like to take part in a very worth while cause and become part of the TRW ARC Executive Board?. In 1997, there will be openings for President, Vice President, Treasurer, and Secretary. All of these positions play a very important role in the club and besides, it can be very rewarding to be a part of the club. Please take time out of your busy day and fill in your suggestions/nominations on the Nominee form provided in this issue and return it to me ASAP!. ed.

FCC SEQUENTIAL CALL SIGN UPDATE

The following is a list of FCC sequentially assigned call signs issued as of October 1, 1997.

District	Group A Extra	Group B Advanced	Group C Tech/Gen	Group D Novice
0	AB0GH	KI0KE	++	KC0CAA
1	AA1SS	KE1IP	N1ZSQ	KB1CFD
2	AB2EH	KG2MP	++	KC2CLQ
3	AA3QI	KF3AJ	N3ZXI	KB3BV1
4	AF4FS	KU4LB	++	KF4UEF
5	AC5NX	KM5MG	++	KD5CIQ
6	AD6DF	KQ6RZ	++	KF6NMB
7	AB7WM	KK7KB	++	KC7ZHD
8	AB8BG	KI8DU	++	KC8IOH
9	AA9UY	KG9LK	++	KB9RLN
N Mariana Island	NH0B	AH0AY	KH0GT	WH0ABI
Guam	++	AH2DE	KH2SL	WH2ANV
Hawaii	AH7V	AH6PD	KH7GU	WH6DE1
American Samoa	AH8P	AH8AH	KH8DK	WH8ABF
Alaska	AL0F	AL7QU	KL0KK	WL7CUM
Virgin Islands	++	KP2CM	NP2JT	WP2AIJ
Puerto Rico	NP3O	KP3BC	NP3RE	WP4NMM

++ All call signs in this group have been issued in this district.



TRWARC Monthly Calendar of Events

First Tuesday of each month	5:30 pm	Executive Board Meeting (All Club Members are invited)
Second Tuesday of each month	5:30 pm	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

Reoccurring 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 Night	6:30 pm	TRW Amateur Radio Club Net The Bob and ? Show - Check In on 2 Meter Repeater
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 (previously The Computer Marketplace Computer Shows) **Hours: 10:00 to 17:00**

POMONA \$8 admission

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

November 1 & 2 (Sat. & Sun.)

November 22 & 23 (Sat. & Sun.)

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 admission

November 29 (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 admission

November 30 (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:

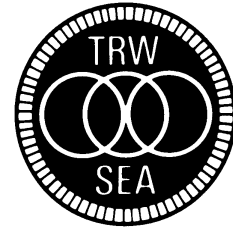
Inland Empire ARC - 2nd Sat. ea. mo. @ A.B. Miller High School, Walnut & Olenander in **Fontana** - Talk-in 145.480 (-600 pl=77.0hz)

CMRA - 3rd Sat. ea. mo. @ DeVry Institute, 901 Corporate Center Dr. **Pomona** - Talk-in 146.175 (+600)

El Cajon ARC - 1st Sat. ea. mo. @ Santee Drive-in Theater, Woodside Ave. @ Hwy 67 in **Santee**



**1997 TRW ARC
Executive Board Officers
Nomination form**



Please indicate your nomination for the following positions, remember that the person must be a full time TRW employee, and a active member of the TRW Amateur Radio Club.

- President _____ M/S _____ Call _____
- Vice President _____ M/S _____ Call _____
- Secretary _____ M/S _____ Call _____
- Treasurer _____ M/S _____ Call _____

Return form no later than November 22nd, 1997

To: Duane Park
One Space Park Drive
M2N/1368B
Redondo Beach, Ca. 90278

THE CARE AND FEEDING OF YOUR PET HAM

Sent in by N6CIZ

The Pet Ham is one of the most intelligent of pets. Often seeming almost human. But he can also be one of the most difficult to keep. Only a person with a great deal of patience and understanding should attempt to keep a Pet Ham.

The following is a short guide to some of the most important things that you should know about caring for your Pet Ham.

