



Introduction of table-top HF transceivers with automatic antenna tuners, shirt-pocket synthesized HT's, and license manuals that provide all of the questions and answers. In some ways, I think, it's rather unfortunate to get into the hobby now, and to have missed some of what it was like right after WWII.

To get licensed, it was necessary to appear at the FCC office, and take a test not too dissimilar to the ones we have today. The only difference was that we didn't get to read the questions and answers. We just had to study and hope we studied the right material.

When I was a Novice in 1952, I had a one-tube 25-watt crystal-controlled CW transmitter. I had to tune it by dipping the plate current, increase the loading and re-dipping the plate current until it was at just the right power level. Then, when I called CQ, I had to scour the band to see if someone was calling me. Establishing contact was really an exercise in both patience and persistence.

My first "real" transmitter was a Johnson Viking I (a kit which I built on the kitchen table). It was a 100-watt 5-band AM transmitter which weighed a ton. I've forgotten exactly how many knobs it had, but there were a lot of them, and in order to tune it, I had to tune about a half dozen knobs ... plus the VFO and the antenna tuner!

And, going mobile on 10M was a real undertaking since you needed a high voltage source. Surplus motor-generators provided 500 volts for the plate supply, and it went under the hood ... with some design time and mechanical effort. Oh yes, there were separate transmitters and receivers too. My receivers were just the RF stages and used the automobile radio as the IF and audio stages. And, changing cars was something that was a big, big deal!

Many hams are unhappy because they don't have the latest radio with all the bells and whistles. Perhaps, they were just born too soon. de W6TKV

#### THOUGHTS FOR THE MONTH-

One reason a dog has so many friends is that wags his tail instead of his tongue.

A study of mankind may lead one to believe that God is still experimenting with creation.

An egotist is a person who thinks that if he hadn't been born, people would ask why.

#### THE OCTOBER MEETING-

The program was put on by Lynnette and Roger Allison who own Allison's Foreign Car Parts in Corona. The subject was Pro Rally Sports Car racing. They explained the signs, timing, safety, racing competition, old and new vehicles, and the part Amateur Radio can and does play in the races. There will be a Pro Rally at Indio on December 8 and 9, day and night. There is a need for about 28 radio locations to be filled. There will be a free-to-hams participating barbecue. Check with Fred or our new EC, Jack Halem, KA6DLX. The Pro Rally activity can be embarked upon for a small or a LARGE investment- talk to the Allison's.

The Hemet Fair on October 10th (for our participation) was discussed. There will be two shifts: 3-7PM and 7-10PM.

There was talk of a new Novice Class. The lack of activity on the Wednesday CW Net was mentioned- unfortunately, it takes at least two (2) to make a net. I was the only one on the night of 3 October. The Miles-per-watt Contest was hotly debated. Fred, W6TKV, claimed 1479 MPW with a SSB contact on 20M with a PAO. This was rather quickly overwhelmed with a claim from Dick, AF6F, of 5000 MPW by a Japanese contact using only one (1) watt, not to mention the 1/3 watt contact with Santa Fe for 2000 MPW. Then, Luis, KP4DX, announced several contacts chalking up 6,089 MPW, 16,156 MPW, and the winner 23,000 MPW- a contact with UW4HM, USSR with 0.3 watt. Ed, KB6DOL, entered into the spirit of the debate with a claim of a long-path contact using 100mw on 26.095 MHz with his next door neighbor for a score of 250,000 MPW. His claim was denied for being out of band. Should have mentioned my EME contact on 220MHz... oh well...

The WAS for teens is now open to the new Novices- and the California QSO Contest was the week end of October 6, 7. Wonder if we will have some competition for Guri, WP4IER??

The Club Repeater was discussed. This is going to be a 1 to 2 year project. It was suggested we try the repeater at 145.32(-) with a PL of 110.9 as this belongs to a friend of Jack-KA6DLX and is seldom used. This is the same as the TRW repeater with a

different PL and a different area of coverage. The idea of a Club Repeater was favorably received and there will be projects a plenty if you would like to get involved- many hands...you know.

The drawings: KC6GTI was first out of the envelope for the club prize of a 15 WPM code tape- just what he needs for the General test. KB6DOL won the "helping hand" device which holds 'it' for soldering.

