



YAVAPAI SIGNAL



The Yavapai Amateur Radio Club • Prescott, Arizona • DM-34 • Volume 24 – No.3 • March 2009

From The President's Desk ...



Challenges & Opportunities – I've been thinking about all of the challenges facing us in all of our endeavors. It doesn't seem to matter what the subject matter is, be it ham radio, getting to work on time, limiting our calorie intake, etc.

I was once told by an old and wise gentleman, (my ham radio mentor – K9CTP [SK]) to always look at our day to day challenges as opportunities. This was back when I was fifteen years old, and a Sophomore in high school. He said that it will change your whole approach to the problem (challenge) if you can see them as opportunities. "Like what?", I asked. He said "Well, lets take that 40-meter antenna you want to put up." "Do you have all of the parts yet? Do you know how much wire you'll need? Do you know how much feed-line you'll need?" "Well no." I answered, "But how can I find out?" I asked, hoping he'd just tell me and I could go get it all at the store, and he'd build it for me.

He answered by saying "You have quite a problem, Bob, but you can make it a lot of fun if you look at it as an opportunity to learn a bunch of new things rather than a problem of having to plod along going through the pain of figuring it out the hard way." Don't look at it as a stumbling block, but rather as an opportunity to be able to understand

it well enough to be able to explain it to someone else. And so it went, digging into the ARRL Antenna Book, calculating the amount of wire that was needed, measuring to estimate the amount of feed-line needed, and the scariest part of all ... learning to solder!

Well the antenna worked pretty well (I achieved a WAS award with a 50-watt transmitter with that antenna), and I learned that I liked to work with both my hands and my head, which led me to eventually study at the university level, and into the life long career of Electrical Engineering. So what I thought of as a problem (challenge) really turned into a gargantuan opportunity, and I didn't even realize at the time.

A lot of you YARC Club members are facing just that right now in studying for your Technician Class license, General Class license, or your Amateur Extra Class license, and yes, you can view it as a problem/challenge, but it's a whole lot more fun if you see it as an opportunity to really understand all of the radio theory, and even to think as to why it might be the way it is ... and that could lead to all sorts of wonderful results and endeavors as you make your way through life. Stop and smell the roses and embrace the opportunities. You just never know ;-)

73,
Bob, W7TQJ

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YARC Officers for 2009

President

Bob Erdmann, W7TQJ
W7TQJ@cableone.net

Vice President

Pete Morrison, K6VVR
pm_service@earthlink.net

Secretary

Jeff Hanna, WB7RFY
jeff668@commspeed.net

Treasurer

Mary Vince, AB7NK
ab7nk@ARRL.net

Board of Directors (includes Club Officers)

Terry Pemberton -- KB7TRE

Tom Griswold -- N6LSA

Richard Bozeat – KE7DTR

Walter Schumann – KF6SPS

Newsletter Editor: Joe Oliver, AC6AA

Welcome to the Yavapai Amateur Radio Club

The Yavapai Amateur Radio Club (YARC) is an ARRL affiliated Special Service Club. The club participates in many activities in the tri-city area by providing communications for local events, emergency communications, and promotion of the hobby throughout the community.

Membership in the YARC is open to any interested amateur or non-amateur alike. Dues are \$20.00/year (Full-time students \$15). The YARC meets at 7:00 p.m. local time on the first Thursday of every month in the Technology Room 404, at the Granite Mountain Middle School, 1800 Williamson Valley Road in Prescott. It is about ½ mile north of Iron Springs road, and all amateurs and non-amateurs as well are invited. Programs of interest are included as part of the meeting.

The weekly Net is held every Wednesday at 7:00 p.m. local time on 146.880- repeater. All amateurs are invited to participate, and visitors are always welcome.

The Yavapai County ARES/RACES Net is held on Monday nights approximately at 7:00 p.m. local time on the 145.290- repeater on Mingus Mountain. A PL of 127.3 is required.

Club Repeater

The YARC 146.880- repeater is located on the hill above Willow Creek road and requires a PL of 100.0 Hz. Our deepest gratitude to Bill Kafka, W2YAV for allowing us to acquire the original club repeater.

Minutes of February 5, 2009 Board Meeting



Meeting was called to order at 1815 hrs. by the President, W7TQJ. Also in attendance:

KB7TRE, KF6SPS, N6LSA, K6VVR, AB7NK, & WB7RFY.

After Christmas Party was reviewed, and several program ideas discussed and survey analyzed.

Hamfest is in process; KB7TRE will chair. New flyer in design, insurance rider received, raffle ready, and site for date secured. Will need to do better clean-up this year; possible site fee.

