W3ACO

When I first got interested in radio

What was the first thing I built

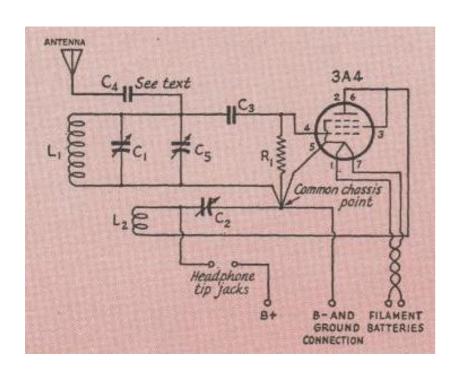


How I got started

- My father had a Zenith Trans-oceanic radio that covered the short wave bands.
- I became fascinated with short wave broadcasts.
- I was 9 years old in 1948.
- My uncle Sam was a ham, his call was W2IIY
- He had a big transmitter in a 6 ft rack.
- He gave me a number of parts.

My first receiver

- I got a copy of the ARRL handbook
- I built a regenerative receiver using a 3A4 tube.
- It used 2 45 volt batteries for the high voltage and No 6 cells for the filament.



- Coils were wound on a cardboard tubes.
- It worked on 40 meters
- My antenna was a wire about 40 feet long.

First license

- Received it in Nov 1957
 - I had to go to the FCC office in NYC.
 - I passed the 5 WPM test and the written.
 - K2YHL

- Joined the W2SZ radio club
- I focused on 2 meter propagation
- I helped build a 250W amplifier with K2YRZ (SK)

Home station 1957

- In Westchester county NY
- Transmitter, 6 meter Home brew 4-400 tube with a pair of 810 modulators
- Receiver, NC-98 with a tube down converter
- Antenna, 8 element yagi on a 48 ft tower
- Operating this rig from 1958 through 1963.
- Achieved 8th highest in the 1960 VHF contest

- In 1963 worked for RCA on the Atlantic missile range.
- Was comm engineer for Ascension Island.
- Learned a lot about HF propagation
- Two important links:
 - ASC to Patrick AFB, Florida
 - ASC to Mahe, Seychelles

Return to USA

Worked at several small companies in Maryland.

- Call changed to W3ACO
- Inactive for several years
- Moved to Iowa in 1976
- Built KCJJ radio station (still on the air)
- Worked for Collins radio beginning 1978

Collins Radio

- Worked in Advanced technology Dept.
 - Designed a number of receiver modules
 - ARC-186
 - ARN-108
 - Tacan airborne rotating antenna
 - 30 to 88 Mhz tuned antenna for A-10 aircraft



- Satellite weather information system for commercial aircraft
- TTNT digital network a-a and a-g
- Hold 13 patents , communications and avionics.

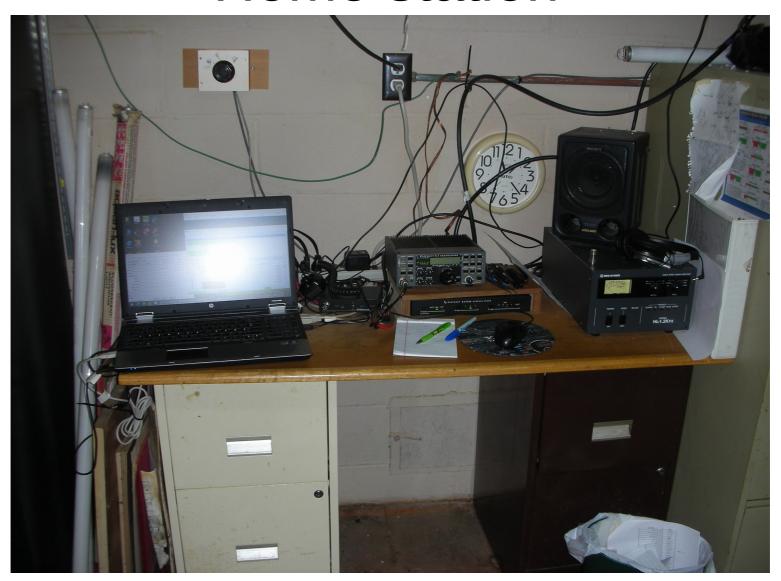
New stations

- House station
 - Elecraft K2, Hy-Power amp
 - Antennas over the years 40 M and 20 M dipoles



- 30 M dipole
- Now 20 M dipole and 80 M vertical

Home station



Shop station

Located 1 mile North of Cosgrove Iowa

A room inside my woodworking shop

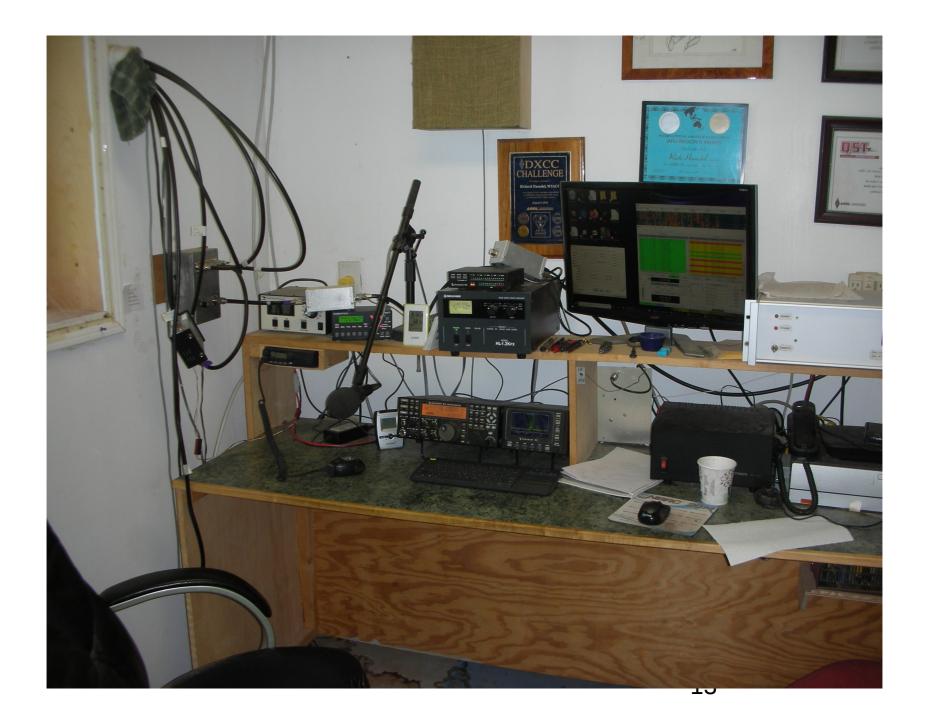
- Rig: Elecraft K3/10, Hy-power amplifier,600 watts
- Home brew 6 meter amp at 90 watts



Antennas

- 3 element Steppir at 50 ft on a telescoping tower
- 5 element 6 meter yagi at 55 ft
- 30M/40M vertical
- 30M or40M inverted vee at 50 ft.







40M -30M vertical



Accomplishments

 Member of PJ2T contest team for CW SSB 2014, 2016 and 2018



 First in the world in 2016 m/m category.

PJ2T



• DXCC

- Mixed * 330
- CW * 318
- Phone * 311
- Digital * 279
- 80M * 102
- 40M * 145
- 30M * 162
- 20M * 319
- 17M * 315
- 15M * 304
- 12M * 262
- 10M * 233
- 6M 17
- Challenge 1859