An auditing committee of Luis-KP4DX, Jack-KA6DLX, and Lynnette-KC6EQB was appointed to audit the treasurers books now that we have a new full time treasurer again. Meeting adjourned at 9:26 PM.

#### BOARD MEETING NOTES-

The Treasurer's report showed a current balance of \$788.45.

Committees for the various tasks involved to put together a club repeater have been selected but had not been notified and confirmed at the time of the Board meeting. A replacement editor for the newsletter has not been found. Lynnette Allison volunteered to use her computer to put the text together if someone would feed her the input. (How about it? Can we piecemeal the task: Inputs, Copy ready for printing, Delivery and pickup from printer, Mailing labels ready, Fold-Spindle-Mutilate, Mail and deliver to library etc.-Ed.)

The Monday night net was discussed and it was proposed to add to the roll call a swapmeet session and a ARRL bulletin and events session. This would provide a little more incentive to check into the net.

The Hemet Farmers Fair was discussed- see item below.

The Club has provided a public service to The Peppermint Ridge on at least two former occasions. This is in the form of a "Talk To Santa" program. 'Santa' is at home listening to 2 meters and about five or six club members are at the Ridge interviewing the Ridge members- letting them talk to Santa. I went last time and found the experience very rewarding. Luis Diaz, KP4DX, has been appointed Chairman to check with the Ridge to confirm a date, etc. A tentative date of 5 December has been set. More details will be announced on the Monday Net. Volunteers to participate in the event so far are NF6Y, AF6F, KB6GNZ, N6MWH, and of course, Santa, KJ6B. Anyone who would like to participate is welcome. Just let Luis know. The more the merrier.

A new club contest was devised- see elsewhere

in the newsletter.

The task of "CLUB INVENTORY" was deleted from the club officers as that is rightfully a Treasurer's job.

A HW-101 has been donated to the club to be loaned to a club member. This is a very nice HF transceiver, and is intended to get a ham on the air NOW while he/she is trying to decide on a purchase.

#### YOUTH W.A.S. TROPHY-

We are trying to award a Youth WAS (Worked All States) Trophy. (See the December or January issue of THE COMMUNICATOR.) If there are no winners before January 1, 1991, the award will be cancelled. Two months to go...

#### CNARC BREAKFAST-

At the monthly breakfast on October 3rd Fred-W6TKV, Dick-N6XUC, John-NF6Y, and Jack-KA6DLX discussed power, swap meet, coax, editor, SWR, RF shielding for ignition noise, Hemet Fair, Yaesu 411, CB, planning ahead-running out of gas, pensions for public office-multiple ones, the unused repeater at 145.32MHz, all those who weren't there ... Anyway, come join us, November 7, 0800, Hunny's. PS: I have just learned from experts at Michigan State University Department of Food Service and Human Nutrition that your body doesn't distinguish between traditional foods and off-the-wall breakfasts. Cold pizza and even spaghetti make a fine morning meal.

#### T-HUNT RESULTS-

Visitors are always welcome to participate or just to ride along as observers or critics...you need NO equipment!!

This month's T-hunt was held on Saturday, October 20th with John, N6SBU hiding. The hunters were John-NF6Y with Ryan-KC6NZU, and Fred-W6TKV. Well, the initial signal was too weak to get a signal strength indication so we went by null- lack of audio- and audio strength. Ryan and I pretty much duplicated the course of Fred from the church west on Ontario to Lincoln. Fred continued on Ontario and Ryan and I turned north on Lincoln. About an hour later and about 7 miles further west, Ryan and I were at the top of a hill between two housing tracts in SW Corona when Fred wheeled up, said HI and rolled on down the hill to where John was parked next to a chain link fence across the street deep in the canyon between the

two tracts. I didn't recognize John at first and the signal, though VERY strong did seem to be coming from the western tract. Since Fred didn't come back we decided to investigate. Fred had 16 elapsed miles, Ryan and I had 10! Ryan and I will hide on 17 November- the next T-Hunt. We went to lunch about 12:00. Visitor hunters as well as ride-alongs are always welcome. Next hunt starts at 1000, November 17th from St. John's Episcopal Church Parking Lot in Corona. We will use 146.82 instead of 146.535 for coordinating. Have Snotty beam you onto the premises!

