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ORANGE COUNTY AMATEUR RADIO CLUB

VOL. XXVII No. 5

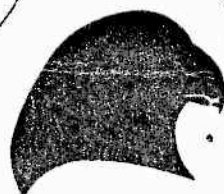
P. O. Box 1704, ORANGE, CA, 92668

MAY 1986

Is your present mobile rig power tapped on existing wiring in your car? This is a No No! Running power leads directly from the rig to the battery...Falcon's 'Power Tap' kit will permit this plus reduce voltage drop & allows proper fusing, etc.

Do you have poor audio quality on your mobile rig or HT? Combine a Falcon audio amplifier module with your speaker and be able to hear clearly. Three input mixer will allow use with multiple rigs. 6 dB gain. Requires 13.8 V. DC

Now! Falcon Amps... designed with you & "packet" in mind...full monitoring of amplifier performance...Analog sigs... On/Off sigs... Visual diode indicators... PIN heat switching... large cool operation w/ 'digi-peeper' FM op.



FALCON COMMUNICATIONS

Don't want to drill holes in the new car to mount the mobile rig? Then you might be interested in investigating Falcon's new 'Velcro Belt' kit. You will be able to install & remove your rig easily & quickly! Ask Dan about it at meeting....

And much, much more!...Dan Peters, NY6U, Falcon representative, & one of our new OCARC members, will be with us on May 16, to enlighten us on the numerous 2 meter & 220 MHz Bi-polar & MOSFET Power Amplifiers produced specifically for ham base & mobile stations!! A Ham for many years, NY6U had a military call, DL4UJ, way back in 1952...Dan will describe the 'Falcon' line and answer any questions that arise during his presentation, plus any questions generated from this program announcement! Be sure to ask Dan about other amateur products available from Falcon. And remember...Dan has promised to offer a Falcon amplifier for the Club raffle!...Be the first to win a "Field Day Falcon"!! So, new equipment lovers, THIS IS YOUR NIGHT!! See you at meeting!

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1986 CLUB BOARD of DIRECTORS

President	Frank Smith	WA6VKZ	492-7215
Vice President	Jim Talcott	N6JSV	838-5395
Secretary	Ken Konechy	W6HHC	541-6249
Treasurer	Jeanie Talcott	KB6EZS	838-5395
Activities Chairman	Kei Yamachika	W6NGO	538-8942
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Public Relations O.	Mac MacInnes	W6MIL	594-0442
T.V.I. Chairman	Al Watts	W6IBR	531-6245
Member At Large	Joe Pantlow	KB6FZV	542-3122
Member At Large	Bob Eckweiler	AF6C	639-5074

CLUB APPOINTMENTS

Club Historian	Bob Evans	WB6IXN	543-9111
W6ZE Trustee	Bob Eckweiler	AF6C	639-5074
R.F. Editor	Bob Evans	WB6IXN	543-9111
Teen Representative	<open>		

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CLUB FUNCTIONS

MONTHLY MEETING: 3rd Friday of each month, 7:30PM at:
MERCURY SAVINGS & LOAN
May 16th .095 Irvine Blvd. (4th St becomes Irvine)
Jun 20th Tustin, Ca. Talk-in on 146.55 MHz
Jul 18th (Take the 4th St. exit to the 55 FREEWAY
and head east. Continue about two blocks
past Newport Blvd. on the left.)

CLUB BREAKFAST: 1st Saturday of each month, 8:00AM at:
MIMI's CAFE
May 3rd 17231 17th Street
Tustin, Ca. (714) 544-5522
Jun 7th (55 FREEWAY at 17th Street east.)

