

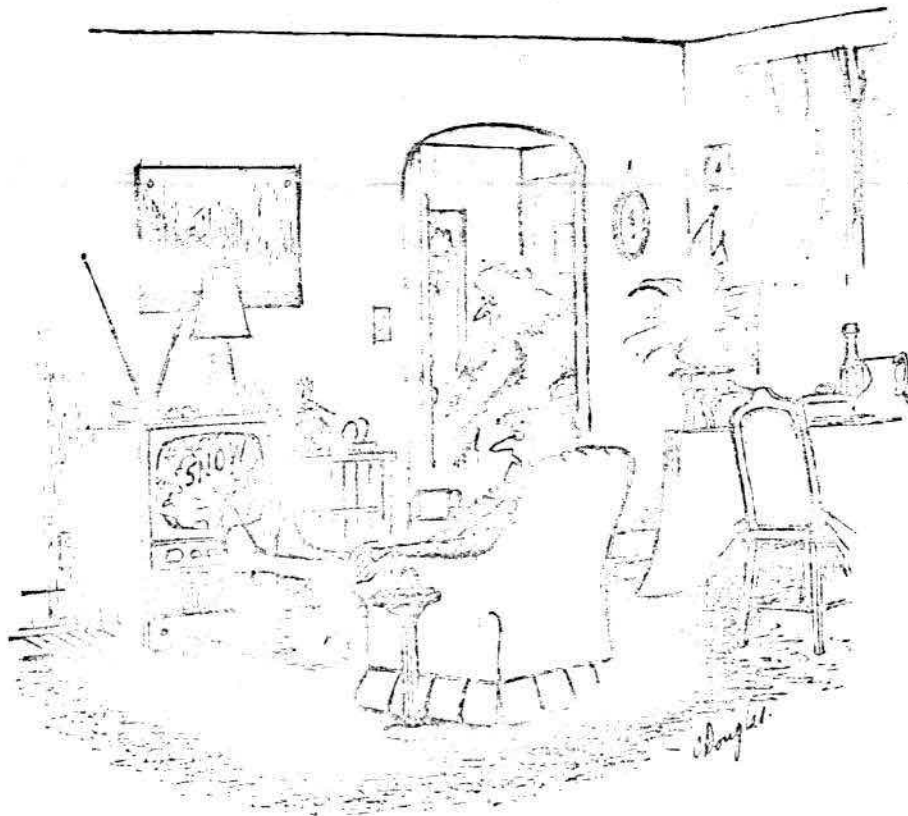


ORANGE COUNTY AMATEUR RADIO CLUB

VOL XIV NO.4

P.O. BOX 95, ORANGE, CALIF. 92668

APRIL 1973



Martha, that HAM next door must be on the air again. All I can get is snow on the TV!

ORANGE COUNTY AMATEUR RADIO CLUB

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1973 CLUB OFFICERS

|            |                |        |          |
|------------|----------------|--------|----------|
| PRESIDENT  | BOB ECKWEILER  | WB6QNU | 639-5074 |
| V. PRES.   | KEN KONECKY    | W6HHC  | 541-6249 |
| SECRETARY  | JACK BRIGGS    | WB6YMV | 544-3665 |
| TREASURER  | TED GLICK      | K6LJA  | 542-1390 |
| ACTIVITY   | ERNIE FUERTE   | WA6GXV | 839-7107 |
| TVI        | DAVE HOLLANDER | W6COJ  | 541-9133 |
| MEMBERSHIP | BILL ROBINSON  | WB6WOO | 542-7958 |
| PUBLIC REL | JACK SHAW      | W6YWN  | 633-8742 |
| M.A.L.     | RON CADE       | WA6FIT | 897-8059 |
|            | KEI YAMACHIKA  | W6NGO  | 538-8942 |

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|--------|----------|-------|----------|
| EDITOR | DON KLOS | W6OOH | 832-9682 |
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OCARC ACTIVITIES

MEETING 3rd Friday of each month, 7:30 PM at;  
 Mercury Savings and Loan  
 1095 Irvine Blvd (4th Avenue)  
 Tustin, Calif.

