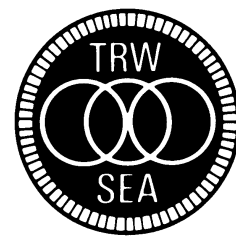




CROSSTALK

News Bulletin of the TRW Amateur Radio Club



Volume 97 Number 1

January 1997



Floyd, KD6GKS (ret.) poses with his XYL, Vivian, KD6NBK.



A few items that were retrieved.



Here is a rare shot of Norm N6NS, and Vivian, KD6NBK.

As promised, here are a few pictures submitted by Vivian, KD6NBK from the last Harbor Cleanup.



Frank Cartier, W6FC, and his wife Gwen, KD6YYW took a moment from their busy day to pose for a picture. This was Frank's last Swapmeet as Manager, but don't worry, Frank says he'll be around to help.



Here is Frank, W6FC turning over his position as Swapmeet Manager to Rich, N6CIZ, the NEW Swapmeet Manager. Congratulations Rich!!

TRWARC Monthly Calendar of Events

January 1997:

Tuesday, January 8	5:30 pm	Executive Board Meeting (All Club Members are invited)
Tuesday, January 15	5:30 pm	TRW Cafeteria
Friday, January 17	12:00 noon	Technical Chairman's Meeting Building S Hamshack
Tuesday, TBD	12:00 noon	Emergency Communications Team Meeting R3 Emergency Operations Center
Saturday, January 27	7:00 am	TRW/ARC Swap Meet Marine and Aviation (Northeast Corner)
Saturday, January 27	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
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 Marketplace (Computer Shows) *Hours: 10:00 to 17:00*

POMONA \$8 admission

January 18 & 19 (Sat. & Sun.) **February 8 & 9** (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.

BUENA PARK \$5 admission

January 5 (Sat.) February 2 (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

(www.computermarketplace.com)

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

Quoted from The ARRL Letter Online
January 17, 1997 (Volume 16, Number 3)
Page author: elindquist@arrl.org
Page last revised 3:46 PM ET 1/17/97

LITTLE LEOs NARROW 2-METER FOCUS TO 146-148 MHZ

In their effort to secure spectrum space that includes the 2-meter and 70-cm ham bands, the Little LEOs have narrowed their focus on 2 meters to the 146 to 148-MHz segment. The industry also appears to be attempting to reposition itself as a potential emergency communication adjunct to ham radio.

The little LEOs will use low-Earth-orbiting satellites to provide position-location and two-way data-messaging services to potential customers around the world. Customers would use small, inexpensive transceivers to communicate with satellites. According to the FCC, potential uses of this service include emergency location in remote areas, environmental data collection, vehicle tracking, and time-sensitive business and personal data communication.

For Region 1, a draft little LEO frequency allocation table has proposed adding a primary mobile-satellite allocation of 146 to 148 MHz to the existing allocations for fixed and mobile (except aeronautical mobile [R] services). The table was contained in a working paper--Document IWG-2A/86 Rev. 3, entitled "New Allocations for the Mobile-Satellite Services Operating Below 1 GHz"--submitted by representatives of the Little LEOs industry to Informal Working Group-2A (IWG-2A) January 7.

The 146 to 148-MHz segment is not a ham band in Region 1, but in Regions 2 and 3, a footnote would be added to state: "Additional allocation: the bands 146-148 and 430-440 MHz are also allocated to the mobile-satellite service, limited to non-geostationary satellite systems, for use only during emergency communication situations as a complement to the amateur service in accordance with Resolution No. 640."

The little LEO proposal also calls for a new primary allocation for the mobile-satellite (space-to-Earth) service for 430-440 MHz in Regions 2 and 3 (ham radio is primary in Region 1), and offers this rationale. "The allocation for the mobile-satellite service within the bands allocated to the amateur service is intended to be a complement to that latter service in situations involving emergency communications as provided for the [sic] Resolution No. 640."

As currently drawn, Resolution 640 covers only the 144 to 146-MHz segment of 2 meters and does not apply at all to 70 cm.

In the 440 to 450-MHz band, where the Amateur Service is not listed in the international table of frequency allocations except by footnote (ham radio is secondary in Australia, the US, Jamaica, the Philippines, and Canada), the little LEOs proposed a new worldwide primary mobile-satellite (space-to-Earth) allocation.