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CLUB NETS

BAND	MODE	DAY OF WEEK	LOCAL TIME	FREQ MHz
2 Meters	FM	Wednesday	2100 hrs.	146.550
15 Meters	SSB	Wednesday	2000 hrs.	21.375
15 Meters	CW	Sunday	2000 hrs.	21.175

(Listen for W6ZE, net control)

*** AN ASTRONOMICAL VIDEO LINK ***

The members of the Orange County Astronomers are attending 2nd Friday meeting: the speaker; the break; open slides...then on the same large projection screen, a sparkly celestial image appears with digital title: "Live from the Orange County Astronomer's Observatory at Anza-Aguanga, CA." From the loudspeaker is heard, "Yes, this is your observatory & you are hearing & seeing us via Amateur Television & Radio thru the WA6SVT Repeater on Santiago Peak. Let's begin by showing you the Andromeda Galaxy." The preceding scenario is a composite of work done/work-in-progress by Amateur Astronomy & Amateur Fast-Scan television enthusiasts in So. CA. The main part of this system is a high quality fast-scan video repeater covering thousands of square miles of So. CA.

Licensed radio amateurs aim their fast-scan video cameras at the object to be transmitted. Camera sigs then modulate 434 MHz transmitters which send their sigs via antennas aimed at Santiago Peak. There, an omni-directional antenna receives the sigs, a repeater translates them to 1256 MHz, and re-radiates the 40-watt sigs in all directions. During tests, good quality signals made the round trip from OCA's hilltop observatory using a 10-watt video transmitter, a 10' long Yagi transmitting antenna, back to a 38" parabolic receiving dish with 1200 MHz to VHF converter to a TV monitor. We have line-of-sight from Anza to Santiago and from there, a fairly open shot to almost anywhere in So. CA.

Receiving sites are planned for the Tustin Boys & Girls Club where we have space allocated for the O.C.A., and at Hashinger Hall at Chapman College in Orange, where the O.C.A. meets monthly.

Other projects utilizing the communications system, such as chilled CCD cameras & enhanced & intensified imaging which use a computer CRT as output, can be relayed. The system is versatile & easy to use. Receiver sites require a 1200 MHz antenna, an antenna-mounted down-converter for channel 3, and a TV receiver. An FCC license of Tech. or higher is required for transmitter operation, but anyone can receive our sigs. Why not join in on the fun! If interested, call Bob Kneebone, N6AZV, at (213) 433-7722, or Harry Miller at (714) 637-8870. Meet Bob & Harry for an 'eyeball' at the OCA meetings every 2nd Fri. eve. of the month in Hashinger Hall at Chapman College. IXN or ULU can tell you how to get there!

*** ON THE NETS ***

Apr 2 found AF6C net control on the 21.375 net. HHC's upcoming trip was discussed by NGO, IXN & AF6C. (can't remember what else we gossiped abt)...Apr 6 CW net on 21.175 was quiet...no check-ins...Apr 9 brought on the 'BOB' net (er...I mean the 21.375 net) buzzing w/ Bob, AF6C, Bob, KD6XO, Bob, IXN, and, Oh yes!...there was Kei, NGO, & Don, OOH, on the side also. Topics of interest were HHC's club minutes, JSV's upcoming program on "UT", packet bulletins for "RF", taxes, Flacon Amps, XO's 5 horses, (one on the way), Arabian mares & gated horses. (Join us on Wed. eves. and get in on the 'goody gossip'!) Apr 13...KB6IEH, Karl, checks in on the 21.175 CW net. Halley's comet was 'cussed' and discussed, & Karl solved his RFI problem. THE GROUND LUG HAD BEEN CUT OFF HIS NEIGHBOR'S VCR!!! Grounding the VCR solved the problem! Apr 16...AF6C gently calls for check-ins...ULU & NGO responded, but alas! IXN forgot 'agin'! Then, IBR threw out the 'fishing net' on 2 mtrs & 'seined' in Bob, AF6C, & Wyatt, BPX...The Apr. 20 CW net found Kevin, IND, checking in. Kevin & his harmonics had attended a Star Party at Harvard Park, and the astronomy 'bug' bit! A new ham/astronomer has been born! Kevin & family saw mountains on the moon, rings ..(p. 4)

Minutes of the Orange County Amateur Radio Club
April General Meeting

President Frank, WA6VKZ called the meeting to order at 7:40 PM with a Pledge to the Flag.

Roll Call of Officers: all present except for Ken, W6HHC who was away on business.

Frank, WA6VKZ announced that the club bought a new 4KW generator.

Old Business: Al, W6IBR suggested that we look into an alternate site for Field Day due to stepped up security at the Tustin Base.