#### CIRCLE CITY COMMUNICATOR DEADLINE-

The target date is the Sunday, a week before the regularly scheduled club meeting. November 25 is the next deadline. Copy for the Circle City Communicator may be sent to: John B. Miller, NF6Y, 775 7th St., Norco, CA 91760, or to: NF6Y @ KD7XG-1, via packet, 145.05 MHz. The next issue will be the last one with NF6Y as Editor.

#### CLUB BADGES AND JACKETS-

Club badges may be ordered at any time at a cost of \$4.00 with your order (or \$5.00 upon delivery). Club jackets are available at an approximate cost of \$30.00, however, we have to order at least 10 jackets at a time. This is the lined nylon jacket with club lettering on the back and your first name and call on the left breast. Sizes S, M, L, XL. Anyone interested should speak up at the next meeting and we'll start a new list.

If you want to have a CNARC jacket, be sure to place your order. They are \$30. (payable with your order). If you can't make the next meeting, then mail the order form to CNARC along with your check.

#### NOVEMBER BIRTHDAY-

There is only ONE (1) known member of CNARC with a birthday in November: Ed Greany-KB6DOL. A very Happy Birthday to you Ed, and many more to come.

#### CNARC CW NET...STILL FORMING

We have established a 'club frequency' of 28.290MHz. Listen in, call "CN de (call)". A more structured net will be held on this frequency at 2000 hours on Wednesdays. Listen in, put your oar (paddle?) in, and have a go-you'll be among friends. Don't give up after twenty tries, be persistent, it's starting to go. (Not sure where... Really, needs some help!)

#### HEMET FAIR-

The Lee DeForest Amateur Radio Club of Hemet had a booth at the Hemet Farmers Fair again this year and wanted our help in staffing it. The Fair ran from October 5 to 14. CNARC volunteered to take 10 October, 3PM to 7PM and 7PM to 10PM- the same as last year. The 10th was a Wednesday. It was lots of fun just like last year. Fred-W6TKV, Dick-N6XUC, and John-NF6Y took the 3-7 shift, and Rich-N6TAX, and Jack-KA6DLX volunteered for the 7-10 shift. They had a Packet station and a CW Demo to show the public how easy code is. 'Send your name in code! FREE!' While I was manning that part of the booth a couple approached and I invited them to send a message FREE-- or even send their name in Morse code and earn a certificate. The man sat down and took the key and sent R O B E R T. Fortunately, his code was good and not too fast; I put out my hand and said, "Glad to meet you Robert, my name is John!" I offered to make out a certificate but he declined- his wife, however, said "Sure, he wants one!" so, naturally, I complied. I think he was pleased. We got free parking and free admittance. It's fun to watch the people.

#### WANTED-NO, NEEDED!

New Editor for The Circle City Communicator. To start in January of 1991.

#### THE CLUB CATALOG

We have a collection of current catalogs and brochures on many different ham radio products. W6TKV just completed an index and says it fills four pages. They are available at every club meeting for your paper evaluation of that new rig.

#### CHRISTMAS SONG TITLES

With the Christmas season just around the corner, it is only appropriate to suggest some Christmas music. These are song title 'alternates' for you to decipher. Numbers one through seven were in last month's CCC. Here are seven more:

8. The Christmas Preceding All Others.
9. Small Municipality in Judea Southeast of Jerusalem.
10. Diminutive Masculine Master of Skin-covered Percussionistic Cylinders.
11. Omnipotent Supreme Being Who Elicits Respite to Ecstatic Distinguished Male.
12. Tranquility Upon the Terrestrial Sphere. (A phrase, not a song.)

13. Obese Personification Fabricated of Compressed Mounds of Minute Crystals.

14. Expectation of Arrival to Populated Area by Mythical, Masculine Perennial Gift-giver. I have twenty two of these and will give you the last eight in December as an exercise for the student...

#### TELEPHONE ANSWER MACHINE MESSAGES-

We didn't get many of these from our readers in the past month.. in fact, not one. I like the one a friend of mine had a few years ago-, the message goes something like this: "Well, lets see, got my clubs, my wallet, my keys, my golf shoes, and that and that. Guess I'm ready to go..." The next thing you hear is the door slamming and then silence for about five seconds until the beep sounds. Kinda leaves you hanging for a bit.

#### COMPUTER PROGRAM EXPERIENCE SHARING-

N6XUC has Super Morse, he reports that it is a very good program providing flexibility and progress reports on the tests it gives you. Sounds like a good one. Thanks, Dick.

#### THE DX WINDOW-

The bands are alive with the sound of music ... the sound of music being defined as lots of DX signals. Here's some of the DX worked during the past month.

20M: CR1BI (IDTA-EU40), CT1BOP (Portugal), FWODD (Wallis & Fortuna Is.), JU750BV (Mongolia), LZ1YE (Bulgaria), SP3PMA (Poland), TU2UI (Ivory Coast), UW1BJ, UV3DF and 4KOADS (Russia) 17M: CO2DC (Cuba)

15M: GW4CDP (Wales), HR1RMG (Panama), LZ9A (Bulgaria), PA3DWD (Netherlands), ST4/WZ6C (Sudan)

12M: PJ/KV4AD (Netherlands Antilles), 1ZS6GG (South Africa)

10M: HH2LB (Haiti), JU1DX (Mongolia), XUBDX (Cambodia), YN/SMOIG (Nicaragua) de W6TKV.

#### NEW HAMS LICENSED-

The Class of '90 has been licensed and are now members of the Corona/Norco Amateur Radio Club. The receipt of the licenses was made known at about press time for the October Communicator and only Ryan Todd-KC6NZU was known at that time. The other new licensees are: Lynn Hibben-KC6NFW, Jim Arms-KC6NSC, Jason Johnson-KC6NZV, and Joe Kopeczy-KC6N???. Congratulations to you all. We look forward to congratulating you in person at the next club meeting in November.

#### FIELD DAY RESULTS

This year, CNARC ended up 76th out of 280 entries in the 3A class which put us in the top 27%. Last year, we were in the top 30%, so we moved up in the ranks a little. Perhaps with a few more operators in the wee hours, some emphasis on CW operation, and with a little more Novice/Technician activity, we might take a giant step upward.

For reference, the winning club had 3,459 QSO's, the 25th place club had 1,855 QSO's, and the 50th place club had 1,334 QSO's (apparently with a high CW QSO count).

#### CNARC QUICKIE CONTEST #7

With complete disregard for the saner aspects of contesting, the latest Quickie Contest has been designed to drive everyone crazy. It is divided into 2 parts, HF and VHF, so you have a choice on how to win. The idea for the HF group is to work all states in alphabetical order, i.e. AL, AK, AZ, CA, CO, CT, DE, FL, GA, HI, ID, IL, IN, IA, KS, KY, LA, ME, MD, MA, MI, MO, MT, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, OR, PA, RI, SC, SD, TN, TX, UT, VT, VA, WA, WV, WI, WY. For the VHF group, you have to work 50 cities in a similar sequence, that is, starting with the same first letters as the states, i.e. 3 A's, then 3 C's, then 1 D, then 1 F, etc.

This contest will start with your receipt of this newsletter and end at the Christmas Party. The winner will be the CNARC member who works his/her way furthest down the list of states/cities. As you can see, this contest is designed to test your accounting skills as well as your operating patience. de- W6TKV

#### SANTA CLAUS TO VISIT PEPPERMINT RIDGE

KP4DX has agreed to chair Santa's radio visit to Peppermint Ridge this year. If he calls you for your assistance, be sure and say yes. It's a worthwhile undertaking for CNARC. As reported elsewhere, the tentative date is 5 December in the evening. Participants thus far are KJ6B-Santa, and Elves NF6Y, AF6F, N6MWH, KB6GNZ, and of course Chairman KP4DX.

#### CALIFORNIA QSO PARTY REPORT

W6TKV reports another exciting QQP this

year, ending up with 1500+ QSO's. In the past 2 years, he had a clean sweep of the 5B multipliers, but he failed to work a VEB this year. He reports WAS in 7 hours and 40 minutes.

**CHRISTMAS PARTY REMINDER**

Our annual Christmas Party is our December meeting, and will be held on our regular meeting night, Monday, December 3rd, but at 6:30PM. This is a family potluck with the club providing the soft drinks, and will be at W6TKV's QTH in La Sierra. Mark your calendar now, and do tell W6TKV how many will be in your family group. The 6:30 time is aimed at gathering the group for socializing. The Potluck will commence at about seven or a bit later. Further details will be discussed at the November meeting. Incidentally, this will be a 'pure' potluck- let your intuition be your guide.