1. **LIVING AREA:** Your Pet Ham should have a private area of his own, an entire room, if possible, where he will not be disturbed. He will spend many happy hours alone there with his collection of treasures, (boxes, wires, bits of metal, glass, paper, plastic, etc. that he will bring home regularly). He should be encouraged to confine his activities to this nest room in order to protect the rest of the house from his natural tendencies toward noise, clutter and making holes in the walls.
2. **EXPENSES:** Raising your Pet Ham can turn into an expensive hobby. But, unlike most pets, the Pet Ham can be trained to work outside the home for short periods and so bring in enough money to cover part or all of his expenses.
3. **FEEDING:** The well behaved Pet Ham will be able to eat with the family on occasion. But he usually feels more comfortable and secure if he can take many of his meals in the privacy of his nest room. It will be your responsibility to see that your Pet Ham is kept well supplied with food and drink during the long periods of time that he will spend alone in the nest room.
4. **HOUSEKEEPING:** Pet Hams can usually be trained to use the family bathroom facilities.
5. **OBEDIENCE TRAINING:** Most Pet Hams can be trained to respond to a few simple commands...the easiest for him being sit and speak. Once your Pet Ham has learned these commands, he will sometimes practice them on his own for hours at a time.
6. **HEALTH CARE:** The Pet Ham is especially prone to minor irritations of the lower back and sore throat from too much sitting and speaking. The special CW breed tends to have a tired wrist rather than sore throat, and RTTY versions may suffer from tired and hurting eyes depending on his age and the monitor he uses.
7. **TRAVELLING:** Your Pet Ham will gladly travel with you in the family car if he is allowed to bring some of the collection from his nest room. His favorite trips will be to places where he can associate with other Pet Hams from other families.
8. **BREEDING:** If you plan to breed your Pet Ham, you should do so as early as possible after you get him...as the Pet Ham matures he becomes more and more reluctant to engage in any activities not connected with his nest room collection.

GEORGIA HAM WORKS KC5VPF ABOARD MIR

Reprinted from the ARRL Letter Volume 16, Number 41

US astronaut Dave Wolf, KC5VPF, has settled in aboard the Russian Mir space station to the point that he finally got a chance to get his feet wet on 2-meter FM last weekend.

Tom Crowley, KT4XN, in Atlanta, Georgia, reports he responded to Wolf's CQ as the spacecraft passed over Southern Florida. "We talked for about 5 or 6 minutes on 145.985 MHz," Crowley said.

"Dave said they had just finished dinner and watching a movie. He said he was trying to fix the CD player for music. Otherwise, just enjoying the view and taking it easy on Sunday."

The contact between Wolf and Crowley was the first reported Mir-to-Earth FM voice contact since Wolf joined the Mir crew in September. Wolf is a relatively new ham and has little on-the-air experience. Before he returned to Earth, Wolf's predecessor, Mike Foale, KB5UAC, gave him a quick course on how to use the ham gear and packet system.

Incidentally, the SAFEX 70-cm FM repeater aboard Mir is not yet back in operation.

NASA: KD5CHF TO BE NEXT -- AND LAST -- US ASTRONAUT ON MIR

It's now official: Astronaut Andrew S.W. Thomas, KD5CHF, will be the final US crew member to live and work aboard Russia's Mir space station.

Thomas will launch aboard the shuttle Endeavour as a member of the STS-89 crew in January 1998 to begin a four month stay on Mir. He has been training in Russia since January of this year as the backup to David Wolf, KC5VPF, who began his tour aboard Mir on September 28.

"Andy's assignment to Mir provides a great deal of flexibility to support crew activities on board," said David C. Leestma, N5WQC, director of Flight Crew Operations. "I have every confidence in his abilities. He will be a valuable addition to the crew."

Thomas, recently in the US for science training to support his Mir mission, returned to the Gagarin Cosmonaut Training Center in Star City, Russia, outside Moscow in early October. Joining Thomas on the return trip to Russia was astronaut James S. Voss, who will serve as Thomas' backup. Voss has been training in Russia as backup to Michael Foale. Thomas will join previously named STS-89 crew members Commander Terrence W. Wilcutt; Pilot Joe Edwards; Mission Specialists Bonnie J. Dunbar; Michael P. Anderson; James F. Reilly II; and Cosmonaut Salizhan Shakirovich Sharipov, a first-time space flyer.