Field Day/Picnic relocated to Willow Lake Ramada due to reservation conflict; will decide after this year's event which site is preferable.

Question rose if non-members can assist in activities? Resounding 'of course', should openly encourage non-ham xyl/om and harmonics to be active and participate.

Statehood day event and classes/testing in upcoming month to be highlighted at meeting.

Meeting was adjourned at 1859 hrs.

Respectfully submitted,
Jeff Hanna, YARC Secretary

Membership Count:

1st Thurs. in Jan.....156

Gain/Loss.....+ 3

1st Thurs. in Feb.....159*

* Includes 16 3-Month Memberships



Minutes of February 5, 2009 General Meeting

. Meeting was called to order at 1902 hrs. by the President, W7TQJ. Following the Pledge of Allegiance, introductions were made.

Attendance: 65 of whom 45 signed in. Visitors included KE7TDR, KE7TWQ & several others.

New Members: On motions by WB9VGJ & KB7TRE, seconds by KB7TRE & WA6AQK, and no dissenting votes, Marcos Montejano, KE7UJY and Joseph Holtey, W7ZW were elected to the membership.

Minutes: of January 8, 2009 were accepted as published.

Treasurer: AB7NK reports starting balance of \$1546.11, ending balance of \$1798.72 & repeater fund balance of \$424.92. Report accepted as read.

COMMITTEE REPORTS:

ARES/RACES: WA6ZZJ reminded all of training meeting on February 7th. Ragnor Del Sol public service event on Feb. 27th; variable hours for staggered start; long event. Contact Lloyd at WA6ZZJ@cablone.net.

IRLP: W7JLC says running & being used.

Patches & Stickers: Available from AB7NK, Patches Lg & Sm, \$ 3.00 ea., Club Stickers \$ 1.00 ea.

Shirts: W6CCD has club shirts available, \$ 19.00.

Badges: Order thru WB6ODR lrsmith@cablone.net.

Classes: W7JLC repeated upcoming schedule as published in February

newsletter. Feb. 14 – Technician, currently 11 students; Feb 28 & March 5 – General, currently 5 students; March 21 & 28 – Extra, currently 5 students. Register via e-mail to jscra@cableone.net.

VE Testing: AB7NK reported on recent special testing that resulted in a new Tech & an Extra upgrade. Schedule Feb 21, March 14, & April 4 at ERAU; May 31 at Prescott Hamfest. Contact AB7NK@arrl.net.

School Groups:

Bradshaw Mountain: N5RO expressed appreciation for all donations, material and cash.

Proudly announced receipt of ARRL grant for 2009-2010, which will include a new station for the youth. This will allow the accumulated equipment to be passed to future High School club. Needs your time to assist with steorage of the W7BMB group; please contact N5RO@arrl.net to offer your assistance.

Granite Mountain: KB7TRE is leading Statehood Day event with Granite Mountain students at Sharlot Hall on February 14, 9:00 am to 3:00 pm, YARC will provide snacks and lunch

for participants up to \$ 60.00 on motion of WB9VGJ, second N6LSA and no dissenting votes. All are encouraged all to “come by and visit, participate or mentor”.

Elmer: KA7JAS reports all currently covered.

Refreshments: chairman K6UWV says eat, drink & recycle.

Young Hams Net: reports no big changes. Sunday 7:00 pm on 147.22; 162.2 pl via KI6AHH.

Field Day: location moved to WILLOW LAKE Hilltop Ramada, June 27 & 28 reports WA6ZZJ; more to come as date gets nearer.

Slow-Code Net: is now on 146.88 repeater, reports WB7UZV; held on Sunday evening starting about 7:45 pm local. Check-in via voice if monitoring; modulated FM to participate in cw. All welcome.

T-Hunts: K6VVR is progressing in assembly of hidden Transmitter in a (small) box. Will have activity in conjunction with field day, and thereafter on a regular schedule.

Programs: Your ideas and interests

are requested. Contact KE7DTR, N6LSA, and/or W7TQJ. March program will be successful QSL'ing presented by N7CW; rest of year still open...

After Christmas Party: Applause for all who assisted in another great event; same place and plan for next year raised more applause.

Hamfest: chair KB7TRE reported on general plans for 3rd Annual Prescott Hamfest featuring larger spaces. Limited area for tailgating, but no vehicle movements during event; plan to end at about 1:00 pm this year. Flyer will be available soon. May 30, 2009, and will plan to continue event on last Saturday of May in future years.

No new Business...

Tonight's Program will be Empire on the Air video, part 2.

50/50 drawing of \$ 64.00 won by KD7VBG.

On motion of WB9VGJ, second by KB7TRE and no dissenting votes, meeting was adjourned at 1945 hrs.

Respectfully Submitted,
Jeff Hanna, WB7RFY
YARC Secretary



At left is the QSL Card to be used for the K7A Special Event Station celebrating Arizona's Statehood Day.

For a report on activities at this event, see the article by Mary Vince, AB7NK on Page 6 and 7.

Also see Danielle Stephenson's account of this year's Sharlot Hall Museum event on Page 11. Eight year old Danielle joined other students operating the K7A Special Event Station. Danielle passed her Technician license exam a week later, on February 21st.

Danielle's report of K7A's Special Event Station also can be found online at prescottnews.com.

Yavapai Amateur Radio Club

Treasurer's Summary February 2009

Income

* Memberships	\$160.00
Repeater Fund (8 renewals \$16.00 - misc donations \$65.00)	81.00
Shirts & patches (3 shirts 1 lg patch)	60.00
Fifty-fifty	128.00
ARRL - Renewals	130.00
Change from Statehood Day	<u>1.23</u>
Total Income	\$544.23

Expenses

Ck # 1062	K6UWV	David Passell	Refreshments	\$ 7.14
Ck # 1063		Allegra	Newsletter	27.49
Ck # 1064	KB7TRE	Terry Pemberton	Statehood Day	60.00
Ck #1065		U.S. Postmaster	PO Box 1 yr	58.00
Cash	KD7VBG	Patti Halgunseth	50/50	54.00
Ck #1066		ARRL (New & Ren)	WA6WNV WA6AQK KD6FDA KD6FCZ & WB9VGJ	<u>111.00</u>
Total Expenses				327.63

Beginning Balance 1/20/09	\$1,741.72
Income	<u>544.23</u>
Sub total	2,285.95
Expenses	<327.63>
Repeater Fund	(535.92)
Ending Balance 1/20/09	1,422.40
Net Income	\$ 319.32

*Itemized copy on file



March Program

March's Program Speaker will be Bud Semon, N7CW. His topic will be "**Successful QSLing**".



Happy St. Patrick's Day



By Lloyd, WA6ZZJ

ARES/RACES.....

TRAINING MEETING SATURDAY, FEBRUARY 7, 2009.....

The first quarterly training meeting of the year was held in Prescott on Saturday, February 7th at the Yavapai County EOC. There were 23 members and guests in attendance with several making the 80+ mile round trips from Congress and Yarnell to attend. There were also several new members that attended this meeting. We covered the topics of:

- Introduction to EMCOMM
- ICS-213 and Yavapai County OEM Message form along with Passing Message Traffic.
- Emcomm Tools. (Phonetics, Break Tags, Pro Words, etc.)

Thanks to all who attended this meeting. Ongoing training is an important part of our commitment to being well qualified communicators in an emergency or public service situation.

The next quarterly training meeting scheduled for Saturday, April 18, 2009 has been cancelled and a new date and time will be announced.

UPCOMING EVENTS.....

Friday, April 3, 2009 will be this years Wildfire Exercise. This is a yearly Exercise event to prepare for the upcoming Fire Season. ARES/RACES is involved along with other response agencies in the area. More information will be coming on this.

Saturday, April 18, 2009 will be the annual Wildfire Expo taking place at the Prescott Courthouse Square. The MARC and ARES/RACES will be on display along with other agencies and organizations. It will be from 10:00 in the morning until 3:00 in the afternoon.

SPECIAL EVENT COMMUNICATIONS.....

Ragnar Del Sol

On Friday, February 27th YARC members participate in communications for the Ragnar Del Sol Relay Race. This 202 mile foot relay race starts in Prescott and ends in Mesa. This is the first year starting in Prescott and we were asked by the Maricopa County Emergency Communications Group (MCECG) to provide communications assistance on the Prescott to Kirkland leg of the race.

More on this next month....

Whiskey Off Road 2009

The Whiskey Off Road mountain bike event appears to be the next event for this year. According to their website it is scheduled for Saturday, April 25, 2009. I am still awaiting more information on this event soon so I can begin taking sign-ups.

Whiskey Row Marathon

The running of the 31st Whiskey Row Marathon will be on Saturday, May 2, 2009. I have already sent in to the YMCA a confirmation that we would be providing communications again this year. Sign-up for this event will begin at the March YARC meeting. ■



Happy Birthday Arizona

By Mary Vince, AB7NK

Statehood Day, Arizona's Birthday, Valentine's Day means different things to different people. For the students at Granite Mountain, K7GMG, and Bradshaw Mountain, W7BMB, Middle School amateur radio clubs, it generally means getting out of classes, eating donuts and pizza and having a great time on ham radio. With Arizona's 97th birthday falling on a Saturday, what lacked in student participation was made up by enthusiasm and club participation.

With snow and ice still on the ground from the snowstorm 4 days earlier, several club members met at 0800 at Sharlott Hall Museum to set up the coffee, donuts and juice as well as less important items, such as the banners, antenna's and radio's.

The sewing loom and piano were delicately moved to make room for Arizona's Birthday Special Event Station – K7A. A Yaesu 857 was used for HF operation, while 2m/440 were operated on a Yaesu FT-8800.

Putting up the G5RV antenna with W7TQJ's sling shot couldn't have been easier. KB7TRE landed the line up and over a branch approximately 40' in the air in one try. Fred N7PJM grabbed the line, tied on the string as Terry reeled it in.

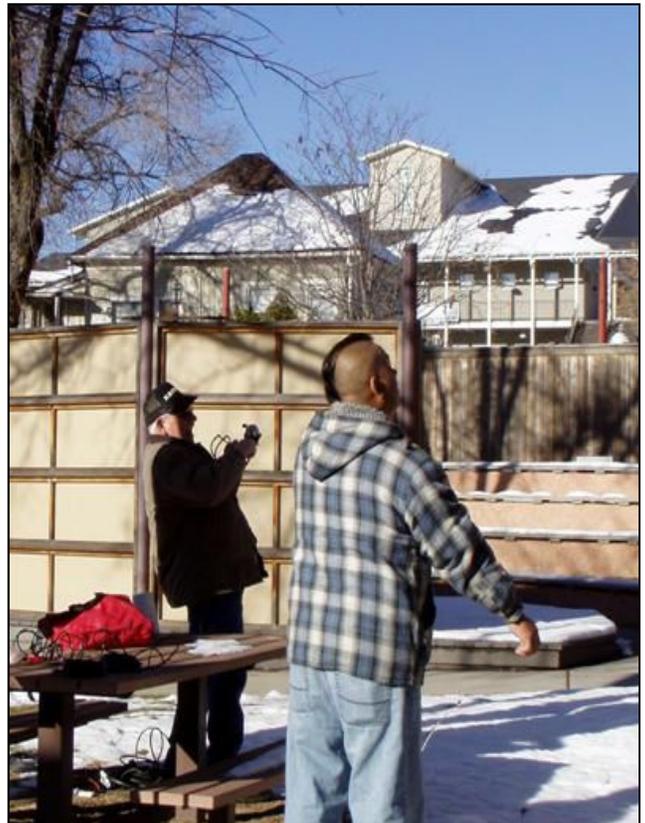
KA7JAS made sure everything was working properly. After receiving a 5x7 signal report from his buddy in Louisiana, it was now time to turn the station over to the students.



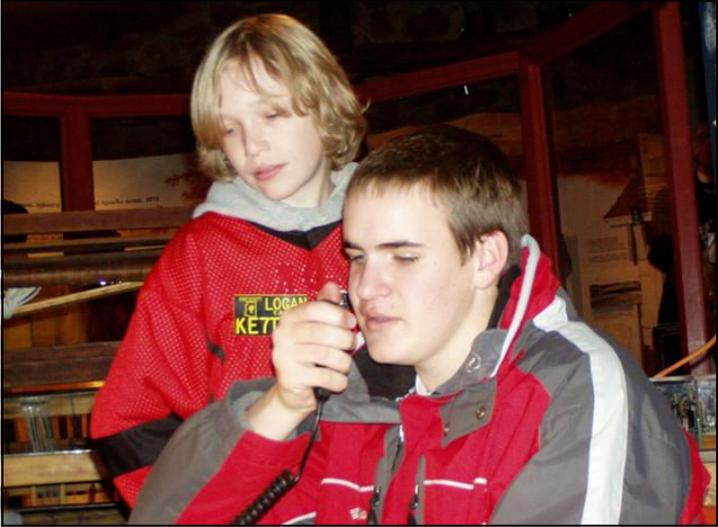
K7A Special Event Station



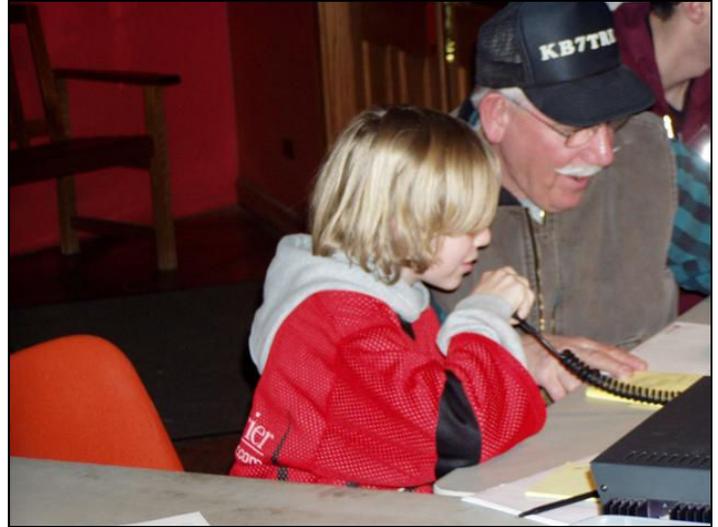
Neil, KA7JAS Checking Station for Proper Operation