New Business: Bob, AF6C made a motion that a loan be made to the generator fund from the general account. The generator fund will then have a negative balance until additional contributions come in. The motion passed unanimously.

Frank, WA6VKZ brought up the possibility of purchasing 4 shirts. Joe, KB6FZV will ask his wife about where to get silk screening done.

Purchase of a black-board was discussed.

Treasurer's Report: As of the March meeting the balances were as follows: Checking = \$656.68 (includes \$387.45 in generator fund) and Savings = \$653.21.

Program: Jim, N6JSV presented a program on the history of time, including a slide show of his recent trip to Greenwich, England and the Royal Observatory.

Break: During the break Kei, W6NGO gave a demonstration of the new club generator.

Membership: Renewal - Bob WB6AJV; New Member - Ron, KB6LPH; Visitor - Dave, N7RK (former member).

Announcements: Alex, W6RE read ARRL Bulletin #22 concerning the ARRL vs FCC definition of 'Emergency'.

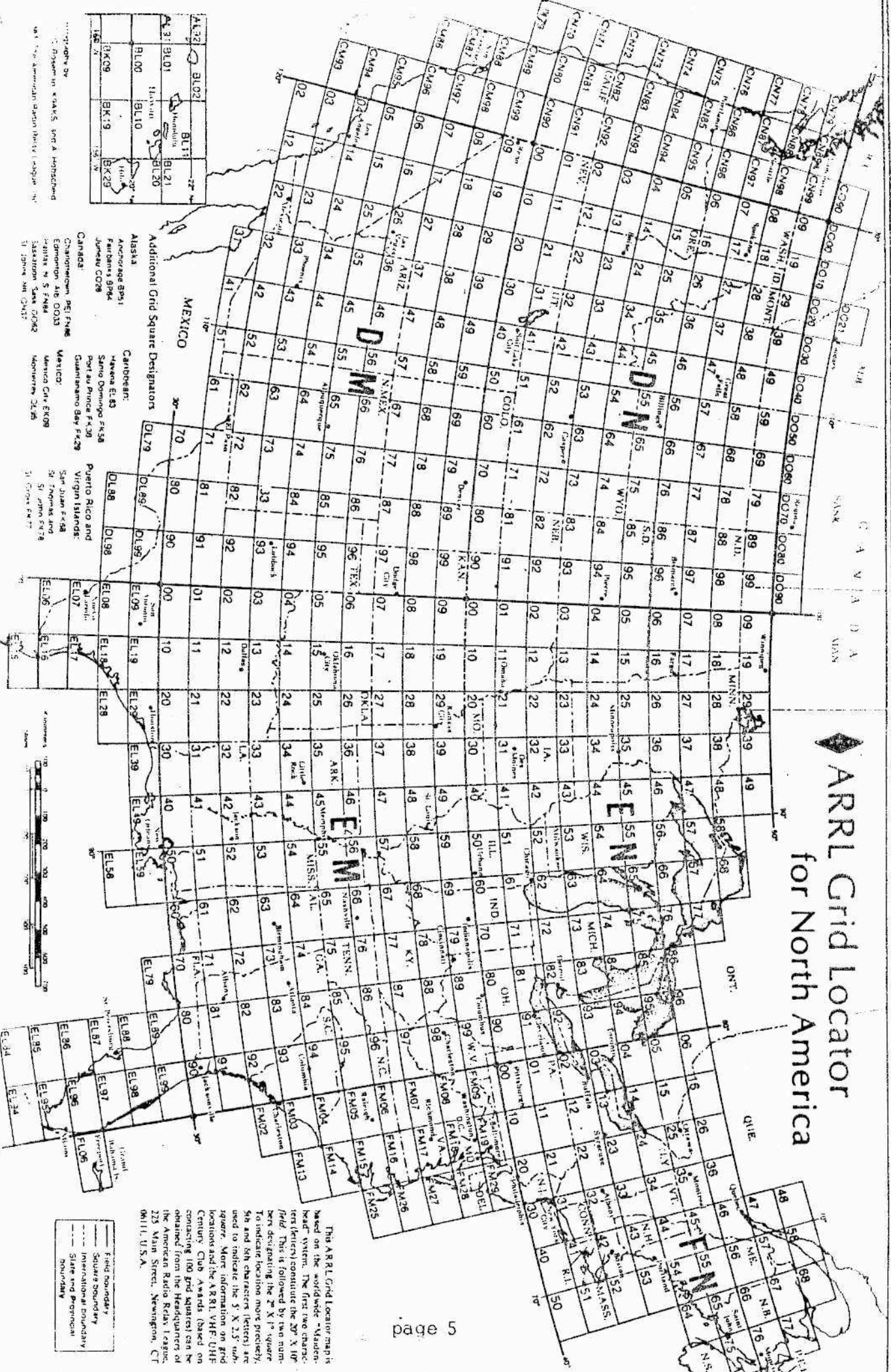
The meeting adjourned at 9:30PM.

