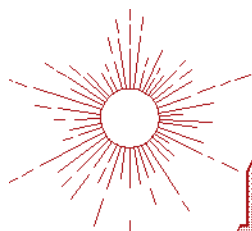


ADAW

4529 W. Park Place
Glendale, AZ 85306-1512



ADAW

Arizona Desert Aire Waves

Vol 36, No 11/12

Nov/Dec 2011

ARE YOUR DUES CURRENT?

**Check Your Club's Listing
on Page 2 for Information.**

**Be sure your club has your current
email and/or mailing address.**

CLUB MEETINGS SCHEDULE

SARC
Dec 7th
SCC Culinary Arts Facility
7:00 PM

AARC
Dec 8th
Red Cross Bldg. - Phx
7:30 PM

OPRC
Dec 14th
AZ Bldg at Tucson Medical Ctr
7:15 PM

CARL
TBA
AZ Science Center
TBA

QCWA
Dec 10th
Horney Toad Restaurant
12:00 Noon

TBARC
Dec 15th
Thunderbird School
of Global Mgmt
7:00 PM

ADAW MEMBER CLUBS

ARIZONA AMATEUR RADIO CLUB

The Arizona Amateur Radio Club meets on the **SECOND THURSDAY** of each month at 7:30 p.m. in the Red Cross Building, located at 6135 N. Black Canyon Hwy., Phoenix (N. of Bethany Home Rd., E. side of Freeway on frontage Rd.).

President	Gary Hamman	K7GH	602.996.8148
Vice President	Bob Milburn	KB7TWF	480.991.1702
Secretary	Leslie Hickey	N5LDH	602.246.4303
Treasurer	Bob Hodges	K7JJT	602.274.1647
Red Cross Liason	Larry Penrod	AC7FC	602.955.0349
ARCA Liason	Dick Baum	NS7A	602.870.1135
Membership	Bob Hodges	K7JJT	602.274.1647

AARC c/o Bob Hodges, K7JJT, 1432 E Colter St., Phoenix, AZ 85014-3011. DUES: \$15.00/YR, Prorated (\$18.00 Family, \$9.00 Student), MEMBERSHIP YEAR BEGINS FEB. 1.

CENTER FOR AMATEUR RADIO LEARNING

The Center for Amateur Radio Learning is a hands-on amateur radio station, W7ASC, located within the Arizona Science Center at 600 E. Washington, Phoenix. Board meetings are held the last month of each quarter at the AZ Science Center. Annual meeting for all volunteers is held the **THIRD SATURDAY** of January. Watch ADAW for details.

President	Bob Burleson	KG7QJ	480.961.1109
Vice President	Tom Salt	AD7PM	480.926.0348
Secretary	John O'Neal	K7JP	480.345.7800
Treasurer	Larry Foster	KC0JON	480.767.0593
Board Members	Ray Waddoups	KE7FUM	480.654.9883
	David Zinder	W7PMD	602.358.7826
	Jordan Snell	KC7CWX	480.844.3744

Web Master, ARCA Rep - Roger Buel, W9NCQ - 602.493.7242
For information: Email to carl@w7asc.org or call Bob Burleson, KG7QJ at 480.961.1109. Web Site: <http://www.w7asc.org>

ADAW STAFF

PUBLISHER/EDITOR

Christine Kesauer N7PVL 602.843.0960

AARC EDITOR

Lori Cripps WA7EDI 602.955.7517

SARC EDITOR

Ed Nickerson NU7S 480.949.5162

CARL EDITOR

Bob Burleson KJ7QJ 480.961.1109

OPRC EDITOR

Ron Kalish N7SPW 520.207.3852

QCWA EDITOR

Robert McCuskey W7BV mccuskey@email.arizona.edu

TBARC EDITOR

Thelma Speed KF7MLX 602-252-4505

DISTRIBUTION

Mark Kesauer N7KKQ 602.843.0960

ADAW EMAIL

adawaz@arca-az.org

ADAW WEB SITE

www.adaw.org

SCOTTSDALE AMATEUR RADIO CLUB, INC.

The Scottsdale Amateur Radio Club meets the **FIRST WEDNESDAY** of each month at 7:30 p.m. in Room 8 at the new Scottsdale Senior Center located at 1700 N Granite Reef Road (west side of Granite Reef Rd., 50 yards north of McDowell Rd. Parking on site). The club also holds a net every Tuesday night at 7:00 p.m. on the 147.78/.18 repeater.