Thomas' scheduled departure from Mir aboard Discovery (STS-91) next May will conclude more than two years of continuous American presence on Mir, which began in March 1996 with the arrival of astronaut Shannon Lucid. --NASA

NO HAM "VICTORY" IN RECENT LITTLE LEOS PACT

Reprinted from the ARRL Letter Volume 16, Number 41

Several hams have touted a recent FCC announcement about Little LEO allocations as a victory for ham radio. This is not the case, however. The recent announcement simply formalized an agreement among the five remaining Little LEO (low earth orbiting satellite industry) applicants over how to divvy up VHF allocations the industry already shares with US government services.

As noted elsewhere in this edition of The ARRL Letter, a request for additional allocations (and the remote possibility of sharing on amateur frequencies) will be on the table at WRC-97 in Geneva, which kicks off later this month. This is not an issue for the FCC alone to decide, but the FCC has had input to the positions of the US delegation to WRC-97. At this time, there are no US proposals on the table at WRC-97 that involve Little LEO sharing of Amateur Radio frequencies.

In reporting the new agreement recently, Wireless Week quoted Aileen Pisciotta, attorney for Final Analysis (one of the remaining Little LEOs), as saying: "It is agreed to with the expectation that additional spectrum will be made available in the future." As most hams know by now, the Little LEOs already have proposed sharing three of our VHF and UHF bands to obtain that "additional spectrum" that Final Analysis is "expecting" to get.

The Little LEOs already have access to 148-149.9 MHz (uplink) and 137-138 MHz (downlink), plus some space in the 400 MHz band.

SEARCH CONTINUES FOR NEW PHASE 3D VEHICLE

Reprinted from the ARRL Letter Volume 16, Number 41

Germany's AMSAT Vice President Peter Guelzow, DB2OS, this week expressed confidence that the Phase 3D Amateur Radio satellite will get off the ground in 1998. "We are certain that P3D will be launched next year on an Ariane," he said in a statement released by AMSAT News Service.

Guelzow's prediction concluded a lengthy statement in which he called on hams to not "jeopardize the present negotiations by speculations and expressions of bad tempers." Phase 3D had been scheduled to be launched aboard an Ariane rocket in late September (the launch of the Ariane 502 has since been delayed by another month until October 28 "at the earliest"). But last-minute revisions in the European Space Agency's predictions of vibration and stress aboard the flight meant AMSAT had no time to meet new mechanical specifications and still stay on schedule. Guelzow called the situation "very regrettable," but said AMSAT had to accept it.

Some hams were not as complacent, however and publicly took ESA to task for bumping Phase 3D from the Ariane 502 launch. As the Phase 3D Program Board had done just last month, Guelzow suggested that such actions were counter-productive. He also said he's optimistic that the Phase 3D program will learn and benefit from the Ariane 502 launch, once it happens.

"Immediately after the AR-502 launch, AMSAT and ESA will have enough facts to search for an amicable solution which will guarantee an early launch of P3D taking into consideration the actual Ariane flight-planning," Guelzow said. --AMSAT News Service

SOLAR UPDATE

Reprinted from the ARRL Letter Volume 16, Number 41

Propagation prognosticator Tad Cook, K7VVV, in Seattle, Washington, reports: Judging from the high solar flux and sunspot activity over a month ago, recently we expected to see more of that same activity, since the sun rotates relative to Earth once every 27.5 days. Unfortunately, by the time the rotation was complete, most of those active regions were gone.

This week we saw solar activity go up only by a little. On five out of seven days the solar flux was above the average for the previous 90 days. Geomagnetic activity was up a lot though over last weekend, when the Estimated Planetary K Index was up to six over several periods. This is a very high value, indicating very stormy conditions with high absorption of radio signals. The most

recent forecast indicates a small rise in solar flux into the low 90s next week, peaking around October 22 and 23, then dropping back to the mid-80s before the end of the month. Look for unsettled to active geomagnetic conditions around November 5 and 6.

The NOAA Space Environment Center reports that a panel of solar experts met recently and fixed the probable date for the solar minimum around October 1996 and within a possible range from May through December. Panelists believe that Cycle 23 should be a large cycle, but not as big as Cycle 19 in the late 1950s. They expect it to peak around March 2000 and within a range from June 1999 to January 2001. This places the peak in the very near future, but sunspot cycles go up much faster than they go down.

