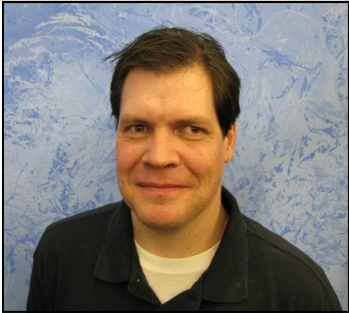




YAVAPAI SIGNAL



The Yavapai Amateur Radio Club • Prescott, Arizona • DM-34 • Volume 27- No.9 • September 2012



Hello once again!

I wanted to take a moment right up front to invite everyone to the upcoming meeting on September 6th. Tom Fagan (K7DF), Arizona's Section Manager for the ARRL, has agreed to take some time

out of his busy state-wide schedule of appearances to visit us and talk a bit about the ARRL, some of the services it provides, and answer your questions.

I'd also like to extend congratulations to everyone who obtained or upgraded their licenses at our recent testing and thank everyone involved for their tremendous service to the Amateurs in the area.

September and October are traditionally busy months for YARC and its operators. If you'd like to participate there's certainly plenty to do. As of this writing, operators are still needed for the Skull Valley Loop Challenge (Sept 16), the Tour de Pee Vee Half Marathon (Sept 22) and the Groom Creek Classic (Sept 29th). If you're interested in helping out with the first two events mentioned, contact Lloyd (WA6ZZJ). If you're interested in helping out with the Groom Creek event, contact Patti (KD7VVBG)

Don't forget our ongoing events too! The Fox Hunt (hidden transmitter hunt) happens monthly (the Sunday following the meeting). Pete, K6VVR has details on that. We also support a weekly net Wednesday nights at 7pm local time on the 146.880+

Have a great month!

Creighton

AD7YR

September Program

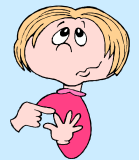
**Tom Fagan, K7DF,
ARRL - Arizona Section
Manager**



Will talk about ARRL activities and respond to members' questions and concerns.

Membership Count:

| | |
|---------------------------|-----|
| 1st Thurs. in July..... | 172 |
| Gain/Loss..... | +3 |
| 1st Thurs. in August..... | 175 |



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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. Our deepest gratitude to Bill Kafka, W2YAV for allowing us to acquire the original club repeater.

Minutes of July 26, 2012 At Coco's Restaurant, Prescott AZ



Present were:
AD7YR, KE7NAP,
WN7E, K6VVR,
K7SEN, KV8TD,
N7GLH AND
KE7KEV

AD7YR opened the meeting to discuss an e-mail from **K2FRD** regarding a future YARC presentation of a **Buddipole demonstration**.

AD7YR then showed a picture from Badge lady, **KF7MAU**, showing how a **swinging hanger attached below a badge** could denote the current or past office held by that person. A motion was made by **KV8TD**, seconded by **K6VVR** and approved by the Board to have **KF7MAU** make up the hangers.

Challenge Coins were next discussed, as brought up by **AD7YR**, as a method of honoring members for past Club service. Presenting **coffee cups** was also discussed as another reward possibility. **AD7YR** will present the ideas to the general membership for approval.

K7SEN brought up the fact that reservations need to be made soon for the **Club party** next January. After much discussion, **K6VVR** agreed to make local restaurant contacts to present choices to the Board and general membership for approval.

To help increase more participation on **HF**, it was suggested to present awards at the end of the year to those Club members covering the most states, DX contacts or counties, etc. In conjunction with this, it was suggested that experienced Hams mentor the new Hams on HF to earn '**Special Service**' awards. This idea will be presented to the general membership.

K6VVR brought up the idea to make **CDs of license lessons, questions and answers** to sell to potential Hams to facilitate passing exams. He also suggested giving out **door prizes at Fox Hunts** to encourage participation.

The Board meeting was adjourned by **AD7YR** at 6:53.

Respectfully submitted by

Barbara Ashley ~ **KE7KEV**

YARC Secretary

Minutes of August 2, 2012 General Meeting

The meeting was called to order at 1904 hours by **AD7YR** with the Pledge of Allegiance.

Board members were asked to stand by **AD7YR** to be introduced. Following that, these **new members** were introduced and voted in: **Paul Schumacher, AD7SL; Alex Harris, KE7WOR; Mike Barnes, KF7VUH; Max Fernandez, KF7KFN; Kevin McCarthy, KE7WOV; and Mike Mladejovsky, WA7ARK. Welcome to all of you!**

AD7YR asked for a motion to approve the amended Minutes of the last meeting. Omitted had been the motion by **KB7TRE** and seconded by **K6VVR** to approve \$300 of Club funds to purchase **signs** for the **school grounds** to indicate the location of **YARC and K7GMG**. A motion to approve the amended minutes was made by **WB9VGJ**, seconded by **KE7JEQ** and approved by the membership.