**THE YASME FOUNDATION AND LARGEST QSL COLLECTION IN THE WORLD-**

Lloyd and Iris Colvin, W6KB and W6QL have been licensed since 1929 (Iris since 1945). They have traveled in 168 countries, operated amateur radio and worked DXCC in approximately 100 of these countries. Iris is a past manager of the Sixth District ARRL QSL service, and Lloyd is a past Director of the ARRL Foundation.

In 1965, with the sponsorship of the Yasme Foundation and the stipulation that they would pay all their own expenses, Lloyd and Iris started forth on a world-wide DXpedition which is still going on. Lloyd and Iris now have the largest QSL collection in the world. Some of the statistics on their QSL collection are amazing. It now numbers close to 500,000 QSLs. They are all filed in metal file drawers. There are 352 drawers. Each drawer can hold a maximum of 2000 QSLs; probably an average of about 1,400 QSLs per drawer is a good guess as to the present QSLs filed. At this figure, the number of QSLs comes to 472,800. The average weight per drawer, full of QSLs, is 10 pounds. This gives total weight of 3,250 pounds, which is close to 2 tons! If it takes a person 1-1.5 minutes per QSL to open a letter, sort the QSL card, check it off the log, answer it and file it, (a very conservative estimate), it would take 709,200 minutes, or 11,860 hours for the task. If one person, working 40 hours per week, did all of this work, it would take 295 weeks or nearly 4 years of solid full-time work to file this gigantic collection of QSL cards. This, of course, allots no time to the job of making the 1,000,000 QSOs which Lloyd and Iris have made.

**Worldwide Time Conversion Chart**

| UTC  | London/Accra | Paris/Lagos | Johannesburg/Cairo | Nairobi/Moscow | Lahmabad | New Delhi | Bangkok/Jakarta | Beijing/Manila | Tokyo/Seoul | Sydney/Saipan | Noumea | Auckland | Honolulu | Vancouver (PST) | Edmonton (MST) | Mexico City/Winnipeg (CST) | Bogota/Toronto (EST) | Caracas/Santiago | Buenos Aires |
|------|--------------|-------------|--------------------|----------------|----------|-----------|-----------------|----------------|-------------|---------------|--------|----------|----------|-----------------|----------------|----------------------------|----------------------|------------------|--------------|
| 0000 | mid          | 1a          | 2a                 | 3a             | 5a       | 5:30a     | 7a              | 8a             | 9a          | 10a           | 11a    | noon     | 2p       | 4p              | 5p             | 6p                         | 7p                   | 8p               | 9p           |
| 0200 | 2a           | 3a          | 4a                 | 5a             | 7a       | 7:30a     | 9a              | 10a            | 11a         | noon          | 1p     | 2p       | 3p       | 4p              | 5p             | 6p                         | 7p                   | 8p               | 10p          |
| 0400 | 4a           | 5a          | 6a                 | 7a             | 9a       | 9:30a     | 11a             | noon           | 1p          | 2p            | 3p     | 4p       | 5p       | 6p              | 7p             | 8p                         | 9p                   | 10p              | 11p          |
| 0600 | 6a           | 7a          | 8a                 | 9a             | 11a      | 11:30a    | 1p              | 2p             | 3p          | 4p            | 5p     | 6p       | 7p       | 8p              | 9p             | 10p                        | 11p                  | mid              | 1a           |
| 0800 | 8a           | 9a          | 10a                | 11a            | 1p       | 1:30p     | 3p              | 4p             | 5p          | 6p            | 7p     | 8p       | 9p       | 10p             | 11p            | mid                        | 1a                   | 2a               | 3a           |
| 1000 | 10a          | 11a         | noon               | 1p             | 3p       | 3:30p     | 5p              | 6p             | 7p          | 8p            | 9p     | 10p      | 11p      | mid             | 2a             | 3a                         | 4a                   | 5a               | 6a           |
| 1200 | noon         | 1p          | 2p                 | 3p             | 5p       | 5:30p     | 7p              | 8p             | 9p          | 10p           | 11p    | mid      | 1a       | 2a              | 4a             | 5a                         | 6a                   | 7a               | 8a           |
| 1400 | 2p           | 3p          | 4p                 | 5p             | 7p       | 7:30p     | 9p              | 10p            | 11p         | mid           | 1a     | 2a       | 3a       | 4a              | 6a             | 7a                         | 8a                   | 9a               | 10a          |
| 1600 | 4p           | 5p          | 6p                 | 7p             | 9p       | 9:30p     | 11p             | mid            | 1a          | 2a            | 3a     | 4a       | 5a       | 6a              | 8a             | 9a                         | 10a                  | 11a              | noon         |
| 1800 | 6p           | 7p          | 8p                 | 9p             | 11p      | 11:30p    | 1a              | 2a             | 3a          | 4a            | 5a     | 6a       | 7a       | 8a              | 10a            | 11a                        | noon                 | 1p               | 2p           |
| 2000 | 8p           | 9p          | 10p                | 11p            | 1a       | 1:30a     | 3a              | 4a             | 5a          | 6a            | 7a     | 8a       | 9a       | 10a             | noon           | 1p                         | 2p                   | 3p               | 4p           |
| 2200 | 10p          | 11p         | mid                | 1a             | 3a       | 3:30a     | 5a              | 6a             | 7a          | 8a            | 9a     | 10a      | noon     | 2p              | 3p             | 4p                         | 5p                   | 6p               | 7p           |