Terry, KB7TRE, Installing G5RV Antenna with the Help from a Sling Shot



Newly licensed, Joshua, KE7YAD from Granite Mountain Middle School ham radio station K7GMG eagerly began calling CQ CQ K7A special event station.



Long time amateur, Logan, KE7TWQ makes his first contact with Hawaii while Terry, KB7TRE, enters the contact in the log sheet. Logan has participated in Arizona's Birthday Celebration for the last two years. He's been licensed as KE7TWQ since May 2008.

At lunch time 5 extra large pizza's were devoured before the adults knew they'd arrived.

Students from Bradshaw Mountain Middle School were unable to attend this year. Some were at a technician license class which happened to fall on the same day as the special event station.



Thomas KE7PDZ operates HF while Joshua KE7YAD wakes up everyone all over the world on IRLP

Eight year old Danielle came directly from the technician class to Sharlott Hall. The excitement could be heard in her voice as she began calling CQ CQ K7A Special Event Station on 2 meters and IRLP.

Students attending from Granite Mountain Middle School Radio Club, K7GMG, Kilo 7 Granite Mountain Grizzlies were, Joshua, KE7YAD, Logan, KE7TWQ and Thomas KE7PDZ.

A total of 66 contacts were logged. The students talked to Canada, Alaska, Hawaii, Mexico and Japan. Contacts are being verified and a special 4x6 QSL card designed by the K7GMG radio club students will be sent to those who QSL with a 5x7 SASE to K7GMG.

As to not leave out anyone who graciously gave up part of their Valentine Saturday to come make the K7A special event station a success once again – THANK YOU! ■



Antennas

1. Cushcraft A505S 5 element 6 Meter Beam
2. MFJ-1762 3 Element 6 Meter Beam
3. Hy-Gain AV-14AVQ 40 - 10 Meter Trap Vertical Antenna.

All antennas are still in good working condition.

Contact Gary Shipiro, WD8DOT in Prescott Valley.

Call (928) 775-0606 or

e-mail Gary at: gshapiro57@cableone.net

School News



As many of you know, I have sponsored the Amateur Radio Club at Granite Mountain Middle School since the early 1990's. Our club call sign is K7GMG, Kilo Seven Granite Mountain Grizzlies. We meet each Thursday starting at 3:20pm and currently have 11 student members. Beginning this week our club schedule with The Bradshaw Mountain Middle School radio club, W7BMB, will be on the YARC repeater, 146.880.

Over the years I have been well supported by the Yavapai Amateur Radio Club. In the last few years I have had the good fortune of having Neil and Mary Vince, KA7JAS and AB7NK, as enthusiastic technical and academic supporters. Also many of you have supported my programs through tax credit donations.

At the last club meeting I was surprised to learn that Jim Ball, WB7UZV, had purchased four new Icom HT's to donate to my students when they earn their Technician licenses.

I thank you all for the great things you do for our kids!

Terry, KB7TRE

VE Tidbits



by Mary Vince – AB7NK

Saturday, February 21st, the Prescott VE Team held it's first scheduled test session for 2009. This was our largest test session to date, with the least amount of VE's, in a new testing facility. I'd really like to thank ALL the VE's who participated. It was extremely busy and sometimes hectic, however, the end results made it all worthwhile. No matter what position you assisted in, each is as important as the other.

There were 24 applicants, resulting in 11 technicians, 3 upgrades to General and 5 to Extra. One of the extra's aced the exam and I'm proud to say this is the 2nd women to do so this year! Two gentlemen came to the testing without a license, 1 left as a general the other as an extra. Both had taken the technician class put on by Jack, W7JLC and his instructors. I'm sure I speak for all the VE's when I say the biggest highlight was when 8 yr old Danielle passed her technician exam. Congratulations to all!

Testing will again be held, March 14th and April 4th at Embry Riddle Bldg #75.

May 30th is the Prescott Hamfest at Granite Mountain Middle School. We'll hold testing in Room #404 at 9:00 A.M.