President	Paul Finell	W7EFQ	602.741.6563
Vice President	Bob Johnsen	K7TR	480.946.1427
Secretary	Ed Nickerson	NU7S	480.949.5162
Treasurer	Tom Barry	W7UF	480.998.8494
Past President	Bob Johnsen	K7TR	480.946.1427
Membership	Gerald Jacques	KE7GYM	480.239.8679
Board Members	Jerry Jacques	KE7GYM	480.239.8679
At-Large	Dreux Jacques	KB8YYA	
	Louis Schmitt	NQ7I	
	Alan Jensen	KE7FSD	
	Judy Jensen	KE7IXI	
	Stephen Thomas	KE7TLS	
	James Wasson	N7ELL	
	David Yee	N7AJR	

SARC, P. O. Box 10878, Scottsdale, AZ 85271-0878. Phone: 602.735.3988. DUES: \$20.00/YR, (\$10.00/Add'l Family Member).

OLD PUEBLO RADIO CLUB

The Old Pueblo Radio Club meets the **SECOND WEDNESDAY** of each month (except June, July and August) at 7:15 p.m. in the Arizona Building at Tucson Medical Center. Visitors are welcome.

President	Ron Kalish	N7SPW	520.207.3852
Vice President			
Treasurer	George Devich	N9IUK	520.760.0125
Board of Directors:			
	Bill Price	N7GUO	
	Ivan Settle	KB7USM	
	Cliff Hauser	KD6XH	
WebMaster	Ted Willis	AA7HX	520.790.3828
		(www.oprc.org)	
Trustees:	(all repeaters operating under the K7TRA call)		
Primary	Cliff Hauser	KD6XH	
		146.660, 146.820, 147.220-	
	Paul VanBeverhoudt	KA7LFX	224.06+
Secondary	Ted Willis	AA7HX	146.66-
	Ralph Turk	W7HSG	146.82-
	Paul VanBeverhoudt	KA7LFX	224.06+

Mailing address: OPRC, P.O. Box 42601, Tucson, AZ 85733-2601.
DUES: Individual - \$20.00/YR, Family - \$30.00/YR.

The *Arizona Desert Aire Waves* is published monthly and is the official news media of the sponsoring clubs. All news items, articles and inquires should be submitted to each club's editor. Any information and opinions printed herein are those of the contributors and are not necessarily those of the sponsoring clubs. Full permission is granted to quote from this publication providing credit is given to the individual contributor and the ADAW. ALL RIGHTS RESERVED. **Deadline is 10th of the month**

ADAW MEMBER CLUBS

QUARTER CENTURY WIRELESS ASSOCIATION CHAPTER 16 - BARRY M GOLDWATER ARIZONA CHAPTER

The Barry M Goldwater Arizona Chapter of the QCWA includes amateurs from all over Arizona. Four luncheon meetings are planned each year. The meeting months and locations are announced by newsletter, but generally follow the following schedule:

Spring Meeting	March/April	Tucson Area
Summer Meeting	June/July	Prescott Area
Fall Meeting	October	Phoenix Area
Holiday Meeting	December	Carefree Area

The AZ Chapter meets on the air every Sunday morning at 0700 MST (0730 during December and January) on 3890 +/- QRM.

President	Douglas Besemer, K0VPL	motoman1@aol.com
Vice President	Jean Jolkovski, W4CIH	jeanjol@hotmail.com
Sec/Treasurer	Robert McCuskey, W7BV	mccuskey@email.arizona.edu
Webmaster	Robert Smith, WB6ODR	lrsmith@cableone.net

AZ QCWA, Robert S. McCuskey, W7BV, Email: mccuskey@email.arizona.edu. DUES: \$7.00/year and current national QCWA membership. Web Site: <http://azqcwa.org>

THUNDERBIRD AMATEUR RADIO CLUB

The Thunderbird Amateur Radio Club meets the **THIRD THURSDAY** of each month at 7:00 p.m. at Thunderbird School of Global Management located near 59th Ave. and West Greenway Rd. (Enter at the light at Country Gables and 59th Ave. Follow the road to the staff parking lot. Proceed to the Snell Bldg. The meeting is held in room #29 or otherwise posted.)