Submitted by AF6C for W6HHC.

on The Nets (contd):

around Saturn, & resolved a double star in the handle of the Bib Dipper. On Apr. 23, only AF6C & IXN ragchewed on 21.375. Topics for discussion involved the upcoming lunar eclipse (last of this type until 1989), the computer show at SFA, Halley's comet, & daylight savings time. On Apr. 30, AF6C opened the 21.375 net while HHC, Ken, & NGO, Kei, enjoyed 'munchies' on the side! IXN joined in & we discussed the USSR Chernobyle nuclear reactor melt-down, subsequent explosion, and continued burning of the graphite core, plus the immediate effects of radioactive iodine fallout on the Ukraine. Come join us on the Club net! We can enjoy hearing about your interests, too. Let's learn from one another!!

ARRL Grid Locator for North America



AL32	BL02	BL11
AL31	BL01	BL10
BL00	BL10	BL20
BK09	BK19	BK29

ARRL Grid Square Designators
 Alaska
 Anchorage BP01
 Fairbanks SP04
 Juneau CO08

Canada:
 Charlottetown PE1FM
 Edmonton AB OD33
 Halifax NS 5F98
 Saskatoon SK OD02
 St. John's NL 0M17

Caribbean:
 Havana EI83
 Santo Domingo FK58
 Port au Prince FK36
 Guantanamo Bay FK29

Puerto Rico and
 Virgin Islands:
 San Juan FK48
 St. Thomas VG7A
 St. John VG7B
 St. Croix VG7C

Mexico:
 Mexico City EK08
 Monterrey DL48

Additional Grid Square Designators
 DL79
 DL89
 DL98
 DL99
 EL06
 EL07
 EL08
 EL09
 EL18
 EL19
 EL28
 EL29
 EL39
 EL56
 EL79
 EL88
 EL89
 EL95
 EL96
 EL97
 EL98
 EL99
 EL06

Legend:
 - Field Boundary
 - Square Boundary
 - International Boundary
 - State and Provincial Boundary

This ARRL Grid Locator map is based on the world-wide "Maidenhead" system. The first two characters (letters) constitute the 24 X 10° field. This is followed by two numbers designating the 2° X 1° square. To indicate location more precisely, 5th and 6th characters (letters) are used to indicate the 5' X 2.5' sub-square. More information on grid locations and the ARRL VHF UHF Century Club Awards (based on contacting 100 grid squares) can be obtained from the Headquarters of the American Radio Relay League, 223 Main Street, Newington, CT 06111, U.S.A.

*** 'RIFFY' ROBERT & THE TENNESSEE VALLEY INDIANS ***

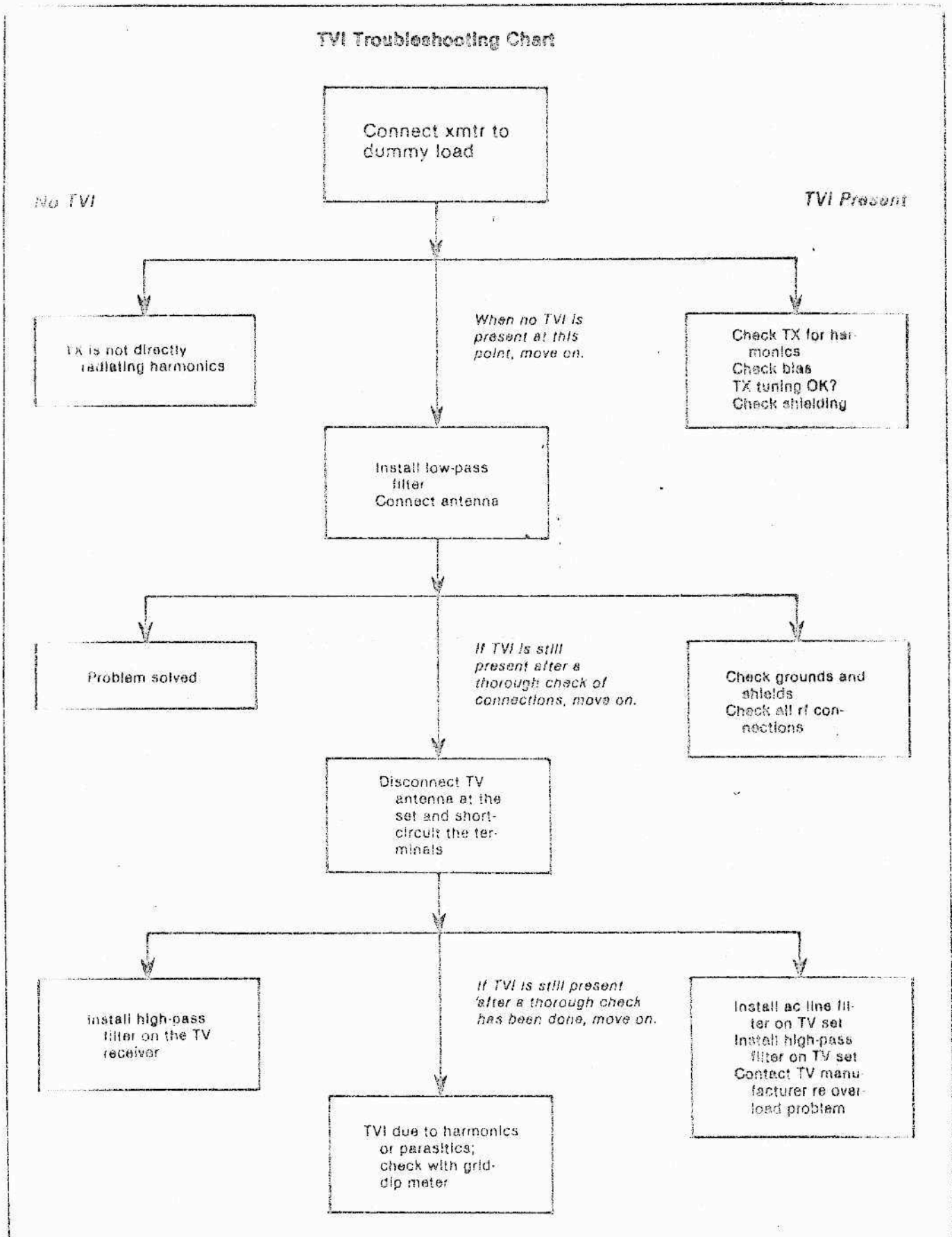


Fig. 21 - The steps to take if you're a victim — or a cause — of RFI. As explained in the text, do not make modifications to neighbors' home entertainment devices without weighing the consequences. (from ARRL "Radio Frequency Interference" booklet)

*** AT LAST MEETING ***

Dave Hollander, son of N6UC, and former club member, was a guest visitor from Arizona. Formerly WB6NRK, N7RK now works in marketing for Motorola Semiconductor. Nice to 'eyeball' wid you agn, Dave!

Haven't seen Bob, WB6AJV, at meetings for some time...but...he made it this time. And guess what?! He upgraded to Extra! Congrats, Bob! *BROTHER*

Ron Toering, KB6EZP, enrolled in the ranks! Ron is the Δ of Al Toering, KA6HJ. Glad to have you with us, Ron, and be sure to join us for Field Day festivities!

N6UC says that former club member, Dave Yap, WA6TSU/KH6BAN is still living in Orange County. Also, former club member, Bud Barkhurst, WA6VPP, owns the "Orange Appliance" stores; one located across from K-MART on Tustin Ave. Rumor has it that Bud wants to retire.

I just recently talked with oldtimer, Frank O'Leary, WB6TBU. Frank hasn't been at meetings for sometime, since he developed heart problems and emphysema! Frank will be joining us on the 21.375 net on Wed. eves., so check in and say 'HI' to Frank! (de 1XN)

* * *

FROM THE OLD TIMER...One advantage of being an old timer is that you get to meet a much larger group of people than a youngster has yet been able to. And, in the process of meeting all these people, by the laws of statistics, you get to meet some really interesting ones (Occasionally, I call them weird. You know, only one bar in the water - only at the same time amazingly brilliant!) I have a friend something like that, who recently told me about the Astounding Break-through he had just made. Don't know how, since he can't break through a paper bag. But anyway, I've got to tell you about this one. He figured that, whereas, when you pay the water bill, you get to keep and consume th water. When you buy fuel oil for your furnace, you burn it and don't have to send it back. But, when you pay your electric bill, you are paying for something (electrons) that the power company only lets you use for a tiny instant and you have to send them back. What comes in the hot wire goes back in the neutral wire. So, where's your gain? Well, my friend had read a lot of solid state physics books, so he worked hard and designed a filter to send back the electrons to the power company before going through the meter, leaving only the "holes" or spaces between the electrons to enter his house wiring.

Don't laugh! Any respectable solid-state physicist will confirm the fact that current is conducted both by electrons and "holes". Since the electrons didn't enter the meter, his electric bill dropped to zero. He was delighted. Only a couple of slight inconveniences have occurred. Due to the reversal of "holes" for electrons he found he was heating his house with the refrigerator and had to keep his food in the furnace. Also, he found he was transmitting on his receiver and receiving on his transmitter. This was ok but the most disconcerting effect was the instant darkening of the room when he turned the lights on! And vice versa. He told me that after awhile, he got used to these unusual conditions, but he confided in me, almost with a sob, that now... when he sends CW he can send only the spaces between the dots and dashes, and nobody will come back to him when he calls CQ. (tnx RAGS REVIEW via ARNS and LERC.)

& Tnx also to NARC Newsette!!

Pennsylvania Consolidated Statutes Title 75 "Vehicles": According to this law, no one may operate a motor vehicle while wearing 'one or more' headphones. PA House Bill 2256 has been introduced to rectify this situation for amateurs to use a mike/headset. We must watch this one closely, for PA must not be allowed to set precedent for other states' future use! (TNX, Key Clicks)

FOR SALE:

Ham gear from the estate of George Schroeder, W6ZHD:

TS-930-S wid automatic antenna tuner.

TR-7400 2 meter rig.

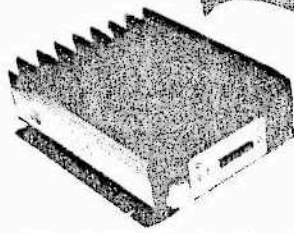
Tri-band Cushcraft 10-15-20 mtr. Beam.

ARX-2 2 meter antenna.

Call our Frank O'Leary, WB6TBU, for further info. at 539-1769. (714 Area Code)








Falcon Communications, Well Known for MOSFET Repeater Power Amplifiers, Also Makes A Hard Working Line of Bipolar Power Amplifiers For Mobile Use. Our 2 Meter Mobile Amplifiers include:

Model 5121	2 Watts in = 150 out 1 Watt in = 90 out	List \$285
Model 5122	10 Watts in = 150 out 2 Watts in = 50 out	List \$275
Model 5123	30 Watts in = 150 out 10 Watts in = 90 out	List \$235
Model 6126	10 Watts in = 75 out 2 Watts in = 30 out	List \$170
Model 4109	plug in receive pre-amp 12 db gain 2 db noise figure	List \$36

A FEW FEATURES:

1) Made in the USA	4) Automatic COR or remote keying
2) All mode (FM, SSB, CW)	5) Built in thermal protection
3) Optional plug-in receive preamp	6) Full 1 Year warranty

For Information On Our Complete Line See Your Local Dealer Or Call Factory Direct

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