Congratulations again to all the new licensee's and upgrades. ■

Upcoming Events

- **February 27 & 28, 2008** - Ragnar Del Sol Relay Race
- **February 28 & March 7, 2009** - Amateur Radio General Class License Class
- **March 21 & 28, 2009** - Amateur Radio Extra Class License Class
- **April 3, 2009** - Wildfire Exercise
- **April 18, 2009** - Wildfire Expo at Prescott Courthouse Square
- **April 25, 2009** - Whiskey Off Road 2009
- **May 2, 2009** - Whiskey Row Marathon
- **May 30, 2009** - Annual Prescott Hamfest

Radio Surplus, Back in The Early 1950's

Reprinted with W9PPG's permission

In the early 1950's there was a large quantity of World War II surplus equipment still available at bargain prices from a multitude of surplus equipment dealers.

The most popular and most numerous of the surplus equipment was the ARC-5 Command set series of transmitters and receivers. For their day these were small, well-engineered pieces of equipment which were used on military aircraft during the war. Hams quickly found that they were easy to modify and use as ham equipment. The equipment had originally been designed by Aircraft Radio Corporation but during the war years was also produced in large numbers by the Western Electric division of ATT and Colonial Radio Corporation.

The transmitters used a 1626 triode as the vfo with a pair of 1625's (12 volt version of the 807) in parallel as the final amplifier. There was also a modulator using a pair of 1625's on a separate chassis. There were five transmitters covering different frequency segments as follows:

2.1-3.0 MHz, 3.0 - 4.0 MHz, 4-5.3 MHz, 5.3-7.0 MHz, and 7.0-9.1 MHz.

There were two of these that hams immediately found could be put on the ham bands. These were the ones whose frequency range covered the 80 or 40 meter ham bands. The 2.1-3.0 MHz transmitter could without too much difficulty be retuned to cover the 160 meter ham band. During the late 40's and early 50's, there were large numbers of these transmitters in use by amateurs. The 4.0-5.3 MHz and 5.3-7.0 MHz transmitters were kind of outcasts and many of

these were dismantled for parts for other building projects.

Then in the early 1950's single side band began to gain popularity in ham radio. Much of the early SSB was generated at an RF frequency of 9.0 MHz. Hams soon found that the two aforementioned transmitters with slight modification made great 5.0 - 5.5 MHz vfo's for mixing with the 9.0 MHz SSB signal to put them in either the 80 or 20 meter bands depending on whether the next stage was tuned for the sum or the difference mixing product. The ham radio magazines often had articles about conversion and modification of these radios to various ham bands.

There were five main receivers in the series covering the following frequency ranges:

190 - 550 Khz, .52-1.5 MHz, 1.5 - 3.0 MHz, 3.0 - 6.0 MHz, and 6.0 - 9.1 MHz.

It is my understanding that there were small numbers of higher frequency range units manufactured at least experimentally, but I myself have not seen any. These receivers were 6 tube superhets with one RF amplifier, mixer/oscillator, two if amplifiers, detector/bfo, and audio amplifier. Like the transmitters, they had tubes with 12volt filaments but wired in series so that they could operate the filaments directly from the aircraft 24volt dc system. For high voltage they used a 24volt dynamotor mounted on the rear of the chassis. The dynamotor provided approximately 180volts dc for the high voltage.

The most popular receivers were the two that covered the 80 and 40 meter amateur bands. It was soon found by amateurs that the 190 - 550Khz receiver was of great use to

improve the selectivity of many commercial and home brew amateur receivers then in use. Most of the commercially available ham receivers of the day had 455Khz if amplifiers and most lacked selectivity on crowded ham bands. The If frequency of the 190 - 550Khz command set was 85Khz and had far better selectivity.

After conversion to AC power and the addition of a switch for the BFO, it was a simple matter to couple the antenna input of the command receiver to the output of the last if stage of the ham receiver. With the command set then tuned to 455Khz, the ham now had a very selective receiver. Since these radios were available often for \$5.00 or less, it was not terribly expensive even considering that an AC power supply had to be provided.

My first station as a ham, used a BC-454 3.0 - 6.0Mhz Command set as receiver back in 1951. This got me on the air on the 80 meter novice band and I made many contacts with it. Many hams used this receiver with converters in front of it to cover including 6 meters and 2 meters. While it lacked selectivity, it certainly was an inexpensive way to get started.

Both the transmitters and receivers turned out to be valuable sources for parts for other building projects. QST and CQ magazines of this era had articles every month or two of conversions and modifications of these radios or building projects which used these as a source of parts. There was a phasing type SSB exciter which used either the 4.0 - 5.3 or the 5.3 - 7.0 MHz transmitter as its basis. The roller inductors and variable capacitors from the transmitters found use as components for building many different transmitters and antenna matching units.

Truism Puns

I wondered why the baseball was getting bigger. Then it hit me.

Police were called to a daycare where a three-year-old was resisting a rest.

Did you hear about the guy whose whole left side was cut off? He's all right now.

The roundest knight at King Arthur's round table was Sir Cumference.

To write with a broken pencil is pointless.

When fish are in schools they sometimes take debate.

The short fortune teller who escaped from prison was a small medium at-large.

A thief who stole a calendar got twelve months.

A thief fell and broke his leg in wet cement. He became a hardened criminal.

Thieves who steal corn from a garden could be charged with stalking.

We'll never run out of math teachers because they always multiply.

When the smog lifts in Los Angeles, U C L A.

The math professor went crazy with the blackboard. He did a number on it.

The professor discovered that her theory of earthquakes was on shaky ground.

The dead batteries were given out free of charge.

If you take a laptop computer for a run you could jog your memory.

A dentist and a manicurist fought tooth and nail.

What's the definition of a will? (It's a dead giveaway)

A bicycle can't stand alone; it is two-tired.

Time flies like an arrow; fruit flies like a banana.

A backward poet writes inverse.

In a democracy it's your vote that counts; in feudalism, it's your Count that votes.

If you don't pay your exorcist you can get repossessed.

With her marriage she got a new name and a dress.

Show me a piano falling down a mine shaft and I'll show you A-flat miner.

When a clock is hungry it goes back four seconds.

The guy who fell onto an upholstery machine was fully recovered.

A grenade fell onto a kitchen floor in France, resulted in Linoleum Blow-n-part.

You are stuck with your debt if you can't budge it.

He broke into song because he couldn't find the key.

A calendar's days are numbered.

A lot of money is tainted: 'Taint yours, and 'taint mine.

A boiled egg is hard to beat.

He had a photographic memory which was never developed.

A plateau is a high form of flattery.

Those who get too big for their britches will be exposed in the end.

When you've seen one shopping center you've seen a mall.

When she saw her first strands of gray hair, she thought she'd dye.

Bakers trade bread recipes on a knead to know basis.

Santa's helpers are subordinate clauses. ■

STROKE: Remember the 1st Three Letters....S.T.R.

Now doctors say a bystander can recognize a stroke by asking three simple questions:

S *Ask the individual to SMILE.

T *Ask the person to TALK and SPEAK A SIMPLE SENTENCE (Coherently) (i.e. It is sunny out today.)

R *Ask him or her to RAISE BOTH ARMS.

If he or she has trouble with ANY ONE of these tasks, call emergency number immediately and describe the symptoms to the dispatcher.

New Sign of a Stroke -----
Stick out Your Tongue

NOTE: Another 'sign' of a stroke is this: Ask the person to 'stick' out his/her tongue.. If the tongue is 'crooked', if it goes to one side or the other, that is also an indication of a stroke. ■

Two other very popular receivers that were available in fairly large numbers were the BC-348 and the BC-342 series with their various sub-designations. The BC-348 covered 1.5 to 18.0Mhz and had a 200 -500Khz range as well. I used a BC-224 (a version of the BC-348) for a period of time in the mid 50's. While I am not personally familiar with the BC-342 I know it covered 1.5 - 18.0Mhz but I don't know if it had a low frequency range. For 10 and 15 meter coverage, a converter could easily be added to convert the 10 or 15 meter signal to one of the BC-348 or BC-342 tuning ranges. These made far better ham receivers than the command set series and they had the advantage that they would cover several of the amateur bands.

For the VHF enthusiast, there was the SCR-522 transmitter and receiver. These were rather easily converted to 2 meter am operation and there many of these in use. As 2 meter fm was more

popular in the Lafayette area, I was more into conversion of some of the early commercial VHF hi-band equipment to the 2-meter band so I never became familiar with this line of military surplus.

While there was certainly other WWII surplus equipment that found its way into ham usage, I have discussed what was the most numerous and popular. I am currently restoring a BC-348 and a complete line of the command set series of transmitters and receivers. Occasionally, this equipment can still be found at hamfests.

Some of the surplus gear available wound up being mainly a source of parts. A prime example of this was the BC191/375 transmitter with its associated tuning units. This GE built gear was a dinosaur of a radio and was replaced by the ARC-5 series. Few of these were put on the air by hams but many were dismantled for the parts they

contained. The tubes in these weren't of much use since they were pretty much obsolete, a number 10 oscillator and 211 triodes for the amplifiers and modulators. I think it might be interesting though to build a 160 meter CW transmitter using 211's as the amplifier....should be a real shack warmer. These units were a real treasure trove of parts. The variable capacitors, high voltage micas, meters, ceramic multi-position switches, ceramic coil forms, etc. were used in many building project of the day. Poking around the boxes under tables at hamfests I still frequently recognize parts that probably came from one of these monsters.