Calling their service "inherently global" the little LEO group said the industry needs "frequency allocations that can be used anywhere in the world," for nongeostationary, nonvoice mobile satellite service through the year 2002. "ITU-R studies indicate sharing is possible," the industry said.

"If the demand for Little LEO spectrum cannot be satisfied by allocations that could be used on a worldwide basis, one solution is to assign different frequencies for use in the various regions of the world from within the allocations to the mobile satellite service," the working paper's preamble said.

Little LEO firms CTA, E-Sat, Final Analysis, GE Starsys, and LEO One submitted the third revision of the lengthy paper--which drew criticism from the ARRL as well as from military and land-mobile

interests and the National Telecommunications and Information Administration--at the January 7 session. The ARRL continued its objection to the inclusion of amateur bands and to the misapplication of Resolution 640. For now, Document IWG-2A/86 Rev. 3 is tabled, but it's expected to come up again at future meetings. IWG-2A meets on January 21 and February 4.

Overall, the little LEOs proposed the following bands for additional allocation to nongeostationary data-only mobile satellite service systems: 138-144, 146-148, 149.9-150.05, 150.05-156.7625, 380-387, 387-390, 390-399.9, 399.9-400.05, 400.15-401, 430-440, 440-450, 470-608 and 614-806 MHz. The paper notes there are proposals concerning 401-406 and 450-470 MHz and for feeder links at 1390-1400 and 1427-1432 MHz in other papers, and that "additional allocation proposals are under construction for the 174-230 MHz band."

For additional information on the little LEOs situation, read the editorial "It Seems to Us . . ." in by ARRL Executive Vice President David Sumner, K1ZZ, in February 1997 QST.

ANOTHER VANITY DELAY?

Callers to the FCC's Gettysburg, Pennsylvania, office are being told that it might be early March before the FCC resumes processing vanity call sign applications--including all of those received at Gettysburg since the end of November. An FCC spokeswoman this week cited unspecified "computer-related" problems for the potential delay, and said the FCC would release additional details probably next week. "We've been getting a lot of calls," she said.

No vanity applications have been processed since December 19, 1996. While working to resolve the latest problems, Gettysburg personnel will continue to whittle down the stack of some 600 vanity applications that required special handling from the December 19 vanity call sign run. The FCC spokeswoman said that most of the applications in that "work in process" or WIPS stack involve situations where the FCC was unable to grant any of the applicant's call sign requests. However, additional call sign grants have trickled out of Gettysburg as the WIPS applications have been dealt with. The FCC also is in the midst of processing several hundred refunds for earlier unsuccessful vanity filers.

The FCC has not yet announced a date for the opening of Gate 3.

HAM-ASTRONAUTS SWAP SPOTS ABOARD MIR

Ham-Astronaut Jerry Linenger, KC5HBR, has become the fourth American to occupy a position on the Russian Space Station Mir, following the docking of Atlantis to the Russian space station late Tuesday. Linenger officially traded places with fellow ham-Astronaut John Blaha, KC5TZQ, when their form-fitted Soyuz seat liners were swapped in the small spacecraft that is used for return to Earth. "We're truly in the space station business," said Blaha, who completed 118 days as a Mir crew member. Linenger will stay aboard Mir until May. Linenger also spent his 42nd birthday (January 16) aboard Mir. "I could not think of a nicer place to have my birthday," Linenger told Dave Larsen, N6CO, during a packet QSO Thursday. Over the past few days, Blaha has been helping to familiarize Linenger with his new home.

During his stay aboard Mir, permission was obtained from the FCC to permit Blaha to engage in third-party communication with unlicensed individuals on Earth. This led to a series of MIREX contacts with several schools. The last contact, on Saturday, January 11, was with pupils at Emerson Elementary School in Snohomish, Washington. The school's technical curriculum specialist Gary Evans e-mailed an enthusiastic note of gratitude to AMSAT's Vice President for Manned Space Programs Frank Bauer, KA3HDO. "It was tremendous! I wish you could have seen for yourself the faces of both the students and their parents as our contact with Mir evolved." Evans

described "an overwhelming sense of being part of a terrific, once-in-a-lifetime experience."