A motion by **WN7E** to approve the **Treasurer's Report** as published in the Signal was seconded by **K6VVR** and approved by the membership.

KD5VRW then reported that the sec-

ond and final **Extra class** will be next Saturday there in the YARC meeting room.

WN7E then showed the **Club decals and patches** and gave the prices.

Following that, **WB7RFY** gave an overview of **ARCA** (Amateur Radio Council of Arizona) before presenting **KB7TRE with the Ham of the Year Award! CONGRATULATIONS ON THIS WELL DESERVED RECOGNITION!**

KD7VBG spoke about the upcoming **Public Service Events** and had signup sheets available.

K6VVR told how to get new **badges** from **KF7MAU** ~ **badges@w7yrc.org**.

K7SEN then lauded **N7CW** for the great job of being an **Elmer** and added that the Wednesday Night Net is going great!

KB7TRE reminded us that school is starting and asked us to 'drive softly'. He also has several potential Student Hams!

K6VVR said the upcoming **Fox Hunts for August and September** will be on **Sunday** and the one for **October** will be on a **Saturday** to accommodate those who can't do it on Sunday.

KE7KEV reported that donations to the **Yavapai County Food Bank** are greatly needed and appreciated. (Secretary's note: Donations this month included a whopping 43# and \$5 cash! **35,000 pounds of food are given out each week!**) **SO THANKS TO ALL WHO GAVE!!!**

AD7YR said **K6VVR** is making connections with local restaurants to provide choices for the location of the **Holiday Party** in January. A committee will be formed and input is desired.

AD7YR again asked for an **Equipment Chairman** to catalog loaned out equipment.

N7NGM showed gear he has to sell for the family of a silent key.

It was suggested that it would be good PR for the **Club** to have a **business card** to hand out with the Club website/logo/contact numbers/address, etc. on it. The YARC Public Information Officer, **WB7TPH**, will take on the project of providing same. **WB9VGJ** opened a **vigorous round of applause and kudos for WB7TPH for a job well done as PIO!**

KB7TRE elaborated more on the proposed **signs for YARC and K7GMG** and a motion was made by **AD7YR**, seconded by **WB9VGJ** and carried to have the signs made with funds so allocated.

AD7YR thanked the membership for their support of the **Eagle Scout work party**, organized by **KF7RXX**, which beautified the school grounds.

AD7YR then announced the three short films which would be shown after the break. He also asked that when using the Club repeater, 146.880, please identify your call sign through YARC.

WB7RRQ announced an upcoming **Road Rally** the last week in September.

A motion to adjourn the meeting at 1942 hours was made by **WB9VGJ**, seconded by **WB7RRQ** and carried by the general membership.

The 50/50 cache of \$55 was won by **WB9VGJ**.

Respectfully submitted by
Barbara Ashley ~ **KE7KEV**
YARC Secretary

Exercise for People Over Fifty

Begin by standing on a comfortable surface, where you have plenty of room on each side.

With a 5-lb potato bag in each hand, extend your arms straight out from your sides and hold them there as long as you can. Try to reach a full minute, and then relax.

Each day you'll find that you can hold this position just a little bit longer.

After a couple of weeks, move up to 10- potato bags.

Then try 50-lb potato bags and then eventually try to get to where you can lift a 100-lb potato bag in each hand and hold your arms straight for more than a full minute.

After you feel confident at that level, put a potato in each bag. ■

Wednesday Evening Net



Every Wednesday at 7:00 p.m. the club net is held on YARC's 146.880 repeater. All radio amateurs are welcome and encouraged to check-in.

If you are interested in being the Net Control for an evening(s), contact **Neil Vince, K7SEN** at: net.manager@w7yrc.org.

