



# YAVAPAI SIGNAL



The Yavapai Amateur Radio Club • Prescott, Arizona • DM-34 • Volume 22– No.1 • January 2007

# HAPPY NEW YEAR

## New Officers Elected



**Terry Pemberton, KB7TRE**  
President



**Patti Halgunseth, KD7VBG**  
Treasurer

Terry, KB7TRE and Patti, KD7VBG were unanimously elected at the November meeting. Beginning in January they will serve for a term of two years. Both will make great officers, and we are fortunate to have them.

In accordance with our Bylaws, the terms of officers are staggered, with two officers being elected each year. Dick Hughes, W6CCD, Vice President, and Pat Oliver, K7DUC, Secretary, will continue their duties for one more year.

Also elected to the Board of Directors for an additional term of one year, are members-at-large Ken Severence, WA6AQK, Richard Bozeat, KE7DTR, and Walter Schuman, KF6SPS. Our past President, John Broughton, WB9VGJ will serve on the Board, along with the four officers to complete our eight member Board.

Many thanks to our outgoing President, John, WB9VGJ and Treasurer, David, K6UWV, for the great job they have done. ■

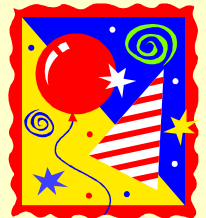
## YARC After-Season Party

Where: China Buffet  
(by Costco)

When: January 20, 2007

Time: Starts at 5:00 P.M.

Cost: \$8.99 per person,  
plus tax and tip, or 10% less if you  
are 60 or older. Separate Checks.



Please plan to attend. There will be lots of door prizes, good food, and great company. For reservations contact Dick Hughes, W6CCD at:

w6ccd@K7yca or call 759-0337.

Dick and Vi Hughes

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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 Nov.....99  
Gain/Loss.....+2  
1st Thurs. in Dec.....101

### YARC Officers for 2007

#### President

Terry Pemberton, KB7TRE  
kb7tre@cableone.net

#### Vice President

Dick Hughes, W6CCD  
richard@rahughes.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

## Minutes of December 7, 2006 Board Meeting



A Board Meeting was held at 1815. Present were John, WB9VGJ; Pat, K7DUC; Dick, W6CCD; Walter, KF6SPS, Richard, KE7DTR, and Ken, WA6AQK.

Certificates were signed for members receiving them.

Obtaining speakers for the future would be handled by Ken, Richard, and Walter, due to lack of Program Chairman volunteers.

Tammy Phillips will meet with her group and request a bill for electricity for the repeater be sent to the YARC Treasurer for payment.

The President and Treasurer will meet with their new counterparts for transition.

Prizes for the raffle at the party were discussed.

A communication was received indicating that members must keep their mail-

ing address current, on their FCC license. Revocation of their station license or suspension of their operator license may result when correspondence from the FCC is returned as undeliverable, because the grantee failed to provide the current mailing address. This will be discussed at the General Meeting and also put in the Yavapai Signal.

The Meeting was adjourned at 1840.

Respectfully submitted,

Pat, K7DUC  
Secretary

## Minutes of December 7, 2006 General Meeting

John, WB9VGJ called the meeting to order at 1900. The Pledge of Allegiance was recited and members introduced themselves.

**Visitors:** Vi Hughes; Hank Riviere, W4ZBP; Rebecca Riviere; Eric Nelson, KE7JKT; Ken Line, W7MHW; Lois Diddams; Mary Broughton, and Brian Rackham, WA7ZHJ.

**New Members:** Bill Burkett, KE7IXS; John Hanny, KB7CH; John Miller, KD7TJZ and Ron Webber, KE7HWP. A motion to vote in the new members was made by Bob, WB6ODR and seconded by Lloyd, WA6ZZJ. The applicants were voted in by the membership.

**Meeting Minutes:** A motion to approve the Board minutes of Nov. 2, 2006 was made by Ken, WA6AQK and seconded by Richard, KE7DTR. The Board minutes were approved. A motion to approve the General Meeting Minutes of Nov. 2, 2006, was made by Patti, KD7VBG and seconded by Bud, N7CW. The General Meeting Minutes were approved.

**Treasurer's Report:** David, K6UWV has been on vacation and does not have a completed report at this time. However, the combined

November/December report will be published in the next Yavapai Signal.

### Committee Reports:

- **ARES/RACES/Public Service:** Lloyd, WA6ZZJ said the Rails-to-Trails race went quite well. The help was appreciated. ARES members will get together after the first of the year and work on training.

Lee, KC7CBK, indicated that the Loop Challenge will be an event next year for which we will be asked to provide communications.