Sunspot numbers for October 9 through 15 were 27, 44, 31, 60, 44, 44 and 47 with a mean of 42.4. The 10.7-cm flux was 83.5, 84.2, 86.1, 88.7, 88.3, 84.8 and 86.9, with a mean of 86.1, and estimated planetary A indices were 19, 27, 26, 7, 7, 5, and 4, with a mean of 13.6.

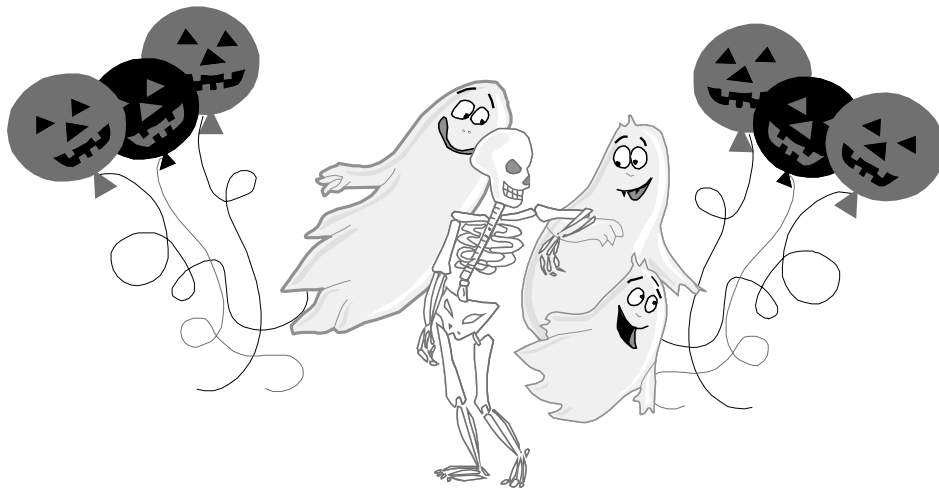
Vanity update: With the FCC yet to announce when it plans to open the last vanity call sign program gate, the program continues to be popular. The FCC in Gettysburg reports it received 601 vanity applications during the month of September. More than 400 of them were filed electronically. Gettysburg processed all vanity applications through August 29, 1997. There were 390 grants and 305 WIPs (work in process). The FCC said it expected to complete WIPs processing for August this week. There's still no word on when Gate 4 will open. --FCC

For Sale

Kenwood 78A (2M/440) w/extra battery. Asking \$250

Kenwood TS-830 w/CW filter digital freq. readout and WARC bands. Asking \$550

Call David Lopez at (310) 814-3297.



TRW AMATEUR RADIO CLUB

ELECTED OFFICERS

President	Bob Briggs	KD6WYQ	R8 / 2188	(310) 813-2622
Vice President	Pat Anderson	KB6YPI	R7A /1265	(310) 813-6874
Secretary	Nina Whiddon	KN6FL	O1 / 2020	(310) 813-9351
Treasurer	Jan Parker	KD6AKD	R4 / 2058	(310) 812-1081

APPOINTED STAFF

447 Repeater Autopatch	Pat Anderson	KB6YPI	R7A /1265	(310) 813-6874
Activities Chairperson	Greg Martens	N6RRY	M1 / 1275	(310) 813-4049
Crosstalk Editor	Duane Park	WA6EIK	M2N / 1368B	(310) 813-4219
Emer. Comm. Coordinator	Duane Park	WA6EIK	M2N / 1368B	(310) 813-4219
Librarian/Asst. Postmaster	Steve Papa	KO6VF	M5 / 1263	(310) 812-5305
Membership Chairperson	Jerry Dean	WA6GVO	R2 / 1036	(310) 812-0770
Past President	Frank Cartier	W6FC		(603) 964-2059
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	Elizabeth Kunkee	KS4IS	D1 / 1024	(310) 813-0524
Swap Meet Manager	Rich Sauer	N6CIZ	R9 / 2849	(310) 813-5869
SYSOP (Telephone BBS)	Ron Hoffman	KE6OJD	M4 / 2031C	(310) 814-9126
Technical Chairperson	John Cheatham	KE6OJM	R9 / 2838	(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 Telephone Computer BBS (24 hrs, 300-14,400 Baud, 8-N-1) (310) 768-3399
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://w6trw.sp.trw.com/w6trw/>

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

FIRST CLASS

Deliver To:

