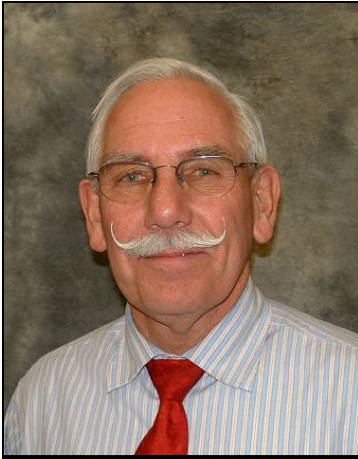




YAVAPAI SIGNAL



The Yavapai Amateur Radio Club • Prescott, Arizona • DM-34 • Volume 22– No.3 • March 2007



From The President's Desk

Community and family; two words we hear often in amateur radio. I was recently talking with another ham, a man I have known professionally for over 30 years. We were both surprised to learn the other was also a ham. We soon began comparing experiences and reasons for our involvement in ham radio, and discovered we had many other interests in common as well.

K6UWV for making the necessary arrangements for this activity. We look forward to seeing you all there. Please mark this date on your calendar.

Joe, AC6AA, thank you for keeping us up to date with activity on HB 2595. Also thank you to all the members who contacted their State Representatives. Please keep up the good work!

As we discussed at our last meeting, there may be a number of members interested in car pooling to our meetings. If you are in need of transportation to a meeting please check into the Wednesday night

YARC net on 146.880 at 7:00 p.m. Hopefully this will make it easier for some of you to attend the meetings. If you have other car pool suggestions, please bring them to the next meeting.

We have an outstanding group of members. Thank you all for the commitment that you give to the community through amateur radio and your other activities.

73 Terry, KB7TRE

After more reflection we agreed that as we began our pursuit in this hobby we were both welcomed into the community. As we continued our involvement, our community truly evolved into a wonderful extended family. Thank you amateur radio!

The Special Event Station, K7A, honoring Arizona's 95th birthday was a great success! Although we did not make many HF contacts we had a wonderful time. Four Granite Mountain Middle School students and ten YARC members shared a day of "archery and duct tape antenna challenge", donut and pizza consumption and plain old fun working the station.

We also had many contacts with museum employees and the general public. Our club and school represented us extremely well.

Lloyd, WA6ZZJ, left early to prepare for his trip to pick up the new ARES/RACES van. I look forward to his report on that adventure at our next meeting.

Our summer picnic is all set for July 14 at Watson Lake Ramada. Thank you John, W5VJH, Fred, N7PJN and David,

YARC Officers for 2007

President

Terry Pemberton, KB7TR
kb7tre@cableone.net

Vice President

Dick Hughes, W6CCD
Richard@hughes.net

Secretary

Pat Oliver, K7DUC
joliver@commspeed.net

Treasurer

Patti Halgunseth, KD7VBG
kd7vbg@cableone.net

YARC Board of Directors (includes Club Officers)

John Broughton, WB9VGJ
Ken Severance, WA6AQK
Richard Bozeat, KE7DTR
Walter Schumann, KF6SPS

Newsletter Editor

Joe Oliver, AC6AA
joliver@commspeed.net

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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. If you hear a 1400 Hz pulsing tone, the repeater is on backup battery power and usage should be limited to necessary communications. Our deepest gratitude to Bill Kafka, W2YAV for allowing us to acquire this repeater. ■

Membership Count:



1st Thurs. in Jan.....101
Gain/Loss.....+5
1st Thurs. in Feb.....106

Minutes of February 1, 2007 Board Meeting

A Board Meeting was held at 1815 MST. Present were Terry, KB7TRE; John, WB9VGJ; Pat, K7DUC; Dick, W6CCD; Patti, KD7VBG; and Ken, WA6AQK.

The joint swap meet with VVARA is set for June 2. Terry has cleared this with the school and it will be held on school property. A small committee will suffice.

The Field Day with VVARA will be held on June 23 & 24 on Mingus Mountain. There will be a barbeque. A committee is being formed.

An Amateur Radio Restriction Bill will be presented by John at the general meeting.



The post-holiday party was a great success. It was felt that a club family cookout would be a good idea to be held at Watson Lake. The club would provide drinks, hamburgers, and hot dogs. The members will bring dishes to share. A few members will be asked to volunteer to organize it.

The monthly programs are set until June. Other programs were discussed.

Statehood Day Station at Sharlot Hall Museum will be on February 14. A few members will be asked to help out.

Copies of the YARC roster will be emailed out to the members. Copies will be available at the meeting for those who don't have internet access.

Some people are unable to get to the meetings since they can't drive at night. We will try and set up carpools for

these members. If members will submit their names, other members can be paired with them and provide transportation on meeting nights.

The Meeting was adjourned at 1840.

Respectfully submitted,

Pat, K7DUC

Secretary

Minutes of February 1, 2007 General Meeting

Terry, KB7TRE called the meeting to order at 1900. The Pledge of Allegiance was recited and members introduced themselves.

Visitors: Vi Hughes; Lois Diddams; Ault Brouner; Jan Nelson; Jack Nelson; Leandra Force, and Jan Halgunseth.

New Members: David Morrow, KD7YEG. A motion to vote in the new member was made by John, WB9VGJ and seconded by David, K6UWV. The applicant was voted in by the membership.

Meeting Minutes: A motion to approve the General Meeting minutes of January 4, 2007 was made by John, WB9VGJ and seconded by Lloyd, WA6ZZJ. The General Meeting minutes were approved. A motion to approve the Board Meeting Minutes of Jan.4, 2007 was made by Ken, WA6AQK and seconded by John, WB9VGJ. The General Meeting Minutes were approved.

Treasurer's Report: Patti, KD7VBG gave the Treasurer's Report. The previous balance was \$3006.58 and the current balance is \$3097.02.

As was decided last year, \$1000 will be going into the repeater fund from the general fund, along with \$2 from each renewal and new member.

A motion to approve the report was made by Jim, N5RO and seconded by Pete, K6VVR. The Treasurer's Report was approved.

Committee Reports:

- **ARES/RACES/Public Service:** Lloyd, WA6ZZJ said that an ARES/RACES training meeting will be held on Feb. 3rd. The topics will be 1) WinLink 2000, 2) A packet refresher, and 3) Airmail (a WinLink e-mail program). The first Public Service event will be the Whiskey Row Marathon, on Saturday May 5.

The biggest news is that approval has come through from the Department of Homeland Security, for a new ARES/RACES communication vehicle. The old vehicle will be refurbished and be located in Verde...probably at the Public Communications building in Cottonwood.

- **IRLP:** Jack, W7JLC reported that the IRLP continues to work well. Usage has picked up.

The scheduled course for technicians at Yavapai College will be cancelled. Jack will give free technician, general, and extra class classes at a later time.

- **Patches/Shirts/Badges:** Patti, KD7VBG has club patches for \$3.00; Dick, W6CCD has club shirts for \$19 for all sizes, except for XXL which are \$21. Name and call sign add \$2 to each, and Bob, WB6ODR has badges for \$5.75.
- **VE Testing:** Lloyd, WA6ZZJ stated that testing will be taking place on February 24, March 9, and March 30 at the Jeep Posse building.
- **Elmer/Technical Specialist:** Neil, KA7JAS said that everything had been taken care of.

Old Business:

- Post Holiday Party was a great success and prizes were won by all.

- Swap meet with VVARA will be held June 2, 2007 at Granite Mountain Middle School. Volunteers were requested to help.
- Joint Field Day/BBQ with VVARA will be held on June 23/24 at the top of Mingus Mountain. Bob, KC8BOB will be the liaison for our club and Steve, KC7TIL will be the liaison for the other club. Terry will also be assisting.
- Special Event Station will be at Sharlot Hall Museum, at the telegraphy display, on February 14. Students from the Granite Mountain Middle School ham radio club will participate, and members are asked to assist.

New Business:

- **HB 2595: Amateur Radio Restrictions:** John, WB9VGJ presented a bill that is proposed in the Legislature, so that reasonable height and dimensions for Amateur Radio antennas shall be allowed in our neighborhoods. Members are asked to contact their legislators and committee members. The information will be e-mailed to the members.
- **Club Family Cookout:** Terry proposed that there be a Family Cookout at the Watson Lake Ramada. Fred, N7PJN; David, K6UWV and John, W5VJH will spearhead the Cookout. This will be held in July or August.
- **Club Rosters:** Rosters will be e-mailed to those able to receive them. Paper copies will be available to those without e-mail at the next meeting. Rosters will be issued quarterly.
- **Rides Needed:** We have some members who are unable to drive to meetings at night. We will attempt to match up drivers with riders.

Announcements:

- Jack, W7JLC stated that a balloon flight was conducted last week for State universities, and a lot of interest was generated. Another flight was planned for middle schools and high schools.
- Tonight's Program will be given by Bob, WB6ODR. He will present "The Route to the Rose Bowl Parade".
- Rowle Simmons will present "The history of communications in Prescott" at our next meeting.

A motion was made to adjourn the business meeting by John, WB9VGJ and seconded by Ken, WA6AQK. The meeting was adjourned at 2000 MST.

The 50/50 drawing was won by Jim, N5RO, who won \$33.00.

Respectfully Submitted,
Pat, K7DUC

Have a Question or Need a Hand?



If you have a radio-related question or need help on a technical matter, technical assistance is available from knowledgeable club members.

Contact **Neil Vince, KA7JAS** at:

(928) 775-2158 or
ka7jas@arrl.net

Treasurer's Financial Reporting Sheet

Club / Group Name: **YARC**
 Reporting Date: **Feburary 2007**

By **Patti Halgunseth, KD7VBG,**
 Treasurer



Members Name	Dues Paid	Repeater Fund	Donations	Prize Money Paid Out	Net Cash In per Member
David J. Morrow/N-KD7YEG	\$18.00	\$2.00			\$20.00
Terry Pemberton/R-KB7TRE	\$18.00	\$2.00			\$20.00
Sandy Pmberton/R-KD7GJH	\$0.00				\$0.00
Lee R. Shoblom/R-K6ADA	\$18.00	\$2.00			\$20.00
Bob Thompson/R-KC8BOB	\$18.00	\$2.00			\$20.00
Starla Thompson/R-KE7DTS	\$0.00				\$0.00
Alyssa Thompson/R-KE7DTT	\$0.00				\$0.00
Kristi Thompson/R-KE7DVA	\$0.00				\$0.00
Lloyd Halgunseth/R-WA6ZZJ	\$18.00	\$2.00			\$20.00
Cheryl Severance/R-KD6FCZ	\$18.00	\$2.00			\$20.00
Loraine Severance/R-KD6FDA	\$18.00	\$2.00			\$20.00
Pete Hasnik/R-KE7FMJ	\$18.00	\$2.00			\$20.00
John Gross/R-W5VJH	\$18.00	\$2.00			\$20.00
Edward Yurkienicz/R-XXXXX	\$18.00	\$2.00			\$20.00
Ken Severance/R-WA6AQK				\$20.00	\$0.00
Albert Crook/R-KD7MTJ				\$20.00	\$0.00
Jeff Hanna/R-WB7RFY	\$18.00	\$2.00			\$20.00
John Gross/ARRL Renewal	\$36.00				\$36.00
Richard Bozeat/ARRL New	\$36.00				\$36.00
John Gross/Repeater 50/50		\$4.00	\$66.00		\$4.00 \$66.00
Jim Clark - N5RO				\$33.00	(\$33.00)
2 Patches/Prizes				\$6.00	\$0.00
Total:	\$270.00	\$26.00	\$66.00	\$79.00	\$329.00

Miscellaneous Club Expenses	Cash Out	Check Number
John Broughton/Prizes	\$149.61	920
ARRL/John Gross	\$34.00	921
David Passell/Refreshment	\$10.69	922
Patsy Oliver/Supplies(ARCA)	\$64.72	923
Insty Print	\$30.06	924
Repeater Fund	\$1,026.00	
Total:	\$1,315.08	
Repeater Fund	\$1,026.00	

Club Funds Summary	Totals
Starting Balance	\$3,097.02
Net Expenses	\$1,315.08
Net Income	\$329.00
CK - Balance	\$2,110.94
Cash Flow = Ne	(\$986.08)

This Month's Featured Ham

By Pat Oliver, K7DUC



Patti Halgunseth, KD7VBG

Patti first got her license at the Scottsdale Hamfest in March 2003, with much encouragement from her dad, Lloyd, WA6ZZJ. She will take the test for General soon. She is also planning on learning code at some future time.

She operates now on 2 meters and 70 cm, but will be on HF when she has her General ticket. She obtained an HF rig from her parents' neighbor who was no longer on HF, and will need to put up an HF antenna when she upgrades. Fortunately, she has a very nice landlord who allows her to put up antennas.

While in her last club, she participated in field day contests.

Her most memorable VHF contacts were with friends from Prescott and also with friends from work in California.

Patti has built speakers and also has put up an antenna for 2 meters.

She has had no memorable radio-related mail, but she did enjoy receiving her FCC license.

While in her former club, she was on the Board of Directors for three years. Since moving to Prescott, Patti is involved in ARES/RACES and also is Treasurer for our club.

Her equipment includes Yaesu handhelds, a Yaesu FT-90 in her Jeep, an FT-1500 that can be put into her company car, and an FT-840. She also has an ICOM which is borrowed.

She feels the club is progressing well. We are getting more involved in community events and a hamfest with another club. The programs at the club meetings are also good. She did enjoy the party in January, and is looking forward to the barbeque this summer.

Patti has worked in the photo industry for 24 years, in its various aspects. She now travels throughout Arizona as a Senior Technical Service Representative for Noritsu, troubleshooting and fixing photographic processing equipment.

We are very fortunate to have such a young and energetic member in our club. She is very valuable to us. ■

Buying Lead Acid Batteries

Reprinted from the PARA Newsletter

If you can get a used sealed lead acid battery for free, then go for it. But if you have to pay for a new one, you'll want to get the freshest battery you can buy. Determining the age of new batteries can be a challenge. If the battery has sat around off a charger for more than six months it may be starting to sulfate. Sulfating can be caused by excessive water loss from the electrolyte from standing for a long time. It occurs when lead sulfate cannot be converted back to charged material.

Manufacturers date code their batteries by stamping a code into the case or by affixing a label. Many use a combination of alpha and numeric characters to indicate the date of manufacture using alpha characters for the month and digits for the year. For instance, "A3" would mean January, 2003, "B3" would be Feb., 2003 etc.

Usually they skip the letter "I". ■

March Program Speaker

Rowle Simmons, Mayor



Rowle Simmons will present "The History of Communications in Prescott".

Rowle is no stranger to Prescott civic affairs. While running his electronic communications business, he has given volunteer time to many community organizations.

Rowle has three grown children. He and his wife enjoy exploring in their motor home, hunting and fishing. ■



ARES/RACES....

This month's article begins in Fort Dodge, Iowa where I have just picked up the new Yavapai County ARES/RACES / Emergency Management Communications Vehicle. It was custom built by Dodge Industries in Humboldt, Iowa. The vehicle is a 24' Mobile Command Post with at least three (3) operating positions in the front and office space in the rear with a fold down table and bench seating. There is a 7 KW on board generator, roof air conditioner, side awning and a 25' push up mast mounted on the rear.

Radio equipment installed will consist of four (4) dual band (2 meter/70 centimeter) transceivers, one with built in packet TNC; One (1) HF transceiver; At least one each VHF and UHF Public Safety transceivers. One laptop computer, one 20" LCD television for satellite TV and use as a computer monitor/projector. The radio equipment will be installed by ARES/RACES personnel when it gets to Prescott.



Left: Lloyd receiving keys to Communications Vehicle.

Below: New ARES/RACES EMC Communications Vehicle.



We have already had our first wild land fire of the season near the Pine Flats subdivision southwest of Mayer. Fortunately it was held to less than 1 acre. If we don't get considerably more moisture than we have, it could prove to be another extreme fire season coming up.

The Interagency Fire and Emergency Management Group (IFEMG), of which ARES/RACES is a member, will be holding a planning meeting in March to update plans for 2007.

There will also be a multi-agency fire exercise the last part of March. ARES/RACES will be involved in this also. It will be held in the same area as last year, which is the Prescott Pines Camp area south of Prescott.

Continuing from last month with Radio Procedures During Emergencies...

21. Chewing gum, eating and other activities with items in the mouth tend to clutter up the clarity of your speech. **Don't.**
22. Avoid angry comments on the air at all costs. Obscene statements are not necessary and are out of place in all communications.
23. Sound alert. Nothing destroys confidence as much as a bored operator or weary sounding radio operator. If you are tired, get a relief operator.
24. During an incident, communications suffers enough confusion without wisecracks and jokes. Amateur Radio may be a hobby to enjoy, but when providing emergency communications you must remember that it is a serious business and should be treated as such at all times.
25. Stay off the air unless you are sure you can be of assistance. It does no good to offer advice, assistance, comments or other input to a net unless you can truly provide clarification. It is better to remain silent and be thought a fool than to open your mouth and remove all doubt!
26. Always know your location. If you are mobile or portable and moving around, always keep a sharp lookout for landmarks. You must be able, if called upon, to accurately describe your location at any time.
27. On VHF and UHF frequencies, particularly when on the fringes of communications look for a receiving 'hot spot' site and use it. Don't walk around while in a communications fringe area. Repeaters have much more power than your handheld. Even if you have a good signal from a repeater, it does not mean you are getting into the repeater.

28. If you check into an emergency net, you must monitor on the net frequency. If you must leave the frequency, ask permission from the NCS. Report to the NCS when you return to the net. It is vital that the NCS know the availability of each station on the net and it is up to YOU to keep the NCS advised.
29. Net Control Stations frequently are very busy with work that is not on the air. If you call the NCS and do not get a reply, be patient and call again in a minute or two. If you have an emergency, say you have "Emergency traffic" after you identify yourself when you call the NCS. Be patient with the NCS and other stations.
30. A mobile radio (that is one that is mobile, portable or airborne) has priority over any other type of radio station AND other forms of telecommunications. This is true in all radio services. Fixed station operators must recognize that a call from a mobile station takes precedence over telephone calls, personal conversations, and other activities. Respond promptly to any call from a mobile station - - even if it is to advise the caller to standby.

In conclusion, these few rules and suggestions are intended to help you become a better operator - whether Public Safety or Amateur Radio. Analyze your present operating methods and try to polish each element so your participation in radio communications is professional and worthwhile. Your Net Control Station operator may have the final authority but good, clean operating methods and procedures almost make a net run without an NCS.

Public Service Communications....

The Whiskey Row Marathon is our next scheduled Public Service Communications event. It is on Saturday, May 5, 2007 and will be an early morning event with some stations being on the air by 05:15. I will have a sign up sheet for this event at March and April YARC meetings. Please plan to sign up for this event. Our communications is so valuable to the YMCA that the Yavapai Amateur Radio club is considered a major sponsor. Providing Public Service Communications is also a very good way to practice our emergency communications capabilities. 18 to 20 operators are needed for the event, but if we have more I can double up operators on some of the assignments.

Lloyd, WA6ZZJ

Battery Boost

By David Passell, K6UWV

If you use handhelds or other devices that require AA or AAA batteries I suggest you look into the new Duracell Power Pix batteries with NiOx technology.

NiOx is a chemically different battery from the conventional Carbon-Zinc, Alkaline, Lithium, Nickel Cadmium, or Nickel Metal Hydride batteries.

The non-rechargeable Alkaline* and Lithium batteries provide 1.5 volts (some lithiums are 3 volt). The rechargeable Nickel Cadmium, or Nickel Metal Hydride batteries provide 1.2 volts. The package labeling for the non-rechargeable NiOx** batteries states the voltage at 1.5. However; the chemistry of these batteries actually provides 1.7 volts.

This means that if you use six of them (as in an HT 202 pack) you will get 10.2 volts (vs 9 or 7.2 volts or other types). The NiOx batteries also claim a 2X longer life than Alkaline. Consumer Reports says that with Cameras with intermittent heavy drain for flash this is true. Units with steady current show not much difference. (I also wonder about the higher voltage with certain equipment such as TV remotes, etc.) A typical handheld for transmit/receive operation would fall under the intermittent heavy drain category.

I put them in mine, and it made a difference in output power. Try some.

* Alkaline or Carbon-Zinc batteries can be recharged limited times with some specialized chargers.

**Same type charger did rejuvenate discharged NiOx but only to about 1.5 volts. NEVER attempt to recharge a Lithium battery (or so I am told). ■

Plan to Join the ARRL or Renew Membership ?

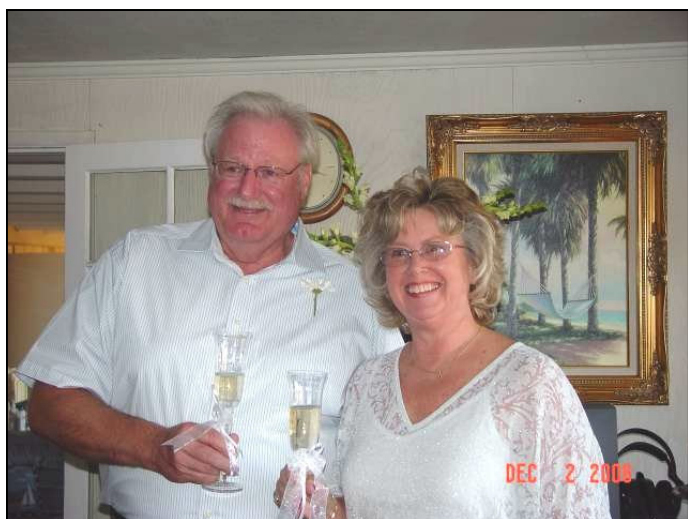
Ask our Treasurer for a special ARRL Club Membership Application or download the appropriate application from the YARC Website. Complete the Application and return it to the Treasurer with the application fee.

There is no extra cost to you, and our club gets to retain a portion of the dues.

The Winsystem Repeater Intertie Comes To Prescott 445.300 - pl 100



Submitted by Douglas, KB6TWC



Shorty, K6JSI and XYL, Susan

Our new member to YARC is Shorty, K6JSI, who is the owner and operator of the WIN System, the Western Intertie Network, a rather large linked repeater system, currently with 44 linked repeaters in the System, covering 13 States and three Countries linked together full-time. The WIN System has several remote bases, as well as being heavily involved with the IRLP (Internet Radio Linking Project) with over 2,100 Nodes worldwide. The IRLP allows the WIN System to talk with other amateur repeaters on every continent in the world. <http://www.irlp.net/>

For more information online about the Winsystem go to <http://www.winsystem.org/>

Shorty is a contractor in the telecommunications field. He is also a consulting engineer and frequently works in very exciting electronics and radio projects. He also sells manufactured and modular homes and also builds swimming pools.

Shorty, K6JSI and his wife Susan, K6SLS, live in Vista, near San Diego, California. Shorty and Susan were married last December.

Shorty was first licensed in 1953 as a Novice Class amateur (at age 12), as KN6JSI, but quickly upgraded to General Class in the summer of 1954, and got rid of the "N" in his Call Sign. Over the past 54 years Shorty has been active on CW, AM, and SSB, but since 1965, when he built his first UHF repeater and 2-meter remote base, his inter-

ests are mainly in VHF & UHF repeaters, and remote bases from high-level mountain tops, and staying on the cutting edge of technology in amateur radio, like the IRLP.

Shorty enjoys the Prescott area and plans on visiting here more often with his wife Susan in their new 5th wheel travel trailer.

Be sure to check out the WIN System and say Hello to Shorty and Susan. ■

Editor's Note: The Prescott WIN system Repeater has been added to the AREA REPEATERS table on Page 12.

New Arizona Ham Radio License Plate Now Available



There is a \$25 initial application fee/ \$25 annual renewal. Applicant must have a valid amateur operator license from the Federal Communications Commission. The plate number is the FCC assigned call sign.

Special Plate Application (form # 96-0143) is required. Also available with a disability symbol.

To obtain the Application on-line, click on the following link:

<http://www.azdot.gov/mvd/vehicle/mvdplate.asp>

Complete the form and include a copy of your license. Don't forget to add \$2.40 for postage. ■

From "The ARRL CLUB NEWS" and The American Radio Relay League:

Multi Media Library

The ARRL Multi Media Library www.arrl.org/multimedia has lots of PowerPoint presentations that can be used to introduce hams to many operating modes. Some of these programs include downloadable document files that can be printed and distributed as part of a training session or presentation.

These files are free to download and include many topics such as: Introduction to HF operating, DXing, contesting, HF mobile and many others. Some of the authors include Ward Silver, N0AX; Dean Straw, N6BV; Mark Spencer, WA8SME; Steve Ford, WB8IMY.

Cool First Contact Award

What better way to commemorate a ham's first QSO than with a First Contact Certificate? If you make a contact with a ham and he/she tells you that you are his or her first contact, then send them a certificate. Send a certificate for a first contact on HF. ARRL always has First Contact Certificates available to anyone requesting them. See <http://www.arrl.org/FandES/ead/award/certificate/>. Include your mailing address when sending your request to clubs@arrl.org ■

For you diet coke, etc drinkers, here is an item that might be of interest:



DEAR DR. DONOHUE:

With the bombardment of nutritional information, I have become a reader of all food labels. On a few labels I have noticed a warning that there is phenylalanine in the food. What does that mean for me?--J.D.

ANSWER: Some infants are born with a condition called PKU, phenylketonuria (FEE-niL-KEY-tone-YOUR-ee-ah). They don't have the enzyme that converts the amino acid phenylalanine into other substances. The blood level of this amino acid rises. As a consequence, brain development greatly slows, which leads to mental retardation.

If the diagnosis is made soon after birth, a diet that excludes phenylalanine permits normal brain growth. Screening for PKU is routinely done on all newborns. Affected children usually stay on the diet for the rest of their lives.

Submitted by David Passell, K6UWV, Refreshment Chairman.

A Guide for the Ham Radio Mobileer

BE AWARE OF YOUR ENVIRONMENT

Quick recognition of the drivers around you may make the difference between happy mobile hamming and a catastrophe. A quick glance at the other driver will tell you:

One hand on the wheel, one hand on the horn:
Chicago

One hand on the wheel, one finger out the window:
New York

One hand on the wheel, one hand on the newspaper, foot solidly on the accelerator:
Boston

One hand on the wheel, cradling a cell phone, brick on the accelerator:
*California. With gun in lap:
L.A.*

Both hands on the wheel, eyes shut, both feet on the brake, quivering in terror:
Ohio, but driving in California.

Both hands in the air, gesturing, both feet on the accelerator, head turned to talk to someone in the back seat:
Italy

One hand on latte, one knee on the wheel, cradling a cell phone, foot on the brake, mind on the game:
Seattle

One hand on the wheel, one hand on hunting rifle, alternating between both feet being on the accelerator and both on the brake, throwing a McDonald's bag out the window:
Texas (city male)

One hand on wheel, one hand hanging out the window, keeping speed steadily at 70mph, driving down the center of the road unless coming around a blind curve, in which case they are on the left side of the road:
Texas (country male)

Four wheel drive pickup truck, shotgun mounted in the rear window, beer cans on the floor, squirrel tails attached to the antenna:
West Virginia

Two hands gripping the wheel, blue hair barely visible above window level, driving 35 on the interstate in the left lane with the left blinker on:
Florida ■

World Ham Population Ratios Pop Out

Reprinted with permission from Pablo Veal, N0AH and eHam.net

On a recent visit by my father in law, F0EFQ, we got to discussing the declining ham population in France. When I compared a ratio of hams to the number of people in his country, it came up to be 2,495 people for every one ham radio operator.

In the U.S.A., that ratio was a lot better at 434:1. What a huge difference. But this U.S.A. number was not close to that of Japan's at 94:1.

Math here is (127,333,000pop/1,350,120hams) That is an amazing number. Putting it into football perspective, if your team were playing a home game with 80,000 fans, you would have over 850 JA operators with only 184 U.S.A. operators in attendance.

Would we even have contests if it were not for the JARL? Who would we work for points? However, it gets even more interesting from here.

Germany has a ratio of 1,044:1 while the U.K. is lower at 954:1. That was a surprise for me but the German ham population is growing well according to Internet research. When I researched my old contest logs, I found DL calls more common than the G's. (Brain jam.)

Spain is at 662:1 while Italy is almost three times this at 1,889:1. When I lived in Wyoming working pile-ups, I thought everyone on the radio was from Italy and I never heard an EA. Hum....

Brazil is 5,744:1 while Argentina is at 1,140:1. I love these operators on 10 meters when band conditions are dead in a contest and all you have is the America's to work. These ratios are great considering you have populations of 184,101,000 and 37,214,800 respectively.

Our neighbor to the north, Canada, had a ratio of 696:1 while Australia was at 825:1. I thought that they would be somewhat closer to that of the United States but they were not too far off.

Two big numbers really stood out in digging these numbers up on the Internet. Russia was at 3783:1. I thought the ratio number would be a lot higher due to the developments in the country over the last several years. But Russia is a lot smaller than I thought at only 143,782,300 people. The approximately 38,000 hams are very devoted from my experiences. How many zones do they still cover? -- And with so few hams? I can only see their ratio going down over time.

The last country in my research made me think. I would have to shake hands with over 72,000 people before I had a chance to meet one ham. And this country has around 15,000 operators at their best guess. But with a population of 1,080,264,300, India is a good zone area and country to work on for your 5BWAZ and 5BDXCC.

My statistics were gathered by sites found on Google and attempts were made to find the most recent population census and ham license information provided by third party resources.

One other tidbit, I tried to avoid countries that only reported licensed stations versus the number of licensed hams. Many hams operate from club stations in many countries and are not always counted in accurate numbers. Interesting eh?

For links to a good ham population site, go to: <http://www.qsl.net/vu2msy/HAMPOP.htm>

To sum things up, I believe we need to look at ratios as much as we do the numbers. For example, if someone told you that France had 23,698 hams, you might think that was fine. But compare the U.S.A. ratio to that of France (434:1 versus 2,495:1) and you see France, being a modern industrial country, might have a situation.

Other countries, with high ratios show excellent potential for growth such as Brazil and continued growth in DL.

Using ratio comparisons can be a viable means for modern countries to measure their ham population's health. -- It can also be used by any country to track the growth of its ham population. ■

Editor's Note:

The above ratios provide a general comparison between countries. However, due to countries using different methods to arrive at their radio amateur population, the data should not be considered precise.

Amateur radio exams are more difficult in some countries, and many classes of licenses exist, making it difficult to compare "apples with oranges".

Data from an interesting article "The Enigma of Japanese Call Sign System" at <http://www.motobayashi.net/callsign/enigma.html> show the Japanese 94:1 ratio achieved in 1995 no longer is true. Updated figures on December 31, 2006 show a decline of JA hams to 533,810, which is a current ratio of 238:1.

CQ DX de YARC – MARCH 2007

By Dick Diddams, W7QHE

DATE		DXCC ENTITY	CALL	QSL VIA	REPORTED BY	INFORMATION	<p style="text-align: center;">-- MONTHLY HIGHLIGHTS --</p> <p style="text-align: center;">YK1BA - SYRIA</p> <p style="text-align: center;">WW 73/100 - North America 45/100</p>
START	END						
NOW	Mar08	Canary Islands	EA8	IK1PMR	425DXN 0127	By EA8/IK1PMR EA8/IZ1GLO fm AF-004; CW RTTY; holiday style	<p>Saad Mahaini, N5FF will be going to Damascus, 9 April and expects to be on the air until 27 April. This is NOT a DXpedition so his activity will be "spotty." Saad hopes to operate 3 or 4 hours a day and will spend most of his time on 80-, 40- & 30-meters. Most probable operating times are 2000-2300Z or 0200-0500Z and possibly 1200-1400Z. He operates SSB/CW/RTTY. QSL to home call.</p> <p>The latest IARU Amateur Radio statistics lists 1-club station, 6-individual operators and a total of 12 licensed amateurs. Syria, needless to say, is very difficult for a "foreigner" to be licensed and operate. Of the 12 "licenses" operators, none are considered "active".</p> <p>Following the breakup of the Ottoman Empire during World War I, France administered Syria until its independence in 1946. The country lacked political stability, however, and experienced a series of military coups during its first decades. Syria united with Egypt in February 1958 to form the United Arab Republic, but in September 1961 the two entities separated and the Syrian Arab Republic was reestablished. In November 1970, Hafiz al-ASAD, a member of the Socialist Ba'th Party and the minority Alawite sect, seized power in a bloodless coup and brought political stability to the country. In the 1967 Arab-Israeli War, Syria lost the Golan Heights to Israel, and during the 1990s Syria and Israel held occasional peace talks over its return. Following the death of President al-ASAD, his son, Bashar al-ASAD, was approved as president by popular referendum in July 2000. Syrian troops - stationed in Lebanon since 1976 in an ostensible peacekeeping role - were withdrawn in April 2005. During the July-August 2006 conflict between Israel and Hizballah, Syria placed its military forces on alert but did not intervene directly on behalf of its ally Hizballah.</p> <p>The size of Syria is 185,180 sq km, a little larger than North Dakota. The <i>lowest point</i>: unnamed location near Lake Tiberias -200 m and the <i>highest point</i>: Mount Hermon 2,814 m. The population is 18,881,361 and in addition, about 40,000 people live in the Israeli-occupied Golan Heights - 20,000 Arabs (18,000 Druze and 2,000 Alawites) and about 20,000 Israeli settlers (July 2006 est.)</p> <p>All males must serve 30-months in the military (active duty). All totaled, they have over a 3,000,000-man trained military and several million of "x" military.</p> <p>April Newflash! DXpedition to Huang Yan Dao. A multi-national team led by W6RGG will operate from Scarborough Reef for ten days in late April 2007. The web site is http://www.bs7h.com</p>
NOW	Mar01	Gambia	C56	ON7YK	ON7YK 0131	By ON7YK; 80 40 20 17 10m; SSB; 100w; dipole; eQSL	