GUESTS ARE ALWAYS WELCOME

BREAKFAST 1st Saturday of each month, 8:30 AM at;  
 Mannys Restaurant  
 17th Street at the Newport Freeway  
 Santa Ana, Calif.

MEETS IN BACK OF ROOM

15M NET Club station W6ZE meets every Thursday  
 at 8:00 PM on 21.375 MHz. All amateurs  
 are welcome to check in. Club and ARRL  
 bulletins read.

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CALLBOOK SERVICE

The club has copies of the latest callbooks which are available at each meeting. Also, you can contact Ernie, WA6GXV on Tuesday and Thursday Evenings between 7:00 PM and 9:00 PM if you need addresses. If you have more than one call for Ernie to check, he'll get them all and call you back that same night.

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THE PREZ SEZ

The Orange County Amateur Radio Club is now the sponser of a Little League baseball team thanks to the generosity of Wyatt, WA6BPX. In the near future we will have to go 'en mass' to support our team; perhaps after our first of the month breakfast. My best wishes to the Yankees

Dues are now past due. Lets show our support of OCARC by getting your dues paid up. Those who are not paid by the week after the April meeting will be removed from the 'RF' mailing list, lose their voting rights and not be included in the '73 membership roster. (If your name does not appear on the list below, see Ted K6LJA at the next meeting-Ed.).

If you've been putting off paying your dues don't wait any longer. This years club has a lot to offer. We hope to make this Field Day the best ever and offer a large variety of programs. Don't miss the Facsimile demonstration this month.

And, while your at the meeting be sure and get your raffle ticket for the \$150 cash or Heath 2 Meter transceiver prize to be given away at the annual Christmas party. You need not be present to win. If you desire arrangements can be made to pay up your dues for many years in advance, hi. See all of you at the meeting

73, 'QNU

The following is the treasurers latest list of paid members for 1973. If your name does not appear, see Ted at the meeting

- |                   |              |
|-------------------|--------------|
| F. O'LEARY        | B. ROBINSON  |
| A. VAN CAMPERNOLE | M. RAYMOND   |
| S. GODA           | P. SHERIDAN  |
| J. BRIGGS         | J. BUCK      |
| K. YAMACHIKA      | H. BARTLETT  |
| M. BITTNER        | P. TAYLOR    |
| S. MILLER         | L. SPARKS    |
| E. DUBENDOFER     | B. EVANS     |
| H. RICHARDS       | B. ECKWEILER |
| D. KLOS           | E. FUERTE    |
| K. KONECHY        | O. COLONNA   |
| L. HART           | A. SHELDON   |
| D. HOLLANDER      | W. CUTSHALL  |
| C. YOUNGQUIST     | G. SHEPARD   |
| T. GLICK          | G. SCHRODER  |
| R. CADE           | W. BERRY     |

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OCARC BOARD MEETING MINUTES 10APRIL1973

The Board met at Bob Eckweiler's residence. Club officers absent were Dave Hollender, TVI; Bill Robinson, Membership; and Ron Cade, M.A.L.

Pres Bob Eckweiler called the meeting to order at 812P.

Discussion and action items were:

1. Posters to advertize OCARC meeting time and place--Bob Eckweiler will follow up.
2. Raffle status: \$28 ticket sales to date.
3. Membership status: many 1973 dues payments are tardy--it is getting late. Membership list to be published next month will include listing of paid-up members.
4. Baseball Team: Wyatt Berry WA6BPX has a little league baseball team going with OCARC named Sponsors. Score of the first game last Saturday is unreported.
5. Field Day: Site will be Marine Corps Air Station (Helicopter) by the MARS station near the Myford entry gate. Club will provide tents, food. Jim Keller WB6YXY has volunteered to be team Captain 80 or 40 meters--we hope 40.
6. Activity: Ernie Fuerte, Activity Chairman, is organizing a fishing trip for the Membership; can accommodate 15 or 20 persons--see Ernie for details.
7. TVI coordination: Bob Eckweiler outlined a potential proposition to coordinate TVI activity for both HAM and CB with emphasis on trouble shooting capabilities amongst the Orange County Council of Radio Clubs.
8. DXpedition: Bob Eckweiler noted a DXpedition announcement he received from Belgium: Corsica Island, June 16 to July 3. see Bob for more Info.
9. Summer Picnic: Jack Shaw and Ted Glick are appointed to Chair and Vice Chair a Summer Picnic Planning Committee.
10. Items from the floor:
  - a. Ted Glick expressed that it is time to start a one year planning effort to setup a 220MHz club repeater.
  - b. Ernie Fuerte and W6USF are planning a high mountain portable operation for August.

Meeting adjourned 924P. WB6YMV, Secty.

ORANGE COUNTY AMATEUR RADIO CLUB

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DX CLOUMN

As the sunspot cycle reaches its lowest point, conditions on the 20, 15 and 10 bands are not very good, however openings do occur and just the other day a UK9ALL was 5x9+ in California. DX on the lower bands, 80 and 40, are getting better when static and broadcasting stations are not interfering. Let us know what you hear!

Corsica Island DX-pedition. Last year I worked F0WV/FC, a DX-pedition on Corsica. ON4TJ, one of the operators has since become a friend and pen pal. He reports he's involved in another DX-pedition this year. Here is the info he wants me to pass along.

DATE: June 16 thru July 3

They will be running an HW-32 and a 3 element beam on 20 and possibly an HW-101 on 15 and 40 with a W3DZZ antenna. More data on this next month.

good DXing

Bob 'QNU

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LITTLE LEAGUE

Wyatt Berry WA6BPX, is sponseing a Little League baseball team this year in the name of the Orange County Amateur Radio Club. Our 'Yankees' play every Saturday at the Warner School in Westminster at 1:00 PM. The school is located at Newland and 15th.

Lets support this fine group of boys by attending as many of their games as possible.

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FOR SALE: Swan station consisting of a 500CX, 117XC, 14C and VX-2. \$575 Art, WA6LHB 832-9676

WANTED: Vacuum tube UV-199 (RCA)  
Schematic for a DX-35 and Hallicrafters Super Skyrider rcvr. Don, W600H 832-9682 (after 7:00PM)

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DID YOU KNOW:

.....Ozzie, WB6PEW, was first licensed in 1920 as 1PBF

.....Jack, WB6UDC, received his 5BDXCC

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MINUTES OCARC MEMBERSHIP MEETING MARCH 16, 1973

Pres Bob Eckweiler WB6QNU called the meeting to order at 7:42P. V. Pres. Ken Konecky W6HHC and Dave Hollander W6COJ were the absent board members.

Treas. Ted Glick K6LJA reported:

- 1) that the club books are open for audit;
- 2) checking account balance: \$221.64
- petty cash balance: 25.00
- savings balance unchanged: 429.25

Pres. Eckweiler then introduced Luther Monell, W6QGV, who then presented a very interesting and absorbing illustrated talk: Introducing the electromagnetic frequency spectrum .01 HZ through  $10^{13}$ GHZ, how it is produced, and its energy-frequency effects, atomic, terrestrial, and cosmic.

After Luther's presentation and question answering interval, Pres. Eckweiler announced that the next meeting subject will be TWO METER FAX -- and we should bring some "old stuff" for show and tell.

The meeting was adjourned to refreshments and the drawing at 9P.

J. Briggs WB6YMV, secty.

2-Meter Transistors for Use in Mobile Equipment

Three new low-voltage transistors for 2-meter mobile applications have been announced by the RCA Solid State Division. The RCA 40972, 40973 and 40974 deliver 2, 10 and 25 Watts respectively at 175 MHz with a 12.5 VDC supply. The 40972 is supplied in a TO-39 package while the '73 and '74 use the RCA HF-44 stripline package. Each high-power 40974 transistor is load-tested at infinite VSWR. These devices are designed for use in VHF mobile transmitters and high-power class C amplifiers...perfect for 2-meter FM.

The '72, '73 and '74 are priced at \$2.40, \$6.00 and \$12.00 respectively at the 100 unit level. Further information on these devices can be obtained from RCA Solid State Division, Box 3200, Somerville, N.J. Telephone (201) 722-3200 Ext. 2561

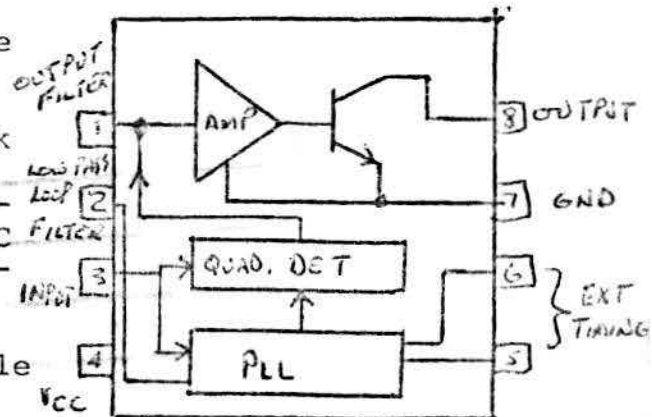
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An increasing number of amateurs are using phase-locked loop circuits in home-brew construction projects particularly in FM receivers, frequency synthesizers, signal generators, and other equipment. Therefore it is probably timely to describe a new phase-locked loop system that was recently introduced by Exar, and which certainly is within the budget allowances of any amateur.

The XR-567 monolithic phase-locked loop system is designed for general purpose tone and frequency decoding. It operates over a 0.01-Hz to 500-kHz band and has a logic-compatible output which sinks up to 100 mA of load current. The center frequency stability rated at a 25°C case temperature is 35 ppm/°C. Bandwidth is adjustable from 0 to 14 percent and the PLL circuit is designed to reject out-of-band signals and noise. The frequency range is adjustable over a 20:1 range by a single external resistor.

The XR-567 is a single frequency selective tone decoder system based on the PLL principle. The system is comprised of a PLL, a quadrature AM detector, a voltage comparator and an output logic driver. The four sections are internally connected as shown in the illustration.

When an input tone is present within the passband of the circuit, the PLL synchronizes or locks on the input signal. The quadrature detector serves as a lock indicator; when the PLL is locked on an input signal, the DC voltage at the output of the detector is shifted. This DC level shift is then converted to an output logic pulse by the amplifier and logic driver. The logic driver is a 'bare collector' transistor stage capable of switching 100-mA loads.



The logic output is normally in a 'high' state until a tone that is within the capture range of the decoder is present at the input. When the decoder is locked on an input signal the logic output goes to a 'low' state.

The center frequency of the detector is set by the free-running frequency of the current-controlled oscillator in the PLL. This free-running frequency is determined by the selection of an external resistor and capacitor. The detection bandwidth is determined by the size of the PLL filter capacitor, and the output response speed is controlled by an output filter capacitor.

Other applications for the XR-567 include dual-time-constant tone decoding, narrow-band FM demodulator with carrier detection, dual-tone decoding and FSK decoding. The XR-567 is available in an eight-pin TO-99 metal can for \$7.25 each (temp range -55°C to +125°C) and for \$4.95 each (temp range 0°C TO 70°C) in an eight-pin DIP package.

Information; Exar Integrated Systems Inc., 750 Palomar, Sunnyvale, CA

APRIL PROGRAM

LIVE FACSIMILE

FACSIMILE is fast becoming popular on the two meter band since Western Union released machines as surplus. At a modest cost (under \$15) you can convert one of these machines to send and receive pictures with your 2-meter AM rig.

This month Ted, K6LJA will talk about and demonstrate facsimile at the meeting (with help from the local FAX gang). If you have FAX equipment ready to go, look for the boys on 145.52 every Tuesday evening. We could tell you more here but Ted will be telling it all at the meeting. Don't miss this meeting.....IT WILL BE INTERESTING!

FRIDAY APRIL 20, 1973 AT 7:30

ORANGE COUNTY AMATEUR RADIO CLUB  
P.O. BOX 95  
ORANGE, CALIFORNIA 92669

VOLUME XIV NO. 4 APRIL 1973

FIRST CLASS.....

DATED MATERIAL.....