- **IRLP:** Jack, W7JLC reported two power outages in the last month. Jack has purchased a power supply to avoid the problem in the future. He indicated that the IRLP is being used frequently. A motion was made to reimburse Jack for the power supply to combat interruptions to the IRLP, by Bob, WB6ODR and seconded by Lloyd, WA6ZZJ. The motion carried.
- **Classes:** Jack will give another all day class, to be held on the last Saturday in January. The test will be on Feb. 10th. The class at Yavapai Community College will be first, a 2 week introductory course, followed by a 3 week, 12 hours, technician class.
- **Patches/Shirts/Badges:** David, K6UWV has club patches for \$3.00; Dick, W6CCD has club shirts for \$17, without a name, and Bob, WB6ODR has badges for \$5.75.
- **Parades:** Bob, WB6ODR stated that his group, entry #47, consisting of 12 members with their horses and carts, will be in the Rose Parade. Watch on HGTV, since it will be broadcast in its entirety without commercials.
- **VE Testing:** Mary, AB7NK, stated that in the past 2 months, 32 exams were administered. This was largely due to Jack, W7JLC and Bob, WB6ODR giving of their time and

holding ham classes. All but one who attended Jack's class passed their exams -- most with a 100% score.

Mary thanked the VE's who participated in the very successful licensing sessions this past year.

- **Elmer/Technical Specialist:** Neil, KA7JAS said that everything was taken care of.

### Old Business:

- **Post Holiday Party:** Dick, W6CCD stated that the party will be held January 20th at the China Buffet. He has 40 attendees signed up so far and will send around a signup sheet for others who wish to attend. Prizes will be provided, and members were also asked to consider donating items.
- **Blind Center Classes:** Bob, WB6ODR stated that more discussion will be needed.

### New Business:

- **Certificates:** Certificates of Appreciation were given to members who have done much for the club.

### Announcements:

- Jack, W7JLC gave some interesting information about the space shuttle scheduled to be launched.
- Pat, K7DUC stated that an e-mail had been received indicating that hams must keep their addresses current with FCC or risk losing their licenses.
- John, WB9VGJ announced that the 2007 net control signup sheet is full.
- FCC has changed 40M and 80M

bands to take effect on Dec. 15th. Go to [www.arrl.org](http://www.arrl.org) for information and to obtain a color band chart.

- Terry, KB7TRE said that you can contribute to schools and have the cost taken off one's Arizona income taxes. A variety of organizations within the school system could benefit from your donation.
- The Program tonight will be given by Lee, KC7CBK, on "installing ground rods".

A motion was made to adjourn the meeting by Terry, KB7TRE and seconded by Lloyd, WA6ZZJ. The meeting was adjourned at 1948.

The 50/50 drawing was won by Ray Stone, K6CMU, for \$30.00.

Respectfully Submitted,

Pat, K7DUC

Secretary

### Call sign Lookup Website

A very good call sign database server may be found at the University of Arkansas at Little Rock's website. It is an award winning server found at:

<http://callsign.ualr.edu/callsign.shtml>

It is able to find call signs and such with minimal input.

If you know someone's name, or only part of a name, you can type it in and find his or her call sign.

Very Handy -- try it!



## This Month's Featured Ham

By Pat Oliver, K7DUC



**John Broughton, WB9VGJ**

John got his Novice license in 1976. He had been involved with CB radio for a couple of years prior to this. His inspiration came from a gentleman he was interviewing for his job. John asked him about the antennas he had noticed around his house. He was invited in and saw the man's ham shack. John was then told about an upcoming novice and technician class that was to begin in two weeks. John took the Novice and Technician classes, passed the Novice test and kept upgrading so that today he holds an Extra class license.

He used CW at one time, copying 45 WPM while in the U.S. Army Security Agency, as a Morse code interceptor in Germany. However, he gave it up years ago. He prefers to hear voices and accents while carrying on a conversation with his contacts.

John used to work DX and worked 10 meters when it was open. Currently, he has a weekly schedule with a man from Texas on 20 meters. He also operates on UHF/VHF.

John is not a contester, but used to "chase paper". He has many DX, 10-X, YLSSB and other awards/certificates, but gave up paper chasing years ago due to the paperwork. His most memorable contact was with King Hussein on sideband. He received a 25th anniversary as monarch QSL card from him. He also received

several other awards.

His radio-related mail that he especially enjoys, consists of picture QSL cards from foreign lands. He corresponded for many years with a man in Russia.

John has built Heathkit equipment, such as, a phone patch, a wattmeter, and a keyer.

John has been involved with ARES/RACES, and public service activities, both here and in Illinois. He helped out with the Wheaton, Illinois, parade communications yearly. He also served as Secretary and President in his Wheaton club.

His equipment includes an ICOM 746 Pro for HF, a Yaesu FT-8800R for his base station, a Yaesu FT-50R HT, and a Yaesu FT-90R for his mobile. His HF antenna is a 10-80 meter vertical.

John has a B.S. in Computer Science and worked at ATT Bell Labs/Lucent as a software designer, an instructor, and a document writer. He and his XYL, Mary, retired a few years ago and settled in the Prescott Valley area.

He would like to see the club continue getting new members, continue to be active in public service, give classes, and do more public relations.