NOW	Mar13	Senegal	6W	F6HMJ	425DXN 0127	By F6HMJ as 6W/F6HMJ; 80-10m; CW SSB RTTY	
NOW	Mar03	Norfolk Island	VK9N	DJ2MX	DL1MGB 20061217	By DJ7EO fm OC-005; 160-10m, focus on low bands; CW SSB RTTY	
NOW	Mar06	Guadeloupe	TO6T	F6HMQ	425DXN 0217	By F6GWV F6HMQ	
NOW	Mar07	Dominican Republic	HI3	IK4QJF	425DXN 0210	By IK4QJF as HI3/IK4QJF fm NA-096	
NOW	Mar02	Bahamas	C6A	LotW	W2IRT 20061220	By W2IRT/C6A N2YTF/C6A; mainly 40 20 17m; SSB CW RTTY.	
NOW	Mar18	Dodecanese	SV5	DJ7RJ	AA1M 0207	By DJ7RJ fm Kos Is; HF; SSB CW	
NOW	Mar25	St Maarten	PJ7	W8EB	W8EB 0110	By PJ7/W8EB PJ7/W8DVC; 160-10m; QRV as PJ7B in ARRL DX Phone	
NOW	Apr30	Guinea-Bissau	J5UAP	LotW	HA3AUI 0131	By HA3AUI; all bands; mainly digital modes; QSL direct, HA Buro, or eQSL	
NOW	Apr30	Senegal	6W2SC	LotW	HA3AUI 0131	By HA3AUI; all bands; mainly digital modes; QSL direct, HA Buro, or eQSL	
NOW	Mar08	Sao Tome	S92	CT1HHP	OPDX 0219	By CT1HHP; 40 20 15 10m, perhaps 17m; RTTY PSK31; callsign tentative	
NOW	Mar12	Samoa	5W0RE	HA8IB	425DXN 0113	By HA9SDA HA9RE fm OC-097; 160-10m; CW SSB RTTY	
NOW	Mar02	Falkland Islands	VP8		EA1KY 0212	By K9PET/VP8DJU, fm SA-002; 40-15m; CW SSB PSK	
NOW	Mar12	Egypt	SU8DLH	DK2CL	F5NQL 0219	By the German Lufthansa ARS; HF; CW SSB + digital; QSL via DL1BDF	
Mar03	Mar17	South Cook Islands	E51PJT	G3PJT	425DXN 0210	By G3PJT fm Raratonga (OC-013); mainly CW; QRV for RSGB	
Mar03	Mar23	Senegal	6W	Home Call	DL7CM 20061216	By DM2AYO DL6CT DL7CM as 6W/homecall fm Cap Skirring	
Mar04	Mar22	Guinea Bissau	J5UAR	DL7CM	DL7CM 20061216	By DM2AYO DL6CT DL7CM fm Varela (IK12qh); 160-10m; CW SSB RTTY	
ARRL International DX Contest, Phone (Mar 3-4)							
Mar06	Mar16	Aruba	P4	Home Call	AA1M 0207	By W1USN W1SSR; HF; SSB PSK CW	
Mar08	Mar11	Svalbard	JW	IN3SAU	425DXN 0210	By IN3TCH IN3SAU as JW/homecall fm Longyearbyen (EU-026); low bands	
Mar08	Mar12	Brunei	V85NL	JA4ENL Direct	OPDX 0129	By JA4ENL; all bands, including 160m; mainly CW	
Mar08	Mar22	Madeira	CT3	Home Call	425DXN 0210	By DL3KWR DL3KWF as CT3/homecall fm AF-014; mainly CW.	
Mar09	Mar20	Spraty Islands	9M4SDX	9M2TO	OPDX 20060911	By 9M2KT 9M2CF 9M2TO + JA ops; all bands; all modes; 2-4 stns, 24x7 HRS	
Mar13	Mar21	East Malaysia	9M6	Home Call	SM5GMZ 0216	By SM5GMZ; focus on low band CW	
Mar14	Mar22	Jersey	MJ	Home Call	425DXN 0210	By K8PT K3PLV as MJ/homecall; 160-6m, mainly low bands; CW SSB RTTY	
Mar14	Mar27	Guinea Bissau	J5BI	F6BUM	425DXN 0127	By F6BUM fm Bubaque Is (AF-020); 40-10m; SSB; 100w.	
Mar16	Mar19	Cambodia	XU7	See Info	JA1ELY 0208	By XU7PPH XU7EGZ XU7DFM; 160-6m; CW SSB.	
Mar16	Mar19	Guam	KH2	Home Call	JA1ELY 0216	By JK2VOC JA2BNN as KH2/JK2VOC and KH2/JA2BNN	
Mar16	Mar22	Marshall Islands	V73KN	JK1QLR	OPDX 0219	By JK1QLR fm Majuro Is (OC-029); all bands; QSL OK via JARL Buro or direct	
Mar16	Mar25	Swaziland	3DA	EI7CC	EI4DJ 20061226	By EI7CC EI8CE EI4DJ EI4JJB EI3GV EI2CA; QRV for CQ WPX SSB;	
Mar18	Mar21	St. Maarten	PJ7	PY2AA	425DXN 0210	By PY1WAS as PY1WAS/PJ2 fm NA-105; 40-10m; CW & SSB;	
Mar19	Mar25	Antigua	V25	Home Call	W4OWY 20061222	By W9OP W4OWY as V25WY and V25OP; 160-10m; SSB CW RTTY	
Mar19	Mar26	Bahamas	C6AWN		OPDX 0115	By W1CGT fm South Andros + New Prov. (NA-001); 40 20m	
Mar22	Mar27	Kermadec Islands	ZL8	ZL1AMO	425DXN 0210	By ZL3CW ZL1GO as ZM8CW and ZL8GO (probably) fm Raoul Is (OC-039)	
Mar22	Apr02	Agalega & St Brandon	3B6	See Info	VA3PL 0126	By SP9MRO (QSL via SP9PT) fm Agalega Is (AF-001); 160-10m.	
CQ WPX SSB (Mar 24-25)							
Mar29	Apr21	Swains Island	N8S	YT1AD	425DXN 20061028	By YT1AD/K3LP; all bands and modes	

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, N7PJJ

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+	100.0	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				
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	KB6TWC
448.475-	100.0	Flagstaff-Elden	ARA	Yes			
448.500-	100.0	Prescott	KB6TWC	Yes	RB to White Tank 146.940		E-mail owner for instructions
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 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