I eventually will have a station back on the air using some of this restored WWII equipment. ■

73's...W9PPG

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Amateur Radio at Sharlot Hall Museum

By Danielle Stephenson

Editors Note: *This article can be found online at prescottnews.com and was submitted by 8 year old Danielle, a recently licensed Technician.*

Ham Operators were busy at the **Sharlot Hall Museum** on Valentine's Day.

Ham Operators are people who talk over the "**Ham Radio**" sometimes in Morse Code and sometimes not. Sometimes it is just pure talking. Ham Radio is also called Amateur Radio and has been around for over 100 years. The main idea for Ham Radio was for emergencies. But also for just talking. It's good for talking because you don't need anybody but yourself and your equipment. If an emergency happened, you could still communicate with other Ham Radio people with your equipment.

Every year a group of Ham Operators go to the Sharlot Hall Museum and set up their Ham Operator equipment. They were there Saturday to celebrate Arizona 97th birthday. I got to talk to a bunch of people over the Ham Radio. It was fun. Joshua Carroll was my supervisor. He is licensed to use the Amateur Radio. He is 13 years old. You have to be licensed to talk on the Ham Radio or have a licensed person with you. If you say something wrong it would go on their license.

A few times what we did was say "CQ, CQ" and that means, "This is...." And then you wait until you get a reply. And you say it over and over again until you hear somebody. And then you start your conversation. I had about 8 conversations with different people. It's really fun.

Logan Crabtree helped me sometimes too. He is 12 years old.

Today, February 21st is the next day to take your **test** to get your own Amateur Radio License at Embry Riddle. It costs \$15. ■

Weekly Breakfasts



Tues. Morning Breakfast:

7:00 a.m. at

Back Burner Cafe

8400 E. Long Mesa Drive
& N. Robert Road
Informal – all are invited.

Wed. Morning Breakfasts:

7:00 a.m. at

Iron Horse Restaurant

(Hwy 89 in Chino Valley)
(N 34°43'56.5" W112°27'15.4")*
informal – all are invited

8:00 a.m.

Masonic Lodge

(1280 Willow Creek Road,
2nd Floor; above Bank of America)
informal – all are invited

* Location data (per WGS84) provided
by Fred Zimmermann, N7PJN

Area Repeaters

Frequency	PL	Location	Owner/Club	Auto-Patch	Rem. BaseOr Linked	Vo IP	Notes:
52.560-	100.0	Mt. Union	N7NGM			Echo	-500KHz Offset
53.040-	None	Prescott Airport	WB7BYV				-1MHz Offset
145.290-	127.3	Mingus Mtn.	ARES/RACES				
146.780-	91.5	Williams Mtn.	BWARC			IRLP	
146.880-	100.0	Prescott	YARC				
146.980-	162.2	Flagstaff	CARC				
147.000+	162.2	Mingus Mtn	MMRG				
147.040+	107.2	Prescott Heights	W2YAV				
147.140+	162.2	Flagstaff/-Mt. Elden	ARA		Linked to Mt. Ord 147.360-		
147.220+	162.2	Mingus Mtn	VVARA				
147.260+	103.5	Mt. Union	ARES/RACES				
224.080-	156.7	Mt. Union	WA7JC				
442.150+	100.0	Mingus Mtn	W1OQ/Northlink				
442.350+	100.0	Glassford Hill	N7KPU			IRLP	
445.300-	100.0	Prescott	WINSYSTEM		Node 3727	IRLP	
448.475-	100.0	Flagstaff-Elden	ARA	Yes			
448.500-	100.0	Prescott	K6JSI				
448.875-	100.0	Flagstaff-Elden	Northlink		Linked		
449.175-	100.0	Towers Mountain	Northlink		Linked		
449.675-	88.50	Prescott Airport	WB7BYV		Linked to P Mtn. 927.3875		
927.3875-	151.4	Prescott	WB7BYV	Yes	Yes	Echo	Be Nice

Y.A.R.C. IRLP NODE
Node Number 3182
442.350+ MHz with a
PL Tone of 100.0 Hz

For more Repeater Information & Listings refer to:

- www.w7ara.org/Web/
- www.azrepeaters.net
- www.azfreqcoord.org/listings.htm

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Many thanks to Bob Smith, WB6ODR, our Webmaster