John is a very valuable member of YARC. He has been both Secretary and President of our club, and as past President, will continue on the Board for two years. He has been instrumental in YARC becoming a Special Service Club and in presiding over many aspects of our growth. ■



### Proposed Arizona Ham Radio License Plate Design

Plate should be available in January 2007. \$25 initial application fee/ \$25 annual renewal. FCC license required. Plate number is call sign. Can order on-line at:

<http://www.servicearizona.com/plates.html>

# Build A Simple Field Strength Meter

By Jim Clark N5RO

A field strength meter is perhaps the simplest piece of RF test equipment that can be built. Used for checking transmitters, antenna experimentation, and testing RF oscillators, field strength meters provide an indication of the presence of RF energy. They are not frequency sensitive and are useful where indication of a change in level is more important than the actual strength of the signal indicated.

Figure One shows a schematic of an RF field strength meter. The meter has no tuned circuit. It responds to signals of any frequency. A field strength meter works by converting an RF signal present at the antenna to a DC voltage. This voltage drives a meter movement to give an indication of relative RF. The meter includes a control to reduce its sensitivity where required.

Because it uses few parts, a printed circuit board is not necessary: components can simply be soldered to one another. However, a box should be used for operating convenience. The case and antenna from a discarded toy walkie-talkie can be used, though any small plastic case will suffice. The meter movement need not be large; we are only detecting the presence of RF, and not making precise measurements. A discarded SWR meter can also be used as a source of parts, except for the diode(s) as explained below.

A meter from an old radio or tape recorder should work fine. The diodes can be any germanium type; the actual part number is not important. Germanium diodes can be recognized by their 6 mm-long clear glass case with two colored bands towards the cathode end. None of the component values shown are critical; a 50 percent variation would have little effect on circuit operation. If silicon diodes are used (from your old swr meter for example), you will find reduced sensitivity as a germaniums are generally twice as sensitive (rough figures), unless you incorporate an amplifier transistor of some sort.

To test the operation of the meter, a transmitter is required to provide a source of RF. Placing the field strength meter's extended antenna near a handheld VHF radio should produce an indication on the meter, assuming that the sensitivity control has been set to maximum. No indication means that the meter is not working. Common con-

struction errors include connecting the diodes backward or the meter incorrectly or using silicon diodes in place of the germanium diodes specified. In this case, the meter will still work, but with reduced sensitivity as indicated above. The ground wire is optional; when working with low-powered oscillators, It is useful to clip it to ground (of the circuit under test) to ensure a better indication on the meter.

Those without a transmitter can use an RF signal generator or crystal oscillator for testing purposes. In this case, place the meter's antenna directly on the output terminal to verify operation. However, only attempt this with transistorized circuitry. Component ratings and safety considerations make the meter described here unsuitable for poking around tube equipment

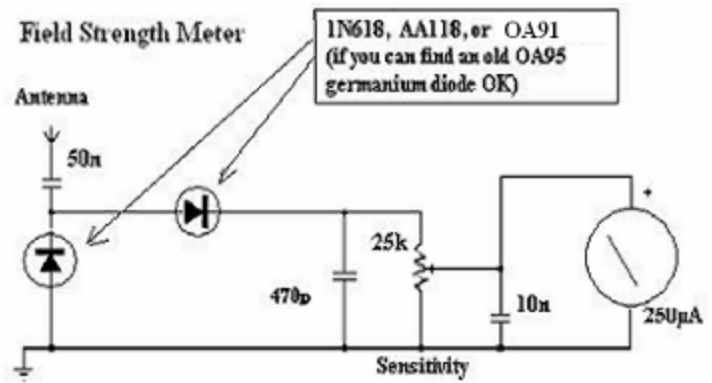


Figure 1

## Parts List:

- 50nF capacitor
- 470pF cap.
- 10nF cap.
- 25k potentiometer
- 250µA meter (not critical)
- (2) germanium diodes
- extendable antenna

The field strength meter is a useful instrument in its own right, but it can be made more versatile. Modifications include adding an amplifier (for greater sensitivity), including a tuned circuit (so it only detects signals in a particular band), or converting it into an RF wattmeter and dummy load. A circuit for a more sensitive instrument is shown in Figure 2.

*See Field Strength Meter Page 6*

• **Field Strength Meter** (Continued from Page 5)

If you prefer to build something more sensitive, here is a circuit found on the Internet that should work quite well, especially for building and tuning QRP transmitter kits such as the Elecraft products. You will note that the use of silicon diodes dictates the need for amplification and a high gain transistor is called for in this case to attain the desired sensitivity. A lower gain NPN transistor may be substituted if the high sensitivity is not required.

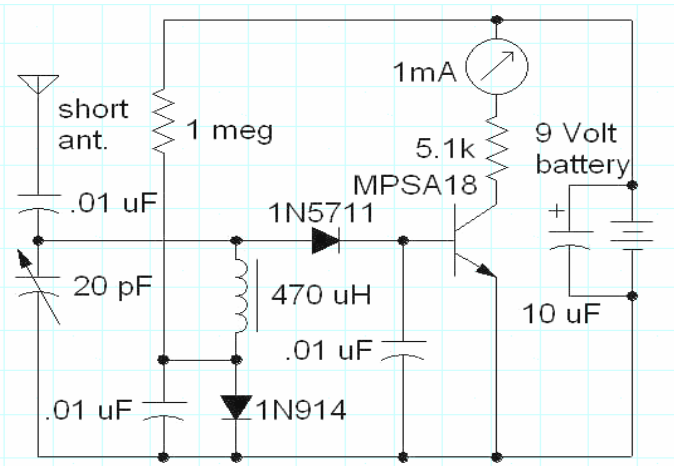


Figure 2

**Parts List:**

- MPSA18 NPN Transistor
- (3) .01µF cap
- 10 µF Polarized cap
- 20pF variable cap
- 1 meg Ω resistor
- 5.1 K Ω resistor
- 470 µH coil (DigiKey M7845-ND)
- 1N5711 Diode
- 1N914 Diode
- 1mA Meter
- 9V Battery

The circuit draws less than 10 µA with no signal, so no switch is needed. The variable capacitor is adjusted to tune the meter to the desired frequency by adjusting for the highest meter reading when held near the antenna. If the meter reaches full scale during tuning or use, move the meter further from the antenna. Other high gain NPN transistors may replace the MPSA18, if desired. This meter has an "expanded scale" in that it goes from a zero reading to full scale over a fairly small signal level change making fine tuning easy.

Point-to-point wiring is fine for this low frequency circuit. Remember, the meter DOES draw current when there is a meter reading above zero so don't leave it near a transmitter for long periods of time if you don't have unlimited funds for batteries! ■

## Good Stuff for New Hams & Everybody Else

*By Jim Clark N5RO*

This has been "floating around" on my hard drive for a long time and given to some new hams from time to time. It's lots of good information from A to Z about ham radio, antennas, connections, etc. etc. etc. designed for new hams but useful for all of us in case we've forgotten some of the "basics".

Refer to the following website: <http://tinyurl.com/ygaxol>  
or  
<http://www.piccentric.com/amateur/publications/practicalradioapplication/racticalradioapplication.pdf>

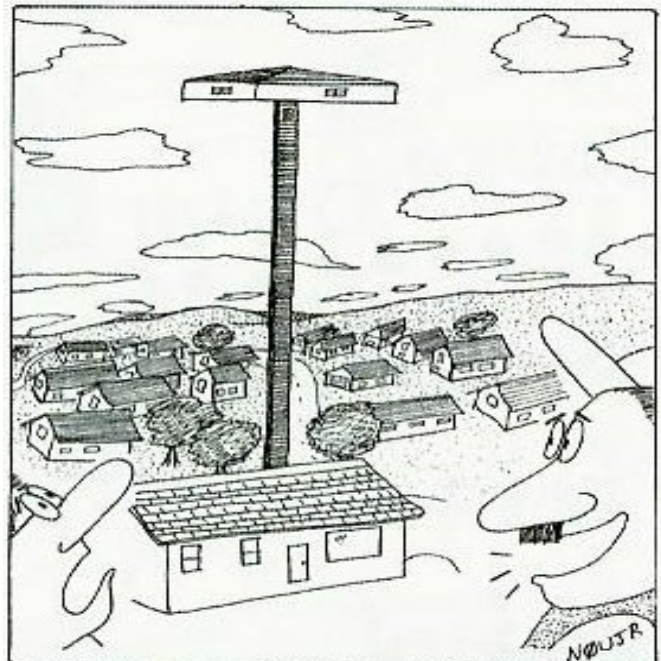


**ICOM IC-707**  
**HF 100W Transceiver &**  
**Astron 20 Amp. P. Supply**

If interested, contact:  
Frank Bosh, KJ7VA at

772-6947 (speak loudly-hearing loss).

Reprinted with permission from N0UJR



"I Found out that the local covenants don't allow towers, But there is no restriction on garden shed height!"



*By Lloyd, WA6ZZJ*

### **ARES/RACES... 2006, the year in review...**

The regular quarterly training meetings were held in February, May, August and November. The November meeting was held as a Communications Exercise with Emergency Operating Center (EOC) radio rooms being activated, resource and tactical nets conducted and deployments made to locations necessary. Messages, both tactical and written, were transmitted between locations.

ARES/RACES participated in a multi agency Wildfire Exercise in April. The exercise consisted of a 'Table Top' portion on April 4<sup>th</sup> and the actual exercise on the 7<sup>th</sup>. The exercise took place in the Prescott Pines area with simulated evacuations and multi agency response to the fire. This year with the very dry conditions, planning for the fire season began two months earlier than normal.

There were activations to have standby communications for several fires this year. The activations were requested by the County Office of Emergency Management and the Arizona State Office of Emergency Management. They included the Green Fire on June 1<sup>st</sup>, LaBarranca Fire (4 days) on June 1<sup>st</sup>, Battle Fire on June 7<sup>th</sup>, Brins Fire (several days) June 18<sup>th</sup> and the Tiger Complex Fire June into July. When activated for these fires, we keep a line of radio communications open with the state and monitor the different agencies to keep Emergency Management apprised of the fires progress.

Through the EOC radio room we also participated in two Arizona Office of Emergency Management communications events. There was a statewide communications test on August 25<sup>th</sup> where communications from all counties in the state to the state EOC was tested. On September 22<sup>nd</sup> we were once again involved by participating in the 'Northern Counties Exercise'. This exercise was mainly for Coconino, Apache and Navajo Counties, but the Yavapai County EOC radio room was activated for communications support.

ARES/RACES took part in two events displaying the ComVan and telling people just what we do for the County

and our other served agencies in providing emergency communications. We supported the Yavapai County Homeland Security Medical Reserve Corps 2006 Preparedness Expo on September 10<sup>th</sup> in Prescott Valley. Then on September 30<sup>th</sup> we participated in the 'Defenders of the Skies' 2006 Air Show at Love Field in Prescott.

Once again, I will put out a request for more people to get involved with ARES/RACES. We are becoming active in many more areas of Emergency Communications and a larger database of active members is needed. Try it... It's a lot of fun and at the same time justifies the FCC issuing our Amateur Radio licenses. Like I said a couple of months ago: If we look closely at the Federal Communications Commission (FCC) regulations that govern Amateur Radio, we find that there is no mention of having fun or seeing who can talk the furthest. However there is very specific mention of Amateur Radio providing a trained pool of radio operators available in times of need. In other words our ability to communicate when normal communications infrastructure is overloaded or unable to function is a reason we are able to get a license. That being the case, how do we prepare? By joining a local emergency communications organization that has a recognized training program. Yavapai County ARES/RACES is one such organization.

### **PUBLIC SERVICE... 2006, the year in review...**

Public Service Communications events started with the Whiskey Row Marathon on May 6<sup>th</sup> where there were 21 members participating this year. On September 16<sup>th</sup> we once again provided communications for the Groom Creek Classic 10K, 5K, 2 mile run. 6 operators were involved. A new event this year was the 54 mile Bike Loop Ride from Prescott through Wilhoit and Skull Valley, returning to Prescott. 6 members were involved in this event and we have already been asked to provide communications for the 2007 event to be held on September 16<sup>th</sup>. The Prescott Road Rally took place the first weekend of October and was a two day event with many operators from YARC, ARES/RACES and the VVARA participating. The America's Walk for Diabetes was held the third weekend of October with 9 members taking part. On November 18<sup>th</sup> another first time event was communicated for. The first annual Rails to Trails Race was held in Prescott and Prescott Valley. The 11 mile portion of this event began at York Motors in Prescott and used the Peavine and Iron King Trails to Prescott Valley. With the route going through the Granite Dells, it presented somewhat

*See ARES/RACES Page 8*

• **ARES/RACES** (Continued from Page 7)

of a communications challenge, so it was decided to use the 442.350 repeater on Glassford Hill. There were 10 members taking part in this event.

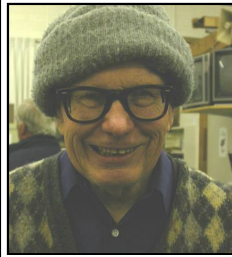
Public Service Communications is a very important part of Amateur Radio. Here at YARC there are several of our members that take an active part in it, but with the number of events we provide communications for growing, it would be nice to see more of the club membership getting involved. Make it your 'New Years Resolution' to get more involved this coming year.

A VERY HAPPY NEW YEAR TO ALL.....

Lloyd WA6ZZJ

## Perks of Being Over 50

- Kidnappers are not very interested in you.
- In a hostage situation you are likely to be released first.
- No one expects you to run -- anywhere.
- People call at 9 p.m. and ask, "Did I wake you?"
- People no longer view you as a hypochondriac.
- There is nothing left to learn the hard way.
- Things you buy now won't wear out.
- You can eat dinner at 4 p.m.
- You can live without sex, but not your glasses.
- You enjoy hearing about other people's operations.
- You get into heated arguments about pension plans.
- You no longer think of speed limits as a challenge.
- You quit trying to hold your stomach in no matter who walks into the room.
- You sing along with elevator music.
- Your eyes won't get much worse.
- Your investment in health insurance is finally beginning to pay off.
- Your joints are more accurate meteorologists than the national weather site.



## YARC Treasurer's Report for November/December 2006

By David Passell, K6UWV, Treasurer

### INCOME

**New Members** (see applications for additional information)

#### November

Ralph Gendron	W7HAM	11//07	11/02/06	cash	20.00
Luke Schlaht	(not yet)	11//07	11/02/06	cash	20.00
Clifford Vaughan	KE7IXV	11//07	11/02/06	cash	20.00

#### December

Bill Burkett	KE7IXS	12//07	11/19/06	2489	20.00
John (Jack) Hanny	KB7CH	12//07	11/11/06	0910	20.00
John Miller	KD7TJZ	12//07	12/07/06	cash	20.00
Ronald Weber	KE7HWP	12//07	12/07/06	cash	20.00

#### Renewals (Update Roster)

Szczpan Bartold	KD7HCS	08//07	11/02/06	cash	20.00
Glen Dechert	W6KNX	11//07	11/02/06	mo4912	20.00
Douglas Freeman	KV8TD	08//07	11/02/06	1366	20.00
Doreen Freeman	K7DRV	08//07	11/02/06	spouse	00.00
David Passell	K6UWV	10//07	12/11/06	3396	20.00
Robert V. Rosevear	WB7RRQ	12//07	11/11/06	7697	20.00
Judy Rosevear	KC7MTY	12//07	11/11/06	spouse	00.00
Robert R. Smith	WB6ODR	12//07	11/20/06	1438	20.00
Linda Smith	KD7EEO	12//07	11/20/06	spouse	00.00

#### ARRL

Gary Schlatt	AA7NY	NEW	12/07/06	cash	39.00
Clifford Vaughan	KE7IXV	NEW	11/02/06	cash	39.00

#### Other

50/50 November	50 tickets		11/02/06	cash	50.00
50/50 December	60 tickets		12/07/06	cash	60.00
T-shirts	two		11/02/06	cash	42.00
Patches	three		11/02/06	cash	9.00
Patch	one		12/07/06	cash	3.00
T-shirt	one to M. Keefe		12/07/06	4213	23.00
T-shirt	one		12/07/06	cash	19.00
Donation	anon		12/07/06	cash	2.00

**Total Income** .....**546.00**

### EXPENSES

50/50 November	Ray; K6CMU	11/02/06	cash	25.00
50/50 December	Ray; KC6CMU	12/07/06	cash	30.00
Joe Oliver	Stamps	11/30/06	907	39.00
ARRL via Pat Oliver for KE7IXV		11/30/06	cash	24.00
void	-----	11/30/06	908	00.00
Insty Print	Newsletter 33843	11/30/06	909	30.06
Robert Smith	Tiger -- Web Hosting 2007	11/30/06	910	75.00
David Passell	Cookies and Drinks	12/07/06	911	17.32
Jack Crabtree	UPS for IRLP	12/07/06	912	88.84
ARRL	Gary Schlatt AA7NY	12/07/06	913	24.00
Insty Print	Newsletter 34255	12/07/06	914	30.06

**Total Expenses** .....**383.28**

**Cash Flow (Income - Expenses)** .....**162.72**

Deposits	12/01/06	217.00
	12/11/06	250.00

**Total Deposits** .....**\$467.00**

**PREVIOUS REPORTED CHECKBOOK BALANCE** .....**\$2843.86**

**CURRENT CHECKBOOK BALANCE** .....**\$3006.58**



# Is This The Winner?

By Dick Hughes, W6CCD

I thought it would be fun to have a contest for the dumbest thing we have ever done in ham radio. Here is my entry.

Back in the 60's, mobile radios were heavy and difficult to mount in a vehicle. Radios like the Collins KWM-2 and Heath SB-100 were very large, and needed strong supports for mobile operation. We didn't have the center consoles like today, so radios were mounted under the center of the dash. One method was to use common drawer slides. The main part was attached to the under side of the dash, and the other end was attached to the firewall. The slide part was attached to the top of the radio, which made a strong mount as well as easy to remove.

In 1961 we bought a new, Corvair coupe. The first thing you did back then after you got it home was to drill the holes for the antenna, and mount the radio and power supply. My radio at the time was a Gonset II 6-meter Communicator. These were the square boxes that were self-contained, including a 12-volt power supply. Drawer slides were the perfect solution to mounting it.

Being a car person, and having already owned a Corvair,

I knew that the gas tank was in the front of the car, forward of the firewall. Caution was in order when drilling holes to attach the slides. I wrapped some masking tape around the drill bit so only 1/4-inch was protruding. I wanted to make absolutely certain I didn't drill too far and puncture the gas tank. After drilling the holes, I took a loose drill bit and stuck it in as far as I could to make sure the metal screws wouldn't reach the tank. Nothing felt, so the radio was installed.

A few days later, after filling the gas tank, I noticed a puddle in the driveway. I was shocked to learn it was gasoline! Being that this car was still under warranty, I drove it to the Chevrolet dealer to see if they could find the leak. Vi and I walked to a restaurant to kill time while they fixed it. When we got back, the service manager said, "Come here. I want to show you something." The Corvair was up on a rack and he showed me that, with all the holding straps undone, the tank was still attached to the car! Then he showed me that the sheet-metal screws I used to hold the slides to the firewall were screwed right into the tank! Apparently, when I felt around after drilling the holes, I was just moving the drill bit inside the tank! I didn't realize that the tank was tight against the firewall.

That may not be the winner, but it was really, really dumb! ■

## CQ DX de YARC – JANUARY 2007

By Dick Diddams, W7QHE

DATE		DXCC ENTITY	CALL	QSL VIA	REPORTED BY	INFORMATION	--- MONTHLY HIGHLIGHTS --- <b>SOVEREIGN MILITARY ORDER OF MALTA – SMOM</b> <b>NUMBER 28 OF THE 100 MOST WANTED</b> This past week it was announced 1A4A license has been issued by SMOM. The license (One Aid 4 Africa) has been granted into a fundraising program to support the worldwide relief activities of SMOM. The Sovereign Military Hospitaller Order of Saint John of Jerusalem, of Rhodes and of Malta (also known as the Knights Hospitaller, Knights of Malta, Knights of Rhodes, and Chevaliers of Malta) is an organization that began as an Amalfitan hospital founded in Jerusalem in 1080 to provide care for poor and sick pilgrims to the Holy Land. After the conquest of Jerusalem in 1099 during the First Crusade it became a Catholic military order under its own charter. Following the loss of Christian territory in the Holy Land, the Order operated from Rhodes, over which it was sovereign, and later from Malta where it administered a vassal state under the Spanish viceroy of Sicily. Although this state came to an end with the ejection of the Order from Malta by Napoleon, the Order as such survived. The Order of the Dames of Malta is the female auxiliary to the Knights. The Order has recently returned to Malta, after signing an agreement with the Maltese Government, which granted the Order the exclusive use of Fort St. Angelo for a term of 99 years. Located in the town of Birgu, the Fort belonged to the Knights from 1530 until the island was occupied by Napoleon in 1798.
START	END						
Now	Jan13	Malawi	7Q7HB	G0IAS	425DXN 20061014	By 7Q7HB	
Now	Jan08	Tonga	A3	JA7GAX	425DXN 20061118	fm OC-049 OC-169 (1 week) OC-064 (1 week)	
Now	Jan03	Tonga	A35GN	VK2GND	OPDX 20061016	fm OC-049; check 7050 14195 14273 kHz	
Now	Jan05	Sri Lanka	4S7UCG	DL7UCX	DL7UCX 20061218	160-30m; CW; holiday style operation	
Now	Jan08	West Kiribati	T30XX	JA8UWT	JA8BMK 20061215	160-10m; SSB CW; yagi, dipoles, inverted vee	
Jan01	Jan09	Leichtenstein	HB0	DL2OBO	DL2OBO 20061027	Focus on 160-30m, CW; some SSB + RTTY PSK	
Jan02	Jan08	SMOM 28/100	1A4A	IZ4DPV	1A4A 20061211	160-2m; SSB CW RTTY; focus on low bands	
Jan03	Jan09	Bahamas	C6ARI	DL3OCH	DL5YWM 20061031	fm Elbow Cay (NA-219,BAH-018); 160-10m; CW SSB	
Jan03	Feb03	Niger	5U5U	See QRZ.COM	425DXN 20061216	All bands; SSB	
Jan04	Jan28	Djibouti 90/100	J20SA	ON7SAT	ON7SAT 20061117	40 20 15 10m; SSB; spare time operation	
Jan06	Jan20	Burkina Faso	XT2C	F9IE	F5NQL 20061011	160-6m; CW SSB RTTY PSK31/63	
Jan07	Jan30	Cambodia 93/100	XU7ACY	K2NJ	NO2R 20061106	fm Sihanoukville; focus on lowbands, CW SSB	
Jan08	Jan21	Taiwan	BX0ZR	W8UVZ	W9ZR 20061215	All bands, focus on 160 80m; vertical; Beverages	
Jan09	Jan11	Fiji	3D2	JA7GAX	425DXN 20061118	fm OC-016	
Jan10	Jan16	Bangladesh 42/100	S21XA	EA3BT	425DXN 20061007	160-6m; SSB CW RTTY; 3 stations	
Jan15	Jan25	Lakshadweep 2100	VU7RG	See Info	DL4KQ 20060907	QSL: Region 1 GDXF Reg 2 N2OO, Reg 3 JA3UB	

Note: CQ 160-Meter, CW Contest (Jan 27-28, 2007)

## Computer Tips

*Submitted by Jim Clark, N5RO*

There are times when we need special characters for email or computer documents that are not provided in the font sets or special symbols in the word processors commonly used, or we simply may want a faster way than to go hunting for them. For example, we may want to type ½ rather than 1/2, use a Greek alphabet letter, insert a slashed Ø, or use a math symbol such as ± or ≈.

Back in the UNIX, CPM and DOS days, some of us learned to use another way to type such symbols which are still provided in the basic command set on almost all PCs and Apple computers. Attached is a list of how to type some of these more common symbols and characters on a PC. In all cases, hold the [ALT] key down while typing the numbers on the numeric keypad and then release the [ALT] key.

It should be noted that the numbers typed must be typed on the numeric keypad - typing them on the number keys above the alphabetic keys will usually not work for most keyboards.

Try it - it works.