YAVAPAI AMATEUR RADIO CLUB

August 2012 Treasurer's Summary - Tom Griswold WN7E

Income

| Date | Callsign | Name | Code | Check # | Amt. Paid | G. F. Amt. | Rep.Fund | ARRL |
|----------------------|----------|------------------------------------|------|---------|-----------------|-----------------|----------------|---------------|
| 08/02/12 | KF7PQW | Lloyd Ewart | R | 4391 | 20.00 | \$18.00 | \$2.00 | |
| 08/02/12 | W7JPO | Jerry O'Connor | R | 560 | 20.00 | \$18.00 | \$2.00 | |
| 08/03/12 | KF7VUH | Mike Barnes | N | cash | 20.00 | \$18.00 | \$2.00 | |
| 08/03/12 | KE7WOR | M. Alex Harris | N | cash | 20.00 | \$18.00 | \$2.00 | |
| 08/03/12 | KE7WOV | Kevin F. MaCarthy | N | cash | 20.00 | \$18.00 | \$2.00 | |
| 08/03/12 | KF7KFN | Max Fernandez | N | cash | 20.00 | \$18.00 | \$2.00 | |
| 08/03/12 | AD7SL | Paul E. Schumacher | N | 8960 | 20.00 | \$18.00 | \$2.00 | |
| 08/03/12 | WA7ARK | Mike Mladejovsky | N | 113 | 20.00 | \$18.00 | \$2.00 | |
| 08/03/12 | KC7BPI | Harold Berthold | R | cash | 20.00 | \$18.00 | \$2.00 | |
| 08/03/12 | KF7ING | Frank Kennemur | R | cash | 20.00 | \$18.00 | \$2.00 | |
| 08/03/12 | KV8TD | Doug Freeman | R | 1929 | 20.00 | \$18.00 | \$2.00 | |
| 08/03/12 | K7DRV | Doreen Freeman | R F | " | | | | |
| 08/03/12 | KD7VBG | Patty Halgunseth | R | 3790 | 20.00 | \$18.00 | \$2.00 | |
| 08/03/12 | KF6SPS | Walter Schumann - donation SK ant. | | cash | 10.00 | \$10.00 | | |
| 08/03/12 | | 50/50 raffle | | cash | 110.00 | \$110.00 | | |
| Income Totals | | | | | \$360.00 | \$336.00 | \$24.00 | \$0.00 |

Expenses

| | | | | | | | | |
|-----------------------|--------|--------------------------------|--|------|--|-----------------|--|--|
| 07/26/12 | K6VVR | Pete Morrison - field day food | | 1121 | | \$105.38 | | |
| 08/03/12 | WB8VGJ | John Broughton - 50/50 winner | | cash | | \$55.00 | | |
| 08/03/12 | KD5VRW | Roger Nash - ARRL materials | | 1122 | | \$100.00 | | |
| 08/03/12 | | Allegra - newsletter | | 1123 | | \$25.52 | | |
| Total Expenses | | | | | | \$285.90 | | |

| | | | | |
|----------------------|-------------------|-------------------------|-------------------|--|
| Beginning Balance | \$6,763.91 | | | |
| Aug. Income | \$360.00 | July end Repeater Fund | \$1,670.03 | |
| | | Aug. 2012 Repeater Fund | \$24.00 | |
| Sub Total | \$7,123.91 | Interest Jun & Jul | \$0.27 | |
| Expenses | \$285.90 | Repeater Fund Bal. | \$1,694.30 | |
| General Fund Balance | \$6,838.01 | ARRL Payments | \$0.00 | |
| Net Loss/Gain | \$74.10 | Aug. Income | \$360.00 | |
| | | Cash out 50/50 | \$55.00 | |
| | | Deposit | \$305.00 | |

Monthly Fox Hunt

By John Broughton, WB9VGJ

The monthly foxhunt was held August 5th. Dave, N7GLH, and Pete, K6VVR, were the foxes.

There were two teams hunting: Jeff, WB7RFY, and I, WB9VGJ: Jim, WB7UZV, and Sky, KF7SKY.



Jim and Sky were the first to arrive with a time of 28 minutes and mileage of five miles. They located the primary transmitter in two minutes and the secondary transmitter in 28 minutes. Sky was the first to find the primary transmitter, so he was the winner of the hunt. Congratulations, Sky and Jim!

Unfortunately, Jeff and I were skunked: we had to give up as the allotted time was running out and we were not successful in finding the transmitters. We drove quite a ways, 32 miles, and were all around the area where the transmitters were hidden. Had we taken one fork instead of the other on one road, we might have been more successful.

Dave and Pete did an excellent job hiding the transmitters.

We all had our usual enjoyable social get-together after the hunt at Denny's.

We would encourage more folks to get involved in the hidden transmitter hunts. They are really fun and help develop direction-finding skills.

I want to thank Dave for contributing to this article and to providing pictures. You can see pictures of the hunt at: <http://tinyurl.com/ct3ft4l>

Dave provided the pictures with dates on them.

73,

John, WB9VGJ

Club contacts - At a Glance

| | |
|----------------------------|--|
| President - AD7YR | president@w7yrc.org |
| Vice President - KE7NAP | vice.president@w7yrc.org |
| Secretary - KE7KEV | secretary@w7yrc.org |
| Treasurer - WN7E | treasurer@w7yrc.org |
| Board Member - KV8TD | kv8td@w7yrc.org |
| Board Member - K6VVR | k6vvr@w7yrc.org |
| Board Member - N7GLH | n7glh@w7yrc.org |
| Board Member - K7SEN | k7sen@w7yrc.org |
| Arizona WAC Administrator | az.wac@w7yrc.org |
| Ask Elmer for Help | ask.elmer@w7yrc.org |
| Badges | badges@w7yrc.org |
| Field Day Chairman | field.day@w7yrc.org |
| Fox Hunts | fox.hunt@w7yrc.org |
| License Classes | classes@w7yrc.org |
| Membership Application | membership@w7yrc.org |
| Net Manager | net.manager@w7yrc.org |
| Newsletter Editor | newsletter@w7yrc.org |
| Program Inputs | programs@w7yrc.org |
| Public Information Officer | pio@w7yrc.org |
| Public Service - DEC | public.service@w7yrc.org |
| Repeater Trustee | repeater@w7yrc.org |
| Special Events | special.event@w7yrc.org |
| VE Test Liaison | testing@w7yrc.org |
| YARC Party Coordinator | yarc.party@w7yrc.org |
| Information | info@w7yrc.org |
| Webmaster | yarc@w7yrc.org |
| Webmaster | w7yrc@w7yrc.org |
| Webmaster | webmaster@w7yrc.org |

YARC Officers for 2012

| | |
|---|---|
| President | Vice President |
| Creighton Grotbeck, AD7YR president@w7yrc.org | Ellis Rackoff, KE7NAP vice.president@w7yrc.org |

| | |
|--|--|
| Secretary | Treasurer |
| Barbara Ashley, KE7KEV secretary@w7yrc.org | Tom Griswold, WN7E treasurer@w7yrc.org |

Board of Directors (includes Club Officers)

Doug Freeman -- KV8TD
Pete Morrison -- K6VVR
Neil Vince -- K7SEN
David Hanson -- N7GLH

Newsletter Editor: Joe Oliver, AC6AA
newsletter@w7yrc.org



By Lloyd, WA6ZZJ

PUBLIC SERVICE COMMUNICATIONS.....

Upcoming Public Service Event Communications.....

September is promising to be another busy month for YARC Public Service Communications. The following events still need a few operators to sign up:

- **Sunday, September 16, 2012 Skull Valley Loop Challenge**
- **Saturday, September 22, 2012 Tour de Pee Vee 1/2 Marathon**
- **Friday and Saturday, September 28 and 29, 2012 Prescott Rally**
- **Saturday, September 29, 2012 Groom Creek Classic 1/2 Marathon (contact kd7vbg@cableone.net)**
- **Saturday, October 20, 2012 Step Out Walk to Stop Diabetes**

Check your calendars and sign up. Signups for these events will continue at the September YARC meeting or you can email direct to: wa6zzj@arrl.net to get your name on the list. Some of the events will fill quickly so sign up early. Alternate sign up from the YARC website under 'Public Service Events'. Click on 'Event Application' **Make sure the event you are signing up for shows in the pull down box.**

PUBLIC SERVICE COMMUNICATIONS POSITION DEFINITIONS.....

WHAT IS A "Rest Stop/Aid Station Communicator"?

A rest stop or aid station communicator is an Amateur Radio Operator who provides on-site staff communications during an event.

CONCEPT:

- The purpose of a rest stop or aid station communicator is to provide constant contact between net control and the local rest stop or aid station official. Thus the amateur operator **MUST** remain in the immediate vicinity of the rest stop or aid station **AT ALL TIMES**.
- Because the rest stop/aid station is usually a central location, providing participants with supplies and or first aid, the communicator

needs to always remain in contact with the site leader and be cognizant with site operations without interfering with normal operations.

RESPONSIBILITIES/DUTIES:

1. The communicator must remain within the vicinity of the rest station/aid station at all times. In addition, the amateur must monitor the radio **AT ALL TIMES**.

2. Communicator is expected to take direction from the event communications net control during his shift.

3. The rest stop/aid station communicator may operate other radios as well, such as an event-furnished radio and cellular telephone.

- Shift Duration. Most event operations have durations of 8 hours or less. This time may vary depending on the actual needs of the operation.

- The rest stop/aid stations are usually located some distance from net control. These locations do not always provide shelter from the elements and may require the communicator to use his/her ingenuity in functioning from this type of location.

EQUIPMENT REQUIREMENTS:

The communicator should possess the following equipment when reporting for duty:

- 2 Meter FM Transceiver capable of at least 25 watts into the antenna. This set-up can be a mobile unit or a HT plus amplifier combination. Some assigned positions may be able to use a good 5 watt HT.

- Optional 2 meter/440 dual band transceiver with cross-band feature.

WHAT IS A "SAG"?

A SAG (Support And Gear) Communicator is a mobile capable Amateur Radio Operator. A SAG operator typically rides in a vehicle designated to provide transportation or logistics during an event.

CONCEPT:

The purpose of the SAG operator is to allow constant contact between the SAG vehicle and event officials via amateur radio. Thus the amateur operator **MUST** remain in the immediate vicinity of the SAG vehicle driver **AT ALL TIMES**. The SAG communicator will typically ride "shotgun" in the vehicle being used as the SAG vehicle. The driver may have a set agenda or route that may change due to the nature of the event or at the directions of net control.

RESPONSIBILITIES/DUTIES:

Communications

- The SAG communicator must remain with the SAG vehicle and/or driver at all times. In addition, the amateur must monitor the radio **AT ALL TIMES**.
- The SAG communicator is expected to take direction from the event communications net control during his shift.
- The SAG communicator may operate other radios as well, such as an event-furnished radio and cellular telephone.

Other Duties:

- The SAG communicator may be called upon to assist the driver with map reading, observing road conditions and assisting the loading of the vehicle (generally tired or participants with minor injuries), including their equipment if needed. The SAG communicator must remain with the SAG vehicle and/or driver at all times.
- Shifts at most public service events have durations of 8 hours or less. This time may vary depending on the actual needs of the operation.

EQUIPMENT REQUIREMENTS:

The SAG operator should be equipped with the following equipment when reporting for duty:

- Mobile 2 meter, 10 watt output minimum, synthesized transceiver with programmable CTSS encoder, for easy installation in a vehicle. Alternative: Hand-held, 2 meter with mobile booster amplifier. Some assigned SAG posi-

tions may be able to use a good 5 watt HT with external mag-mount antenna.

- Dual Band or 5/8-wave, mag-mount antenna with 15 feet coaxial cable with necessary connectors and adapters.
- Spare batteries for up to 12 hours operation if using HT.
- Power adapter connectors -- for cigarette lighter equipped vehicles. ■

Chuckle for the Day...

I was visiting my son last night when I asked if I could borrow a newspaper. "This is the 21st Century " he said. "We don't waste money on newspapers. Here, you can use my iPad."



I can tell you this, that damn fly never new what hit him.

Need a Hand?

If you need assistance, we want to help you. If you are just starting out in ham radio, or simply have run across something that you could use a hand with... technical assistance or answers to questions about the Yavapai Amateur Radio Club, are available from knowledgeable club members.



Don't Hesitate to Ask for Help!!

CALL:

Neil Vince, K7SEN (928) 775-2158

Bud Semon, N7CW (928) 771-8267

VE Test Results

By Mary Vince, AB7NK

August VE Test Results

Saturday, August 12, 2012, seventeen eager applicants arrived at the Jeep Posse Bldg. to take one of the three license exams being administered that morning. Twelve individuals had previously pre-registered making short work of the check in process, for them.

Seventeen applicants took 18 elements which resulted in eleven new Technicians, one General and three upgrades to Extra. Congratulations to everyone on your success.

VE Test Dates

If you would like to finish out 2012 with your technician license or an upgrade to General or Extra, there are two opportunities to do so. An extra test session has been added for Friday, October 12, 2012 at 6:00 P.M. at the Jeep Posse Bldg.

The final test session for 2012 will be held Saturday, November 3, 2012 at 9:00 A.M. at the Jeep Posse Bldg.

If you have any testing related questions or are interested in testing either of these two dates please pre-register by emailing testing@w7yrc.org. More information can be found on the clubs website under the License Tests tab.

Net Controls Needed

By Neil Vince, K7SEN

Net controls are needed for the months of October, November and December. The net control list will be at the front table at the meeting. Please take a moment to sign up or you can call Neil, K7SEN at 775-2158 with your availability.

New VE Team Leader Announced

By Mary Vince, AB7NK

This past June 2012, I announced I would be resigning as the VE Team Leader and Liaison. This decision was not made hastily, but one I have been contemplating for the past three years.

The club has sponsored VE testing in the Prescott area since its inception in 1991. Holding VE sessions was noted by the originators of the club at the first few organizational meetings. Not only would the club lose its Special Service Club status, it would be devastating to the ham community to lose a testing location in the general area. In the end, those wanting to enter the hobby as well as those wishing to upgrade would be hurt the most since they would have to travel longer distances to take the exam.

Before the ARRL will allow a VE Team to become Field Stocked (having a supply of testing material on hand), they must prove themselves. Team Leaders can not arbitrarily be changed. There is a process to go thru and the ARRL must approve any changes. Individuals must be an extra class amateur in good standing, hold an ARRL VE accreditation, have adequate knowledge of the VE program and testing procedures.

Things were looking rather bleak regarding a replacement, rumors were floating around and emails sent making false promises. All of this can now be put to rest.

I would like to announce that WB9VGJ, John Broughton will be taking over as Team Leader effective January 2013. John was a member of the VE Team when I took over in 2005. John has been one of the key VE's over the years and will do an outstanding job as the Team Leader. In addition, effective January 2013, WB7TPH, Don Bauer will be taking over as the VE Team Contact person. Don's VE accreditation as an extra class licensee is in the works as of this writing. I will be working closely with both John and Don to assure the transfer will go seamlessly. Congratulations to you both!

Taking the FEMA Incident Command Courses

By Dick Hughes, W6CCD

Certification in the FEMA Incident Command and National Incident Management courses IS-100, 200 and 700 has been recommended for ARES/RACES members for some time. That situation has changed as the recommendation has become mandatory.

These courses are offered free of charge on-line. IS-100 is a prerequisite to IS-200, so the courses should be taken in numerical order. All study materials as well as the final examination can be downloaded before taking the courses.

Faced with taking three, mandatory on-line courses can seem somewhat daunting. Especially if it has been a long time since you have taken any courses with an actual final exam. I can tell you how I did it, which may help you get started on the task.

To get started go to the FEMA Emergency Management Institute website at <http://training.fema.gov/IS/crslst.asp>. All of the materials you need are there. The first thing you will notice is that there is more than one version of IS-100 and IS-200. Just pick the first one for each number and you will have the correct one. IS-700.a is the only version available.

Open each course and download the materials you will need for study. You need the Final Exam, Student PowerPoint files, Student Videos, and the complete Student Manual. IS-200 does not have separate video files so for that one you have to use the Interactive Web-Based Course. For IS-100 and 700, the separate video files are enough.

Print out the final exam questions for each course. Using a yellow high-liter, highlight all the questions. That will make it easy to quickly review the questions you need the answers for. Then start IS-100.b by watching all the PowerPoint presentations in order. After you have studied the PPT's, watch each video in order. I found it easier for me to then go back and watch the PPT's again. While watching the PPT's and videos, keep an eye on the exam questions so you can mark the answer when you run across one of them. Most answers are verbatim from the course materials. Be careful as some of the questions seem to have more than one correct answer. When you have filled in all the answers, take the final exam. If there are still questions you don't have an answer for, go to the Student Manual. Be sure and print out each page when you complete it as instructed.

Do the same thing for IS-200 and IS-700, except that for IS-200 you have to use the Interactive Video as discussed above. It will take a couple of business days for your certificate(s) to be sent to you in PDF format.

To give you an idea of the time involved, I took each course on sequential days. I started IS-100 on Friday, and finished IS-700 on Sunday. I probably spent three or four hours for each course, but not all at one time. I would work on it for a while then go do something else for a while. It's difficult for someone like me to concentrate on that kind of material for a long time. It's certainly not like reading a Vince Flynn novel.

I hope this will be of some help to you in getting your certificates. Good luck. ■

73, Dick – W6CCD

Need Cards Checked for ARRL Operating Awards?

Jim Zimmerman, N6KZ can check your QSL cards for DXCC, WAS, VUCC, WAC, etc.

For information contact Jim at: (928) 713-0542.

Jim's QTH is at: 778 Grapevine Lane,
Prescott, AZ 86305.

Upcoming Events

- **September 8, 2012** - March of Dimes March for Babies.
- **September 16, 2012** - Skull Valley Loop Challenge.
- **September 22, 2012** - Tour de Pee Vee 1/2 Marathon.
- **September 28 - 29, 2012** - Prescott Rally.
- **September 29, 2012** - Groom Creek Classic 1/2 Marathon.
- **October 20, 2012** - Step Out Walk to Stop Diabetes.



Congratulations Terry for a well-deserved Ham of the Year award!



**Yavapai Amateur Radio Club
P.O. Box 11994
Prescott, AZ 86304**

April 23, 2012

Amateur Radio Council of Arizona
Ham of the Year 2012 Nomination
16845 N. 29th Avenue #312
Phoenix, Az. 85053-3041

Ladies and Gentlemen,

It is with great respect and pride that the Yavapai Amateur Radio Club offers Mr. Terry Pemberton, KB7TRE, in consideration for 2012 Ham of the Year.

Twenty years ago, Mr. Pemberton received his amateur license after hearing about the possibility of the students at Granite Mountain Middle School being chosen to make contact with the astronauts of STS-65 via amateur radio. He has directly affected hundreds of hams, and exposed thousands of youth and adults to the world of Amateur Radio. As a teacher for the Prescott Unified School District, he has sponsored an amateur radio/technology program for his students and parents. His 35 years of classroom experience lends him voice of authority and commands attention of those around him. Since the 1994 school year, he has offered benefits of a ham radio club in his classroom, which received their own club station license in 2008 (K7GMG). Each year, Mr. Pemberton and his students offer displays and demonstrations to the entire school district at the County Education Fair, and for 15 consecutive years have installed a temporary station and demonstrated amateur radio to the public at Sharlot Hall Museum during Statehood Day.

Terry has been an essential leader in our Club, holding all the elected positions and service as a director over the years. He has provided a consistent meeting place and supports most club events and activities. He is an active Ares/Races member and co-founder of the now annual NRA birthday special event, which is the one day a year he takes away from his students. The success rate of students becoming licensed is extraordinary. His activities have exposed thousands to ham radio, electronics, communications and technology which over the next decades, will continue to add to our ranks, as they now have positive reference to return when situations allow. He leads our clubs philanthropic activities, acts as coordinator and repository for information, materials, training aids and amateur radio equipment for central Arizona schools, and he embodies the fraternal nature of hams.

Joined by his wife Sandy, KD7GJH, and daughter Sherri, KF7DRE, is educating yet another generation on the attributes of communications and ham radio.

Terry always does the 'extra' share, is an untiring devotee to the art of radio, and bestowing the honor of Ham of the Year to him would not only recognize his continual actions to benefit amateur radio in Arizona, but bring honor to all Arizona hams by extolling the professional among us.

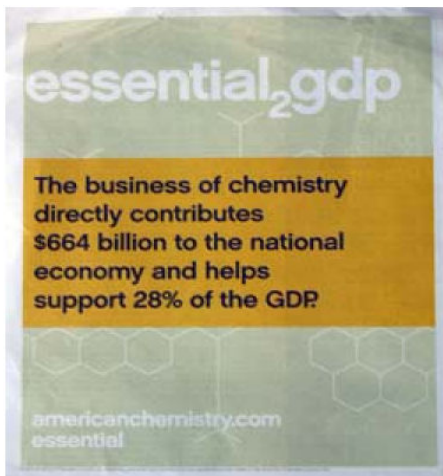
Respectfully submitted,

Tom Griswold, WN7E – Treasurer - Yavapai Amateur Radio Club

Essential₂ sliding

By Malcolm, NM9J -- from the "PCARA Update"

Since June 2009, the American Chemistry Council has been de-emphasizing its \$20 million per year "Essential₂" advertising campaign. As a result, you will no longer be seeing advertisements in magazines and on TV explaining how chemistry and chemical products are essential to everyday life. But there are still plenty of chemicals in the radio shack and workshop worth a mention in these pages — so here goes on our next installment.



One of the last "Essential₂" print ads published by the American Chemistry Council, from May 2009.

Back in July 2008, we took a look at motor oils and the additive packages that help maintain their desirable properties. The oil acts as a lubricant, allowing moving components to slide past each other without seizing up. Oils are fine for gasoline engines, but there are places around the radio shack where a liquid lubricant such as motor oil would be most unsuitable. Liquid lubricants have their problems — a low viscosity liquid could flow and drip away from moving parts, and the exposed surface of a liquid lubricant could trap dust and dirt.

In place of a liquid lubricant, we can substitute a semi-solid lubricant. One example is a petroleum jelly, which is a blend of mineral oil, paraffin and microcrystalline waxes. The beginnings of this product go back to 1859 when a young chemist from Brooklyn named Robert Chesebrough was visiting a Pennsylvania oil well. Chesebrough noted that the oil workers were applying a dark, waxy residue from the drill to their skin to speed up healing of cuts and burns.



Robert Chesebrough

He took some of the "rod wax" back with him and found that he could refine it by vacuum distillation, producing a light-colored gel. Chesebrough opened the first factory for his new product in Brooklyn in 1872. It was widely sold as



Early Vaseline bottle

Vaseline to encourage healing and protection of the skin. Vaseline's melting point is just above body temperature, so it melts into the skin, flowing into spaces between cells and other gaps. The thin film of Vaseline protects the surface of wounds from infection by bacteria.

As well as protecting the skin, Vaseline can prove useful around the shack and around the home. If you have light fittings that tend to seize or corrode, a little dab of Vaseline on the screw threads will stop them seizing when it's time to remove the bulb. This can be especially useful for outdoor light fittings. Nuts and bolts can also be prevented from rusting by applying a thin coat of Vaseline to their threads before use. Lead acid batteries can suffer corrosion around their terminals — a thin layer of Vaseline applied to the battery posts before connectors are tightened down will fix the problem. If the terminals were already corroded, clean with a wire brush and sodium bicarbonate solution beforehand.

In these types of electrical contact application, petroleum jelly is superior to silicone grease. As mentioned previously, silicone grease has a tendency to decompose to non-conducting silica whenever there is arcing at the electrical contacts.

If you have a rubber gasket that is not sealing properly, clean the surfaces and coat the rubber with a little Vaseline before tightening the fitting.



Vaseline from the UK

To finish off, what of Robert Chesebrough's Brooklyn company? It went on to open manufacturing plants in Europe, Canada, and Africa. Vaseline was used in both World Wars to treat minor cuts and burns. In 1955, Chesebrough Manufacturing Co. merged with cosmetics manufacturer Pond's Extract Company to form Chesebrough-Ponds, Inc. And in 1987 Chesebrough-Ponds was acquired by the Anglo-Dutch company Unilever.

- NM9J

Area Repeaters

Weekly Breakfasts



Wed. Morning Breakfast:

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

Breakfast at Masonic Lodge: 3rd Saturday of each Month at 9:00 a.m.

(1280 Willow Creek Road,

2nd Floor; above Bank of America)

informal – all are invited

* Location data (per WGS84) provided

by Fred Zimmermann, N7PJM

| Freq. | PL | Location | Owner/ Club | Auto- Patch | Links | Vo IP | Notes: |
|-----------|---------|--------------------|----------------|----------------|-------------------|----------|--|
| 52.560- | 100.0 | Mt. Union | N7NGM | | | IRLP | Node 3301 |
| 144.390 | Simplex | | | | | | APRS- www.aprs.fi |
| 145.290- | 127.3 | Mingus Mtn. | K7YCA | | | | ARES/RACES |
| 145.350- | 162.2 | Wildflower | W7QHC | | | | Dawn |
| 145.600 | Simplex | | | | | Echo | Node 266053 |
| 146.760- | 131.8 | Hayden Peak | N7SKO | | | | WECOM INC |
| 146.780- | 91.5 | Bill Williams Mtn. | K7NAZ | | | IRLP | BWMRC LITZ, 3178 |
| 146.880- | 100.0 | Prescott Heights | W7YRC | | | | YARC |
| 146.920- | 162.2 | Mount Ord | W7MDY | | | | ARA |
| 146.980- | 162.2 | Mt. Elden | W7ARA | | | | ARA |
| 147.000+ | 162.2 | Mingus Mt. | K7MRG | | | | MMRG |
| 147.140+ | 162.2 | Mt. Elden | W7ARA | | | | ARA |
| 147.220+ | 162.2 | Mingus Mtn | W7EI | | | | VVARA LITZ |
| 147.260+ | 103.5 | Mt. Union | K7YCA | | | | ARES/RACES |
| 147.260+ | 127.3 | Mt. Francis | K7YCA | | | | ARES/RACES |
| 147.360+ | 162.2 | Mt. Ord | W7MDY | | | | ARA |
| 224.080- | 156.7 | Mt. Union | KJ7DX | | | | Desert Intertie |
| 442.150+ | 100.0 | Mingus Mtn | WA7UID | | | | MMRG |
| 448.475- | 100 | Mt. Elden | W7ARA | | | | ARA |
| 448.875- | 100.0 | Mt. Elden | W7ARA | | | | ARA |
| 449.250- | 192.8 | Chino Valley | K7POF | | | | |
| 449.675- | 88.50 | Prescott Airport | WB7BYV | | Linked to P Mtn. | | |
| 449.750- | 123.0 | Bill Williams | K7NAZ | | Linked to Win-Sys | | |
| 927.0875- | 151.4 | Mingus Mtn | WB7BYV | | | | |
| 927.3875- | 151.4 | Prescott | WB7BYV | | | Echo | ARA |

Y.A.R.C. IRLP NODE

Node Number 3182

146.100 MHz No PL Tone



T-Hunt Frequencies:

Primary - 145.100 MHz

Secondary - 146.565 MHz

For more Repeater Information & Listings refer

to:

- www.w7ara.org/Web/
- www.azrepeaters.net
- 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 Dick Hughes, W6CCD, our Webmaster