"Most of the parents grew up with the space program, and here it was, right there in the room with us! It was an overwhelming experience. I was not prepared at all for the emotion which this contact caused in my room Saturday morning," Evans said.

It's not known how active on ham radio Linenger expects to be during his stay aboard Mir.

Blaha recently sent a thank-you e-mail note to the SAREX Working Group (SWG) for its work in arranging school QSOs for him while he was aboard Mir. The Naval Oceanographic Office, which assisted the MIREX QSO between Blaha and the Harper McCaughn Elementary School in Diamondhead, Mississippi, is now interested in doing a program similar to SAREX. The Navy wants to use Amateur Radio to allow students to talk to Naval Oceanographic Office employees who are out on exciting expeditions. --NASA/SAREX Working Group

SOLAR SUMMARY: GEOMAGNETIC EVENT AFFECTS K INDEX

Solar Seer Tad Cook, KT7H, in Seattle, Washington reports: Average solar flux and sunspot numbers for the past week were almost unchanged from the week previous, but there was some noticeable geomagnetic activity. A coronal mass ejection from the Sun on January 6 caused a disturbance four to five days later when a magnetic plasma cloud caused a severe storm at high latitudes. The planetary K index rose as high as 6 on January 10 at 0600 and 0900 UTC. The planetary A index for the day was 31.

Over the next few weeks the solar flux should stay around the low to mid-70s, probably 72 to 74 most of the time. Some slightly unsettled conditions may appear around January 26, and again from February 3 to February 8, with some possibly unstable conditions on February 6 and 7. Expect 160 and 80 meters to yield some good conditions, with solar flux low and the nights long.

A wire service story this week said that scientists from NASA and the astronomy department at Yale University presented findings at a meeting of the American Astronomical Society in Toronto which predicted a decrease in overall solar activity for the next solar cycle. They admitted that their forecast was at odds with many other predictions, and that solar activity is highly unpredictable. But the scientists said that if their prediction is correct, it will reverse what they claim is an overall 400-year trend toward greater solar activity.

Sunspot numbers for January 9 through 15 were 12, 13, 12, 0, 0, 0 and 14, respectively, with a mean of 7.3. The 10.7-cm flux was 73.7, 75.4, 74, 74.5, 74.6, 74.9 and 75.8, respectively, with a mean of 74.7. The estimated planetary A indices for the same period were 6, 31, 13, 10, 5, 4, and 4, respectively, with a mean of 10.4.



TRW 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 TRW SPACE PARK EMPLOYEES ONLY:

Badge Number: _____ CCC: _____ Phone: _____

Mail Station: Building: _____ Room: _____

FAMILY MEMBERS OF TRW SPACE PARK EMPLOYEES AND RETIREES: *

Name: _____ Call: _____ Class: _____

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

=====

DUES:

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

TRW/ARC CLUB BADGE ORDER:

CALL

FIRST NAME

** Retirees: TRW Badge No. _____

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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"/> 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: _____ |

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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: **TRW Amateur Radio Club** and send to:

TRW 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 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., 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:** _____

TRW AMATEUR RADIO CLUB

ELECTED OFFICERS

President	Bob Briggs	KD6WYQ	R8 / 2188	(310) 813-2622
Vice President	Pat Anderson	KB6YPI	M2 / 1569	(310) 813-6874
Secretary	Nina Whiddon	KN6FL	O1 / 2070	(310) 813-9351
Treasurer	Jan Parker	KD6AKD	R4 / 2058	(310) 812-1081

APPOINTED STAFF

Activities Chairperson	Greg Martens	N6RRY	M1 / 1275	(310) 813-4049
Crosstalk Editor	Duane Park	WA6EIK	M3 / 2261BO	(310) 813-4219
Emergency Coordinator	OPEN			
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	O1 / 1210	(310) 812-2292
QSL Manager	Bryan DeAro	KN6OW	120 / 1020B	(310) 812-4789
447 Repeater Autopatch	Pat Anderson	KB6YPI	M2 / 1569	(310) 813-6874
SEA Representative	Elizabeth Twyford	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	Chris Wachs	WA2KDL	R7A / 2100	(310) 813-1506
Training Chairperson	Bryan DeAro	KN6OW	120 / 1020B	(310) 812-4789
Trustee of W6TRW License	Frank Cartier	W6FC	O1 / 1210	(310) 812-2292

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:

