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

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!
1986 CLUB BOARD of DIRECTORS

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CLUB APPOINTMENTS

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W6ZE Trustee     Bob Eckweiler  AF6C    639-5074
R.F. Editor      Bob Evans      WB6IXN    543-9111
Teen Representative (open)

CLUB FUNCTIONS

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

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.)

CLUB NETS

<table>
<thead>
<tr>
<th>BAND</th>
<th>MODE</th>
<th>DAY OF WEEK</th>
<th>LOCAL TIME</th>
<th>FREQ MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Meters</td>
<td>FM</td>
<td>Wednesday</td>
<td>2100 hrs.</td>
<td>146.550</td>
</tr>
<tr>
<td>15 Meters</td>
<td>SSB</td>
<td>Wednesday</td>
<td>2000 hrs.</td>
<td>21.375</td>
</tr>
<tr>
<td>15 Meters</td>
<td>CW</td>
<td>Sunday</td>
<td>2000 hrs.</td>
<td>21.175</td>
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</tbody>
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(Listen for W6ZE, net control)
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 WASVT 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. The, 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 xmitter operation, but anyone can receive our sigs.

Why not join in on the fun? If interested, call Bob Kneebone, N6AVZ, 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 wid' 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, Placon Amps, XO's 5 horses, (one on the way), Arabian mares & gated horses. (Join us on Wed. evens. 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 called for check-ins...ULU & NGO responded, but alas! IXN forgot 'again'! Then, IBR threw out the 'fishing net' on 2 mtrs & 'seined' in Bob, AF6C, & Wyatt, BFX...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...
Minutes of the Orange County Amateur Radio Club
April General Meeting

President Frank, WA6UKZ called the meeting to order at 7:40 PM with a Pledge to the Flag.

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

Frank, WA6UKZ announced that the club bought a new 4KW generator.

Business: Al, W6BR suggested that we look into an alternate site for Field Day due to stepped up security at the Twin Lakes 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, WA6UKZ brought up the possibility of purchasing t-shirts. Joe, KB6FZU will ask his wife about where to get this screen printing done.

Purchase of a black-board was discussed.

Treasurer's Report: As of the March meeting the balances were as follows: Checking = $656.60 (includes $387.45 in generator fund) and Savings = $653.21.

Program: Jim, N6JSU 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 Ken, W6NGO gave a demonstration of the new club generator.

Membership: Renewal - Bob W6AJV; New Member - Ron, KB6LZT; 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.

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The Nets (contd.):
Around Saturn, 6 resolved a double star in the handle of the Big Dipper. On Apr. 23, only AF6C & DKN munched on 21.375. Topics for discussion involved the upcoming lunar eclipse (last of this type until 1989), the computer show at U.A.C., Halley's comet, & daylight savings time. On Apr. 30, AF6C opened the 21.375 while HHC, Ken, & NGO, Ken, enjoyed 'munchies' on the side! IXH joined in & we discussed the USSR Chernobyl 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 enjoy hearing about your interests, too. Let's learn from one another!!
TVI Troubleshooting Chart

No TVI

Connect xmt to dummy load

TVI Present

When no TVI is present at this point, move on.

Check TX for harmonics
Check bias
TX tuning OK?
Check shielding

Install low-pass filter
Connect antenna

Disconnect TV antenna at the set and short-circuit the terminals

Problem solved

IF TVI is still present after a thorough check of connections, move on.

Check grounds and shields
Check all rf connections

Install high-pass filter on the TV set

IF TVI is still present after a thorough check has been done, move on.

TVI due to harmonics or parasites; check with grid-dip meter

Install ac line filter on TV set
Install high-pass filter on TV set Contact TV manufacturer re over-load problem

(frm ARRL "Radio Frequency Interference" booklet)
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 "sheball" wid you agn, Dave!

I 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, ascended in the ranks! Ron is the #1 of Al Toering, KA6JH. Glad to have you with us, Ron, and be sure to join us for Field Day festivities!

N60U says that former club member, Dave Yap, WA6TSU/KH6AN 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! (dx IXN)

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 younger 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. Fortunately, I call them weird. You know, only one car 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 the 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 also to NARC Newsetter!!

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, W6ZH:
TS-930-S wid automatic antenna tuner.
TR-7400 2 meter rig.
Beam.
ARX-2 2 meter antenna.

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

Deadline next "RF" Friday June 6.