### Special Characters

<u>CHARACTER</u>	<u>KEY</u>	-	<u>NUMERIC KEYPAD</u>
½	[ALT]	+	171
¼	[ALT]	+	172
GREEK ALPHABET (Use format change for upper/lower case)			
α	[ALT]	+	224
β	[ALT]	+	225
Γ	[ALT]	+	226
π	[ALT]	+	227
Σ	[ALT]	+	228
σ	[ALT]	+	229
μ	[ALT]	+	230
τ	[ALT]	+	231
Φ	[ALT]	+	232
Θ	[ALT]	+	233
Ω	[ALT]	+	234
δ	[ALT]	+	235
∞	[ALT]	+	236
φ	[ALT]	+	237
ε	[ALT]	+	238
MATH AND OTHER SYMBOLS			
±	[ALT]	+	241
≥	[ALT]	+	242
≤	[ALT]	+	243
≈	[ALT]	+	247
°(degrees)	[ALT]	+	248
· (large bullet)	[ALT]	+	249
· (small bullet)	[ALT]	+	250
Ø	[ALT]	+	0216

## ARIZONA SECTION NEWS

**December 2006**

Is your mailing address correct on your FCC license?

The FCC has been canceling amateur radio licenses that have incorrect addresses. My staff and I have found many incorrect addresses this last week, better get those addresses updated.

FCC part 97.23 Mailing address: Each license grant must show the grantee's correct name and mailing address. The mailing address must be in an area where the amateur service is regulated by the FCC and where the grantee can receive mail delivery by the United States Postal Service. Revocation of the station license or suspension of the operator license may result when correspondence from the FCC is returned as undeliverable because the grantee failed to provide the correct mailing address.

For more information go to the FCC website at: [http://wireless.fcc.gov/services/index.htm?job=cft&id=amateur&page=cft\\_change\\_address](http://wireless.fcc.gov/services/index.htm?job=cft&id=amateur&page=cft_change_address)

73, Tom Fagan WB7NXH  
ARRL Section Manager Arizona

### Recognizing a Stroke

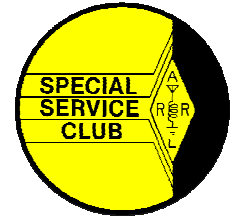
Sometimes symptoms of a stroke are difficult to identify. Unfortunately, the lack of awareness can spell disaster. The stroke victim may suffer brain damage when people nearby fail to recognize the symptoms of a stroke. Now doctors say a bystander can recognize a stroke by asking three simple questions:

- Ask the individual to SMILE.
- Ask him or her to RAISE BOTH ARMS.
- Ask the person to SPEAK A SIMPLE SENTENCE (Coherently) (e.g. It is sunny out today.)

If he or she has trouble with any of these tasks, call 9-1-1 immediately and describe the symptoms to the dispatcher. ■



# Why Join the ARRL?



## **About the ARRL**

The American Radio Relay League (ARRL) is the national membership association for Amateur Radio operators.

The ARRL has approximately 152,000 members and is the largest organization of radio amateurs in the United States. The ARRL is a not-for-profit organization that:

- Promotes interest in Amateur Radio communications and experimentation
- Represents US radio amateurs in legislative matters, and
- Maintains fraternalism and a high standard of conduct among Amateur Radio operators.

## **Services Provided**

The ARRL headquarters in Connecticut has a staff of 120 to serve the needs of members. ARRL publishes the monthly journal QST, as well as many publications covering all aspects of Amateur Radio. Its headquarters station, W1AW, transmits bulletins and Morse code practice sessions. The ARRL also coordinates an extensive field organization, to provide technical information for radio amateurs and public-service activities. In addition, ARRL, represents US amateurs with the F.C.C. and other governmental agencies in the US and abroad.

Membership means more than receiving the QST magazine each month. Besides the services listed above, other membership services include the ARRL Volunteer Examiner Coordinator (VEC) Program, DXCC Award program, QSL Bureau, and ARRL website <http://www.arrl.org/>.

## **Special Service Club**

The Yavapai Amateur Radio Club (YARC) is affiliated with the ARRL, which means that at least 51% of our licensed membership must be full or associate ARRL members. In addition, YARC has received special recognition from the ARRL and is designated as a *Special Service Club*. The Special Service Club category is for clubs that go the extra mile to provide ongoing training and support for the benefit of the community and actively pursue all aspects of amateur radio.

## **Plan to Join the ARRL or Renew Membership**

There would be no Amateur Radio as we know it today were it not for the ARRL. 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.

By joining the ARRL or renewing your ARRL membership through the club, there is no extra cost to you, and our club gets to retain a portion of the application fee. ■

## 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,

2<sup>nd</sup> Floor; above Bank of America)

*informal – all are invited*

\* Location data (per WGS84) provided

by Fred Zimmermann, N7PJM

## 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	
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/](http://www.w7ara.org/Web/)
- [www.azrepeaters.net](http://www.azrepeaters.net)
- [www.azfreqcoord.org/listings.htm](http://www.azfreqcoord.org/listings.htm)

## YAVAPAI AMATEUR RADIO CLUB

P.O. BOX 11994

PRESCOTT, AZ 86304

Visit us on the web at <http://www.w7yrc.org>

Many thanks to Bob Smith, WB6ODR, our Webmaster