If your time zone is on Daylight Saving Time ("Summer Time"), add 1 hour.

**Shortwave Frequency/Wavelength Conversion Chart**

| Frequency in kilohertz (kHz.) | Frequency in megahertz (MHz.) | Wavelength meter band (M.) | Frequency in kilohertz (kHz.) | Frequency in megahertz (MHz.) | Wavelength meter band (M.) |
|-------------------------------|-------------------------------|----------------------------|-------------------------------|-------------------------------|----------------------------|
| 3900- 4000                    | 3.9 - 4.0                     | 75                         | 13600-13800                   | 13.6 -13.8                    | 21 (or 22)                 |
| 5950- 6200                    | 5.95- 6.2                     | 49                         | 15100-15600                   | 15.1 -15.6                    | 19                         |
| 7100- 7300                    | 7.1 - 7.3                     | 41                         | 17550-17900                   | 17.55-17.9                    | 16                         |
| 9500- 9900                    | 9.5 - 9.9                     | 31                         | 21450-21850                   | 21.45-21.85                   | 13                         |
| 11650-12050                   | 11.65-12.05                   | 25                         | 25670-26100                   | 25.67-26.1                    | 11                         |

de KB6GNZ

**TO BE HUNG ON REFRIGERATOR OR FREEZER**

**CORONA/NORCO AMATEUR RADIO CLUB**

**NOVEMBER**

1990

SUN MON TUE WED THU FRI SAT

|    |                                       |    |  |                    |               |                                  |
|----|---------------------------------------|----|--|--------------------|---------------|----------------------------------|
|    |                                       |    |  | 1                  | 2             | 3<br>HEART ASSN<br>5-10K RUN     |
| 4  | 5 Hospital<br>Net 1900<br>CLUB<br>MTG | 6  | 7 CW Net<br>2000Hrs<br>28.290M<br>Bkfst - 0800 | 8                  | 9             | 10<br>GD Swap<br>0600-1100       |
| 11 | 12<br>Net 8PM<br>146.535<br>Bd. Mtg   | 13 | 14<br>CW Net<br>2000Hrs<br>28.290M             | 15                 | 16<br>*KB6DOL | 17<br>T-Hunt<br>1000<br>@ Church |
| 18 | 19<br>Net 8PM<br>146.535              | 20 | 21<br>CW Net<br>2000Hrs<br>28.290M             | 22<br>THANKSGIVING | 23            | 24<br>TRW Swap                   |
| 25 | 26<br>Net 8PM<br>146.535              | 27 | 28<br>CW Net<br>2000Hrs<br>28.290M             | 29                 | 30            |                                  |

**Net Assignments for NOVEMBER:**

Net control, Monday night net — John — NF6Y, 146.535MHz, 8PM

Hospital Net: 7 PM, 146.985MHz (-), Then 147.585 MHz (S).

Corona PD — Dick — N6XUC, Larry — KB6GQE

Corona Community — <sup>Milt - WM6S,</sup> <sup>Terry - N6DUV</sup> ~~City~~ — N6DUV

Circle City — Chuck — N6CFQ, Mark — N6MWH

\* Birthday