President	Jim Puza	AE7JP
Vice President	Peter Decker	K7IJR
Secretary	Jack York	KE7VOU
Treasurer	Al Johnson	AE7GM
Directors:	Ken Croxton	KD7OWZ
	Israel Vincente	AD7ND
	Walt Reinert	N7GDP
Past President	Jack Lunsford	KD7RCJ

For further information about the ThunderBird Amateur Radio Club, send an e-mail to: info@w7tbc.org or call 602.493.7242.

License Testing Information

When you are ready to take an exam for an Amateur Radio license, there are Volunteer Examiners available to assist you. Each Applicant will need to bring a picture ID (some test sessions require two forms of identification). If you are upgrading your class of license, be sure to bring the original (and a copy) of your license and/or Certificate of Successful Completion of Examination (C.S.C.E.). There may be a fee required.

PLEASE NOTE: Dates, times, or locations may change. Call test session contact to confirm information. Walk-ins are permitted unless otherwise specified.

December Test Sessions

- Dec 1st** - Radio Society of Tucson -- 7:00 PM
Lighthouse YMCA, 2900 N Columbus Blvd, Tucson
Contact - Matthew Grossman 520.750.7189
Pre-Reg by email preferred - veregistration@rstclub.org
- Dec 3rd** - Un-sponsored -- 7:00 AM
Linden Fire Station, Hwy 260, approx mile post 335, Show Low
Contact - Cris McBride 928.205.3230
- Dec 3rd** - East Valley VE Team -- 9:00 AM
Mesa Community College, Dobson Rd. & Southern Ave., Mesa
Contact - Steve Gurley 480.704.3666
- Dec 10th** - Yuma ARC -- 9:00 AM
Yuma County Sheriff Office, 141 S 3rd Ave, Yuma
Contact - Robert Sidebottom 928.344.6469
No Walk-Ins - Must Pre-Register
- Dec 11th** - Rim Country ARC -- 1:00 PM
Heber/Overgaard Fire Dept, 2061 Lumber Valley Rd, Overgaard
Contact - Jerry Wyatt 602.509.8471
No Walk-Ins - Must Pre-Register
- Dec 19th** - East Valley VE Team -- 6:00 PM
City of Mesa Bldg, 640 N Mesa Dr, Mesa
Contact - Steve Gurley 480.704.3666



Pineberry Creations
pineberryboutique.etsy.com
pineberrycreations.etsy.com

Unique Handmade Jewelry and Gift Items
 at Affordable Prices
pineberryboutique@me.com or pineberrycreations@me.com

Happy Holidays!

ADAW



Public Service Calendar

EVENT	LOCATION	DATE
Fiesta Bowl Half Marathon	Scottsdale	12/04/11
JR ROTC Orienteering	First Water Trail Head	12/10/11
JROTC Oreinteering at Bomboy Mine	Northwest of Superior	01/28/12
McDowell Sonoran Challenge	McDowell Mtn Park (Dynamite Blvd & Alma School Rd)	01/28/12
Runner's Den Road Classic	Paradise Valley Mall, Southeastern Phoenix	02/12/12
Mesquite Canyon 50 K	White Tanks Regional Pk	03/11/12
March of Dimes March for Babies	Wesley Bolin Plaza (State Capitol)	04/14/12
Highline Trail Run	Near Payson	04/21/12
Pat's Run	Phoenix Zoo	04/21/12
Cactus Cha-Cha	White Tanks Mtn Park	10/13/12

November 2011

“I got my Cell, my CB . . .” Has Ham Radio been replaced?

This might be a good time to work on our advanced Math skills. If we have this right, there are now about 700 thousand Hams in the USA. And there are roughly 300 million total residents? If we have not lost a zero or two that leaves more than 299 million non-Hams wandering around. Are you beginning to get the picture? Out of that huge unlicensed multitude, not too many have even heard of Ham radio.

There are, of course, some lucky souls who have or had a Ham in the family. They see the “Ham Shack” sign and stop by to tell about Uncle Charlie, or Grandpa, and the room full of funny noises and stuff with lots of dials and meters. These folks provide a bright spot that shines through the normal Haboob-like dust cloud that comes in on the shoulders of many visitors. Of course we can always look up Uncle Charlie (or grandpa) on QRZ. The visitors get a kick out of seeing their relatives on that data base. And then there is the Ham locator at <http://www.vanityhq.com/> (click on ham locator), enter a zip code and *SUPRIZE!* lots of Hams show up right next door!

Every Ham should have the chance to spend some time as a Volunteer at the Ham Shack. During that time the volunteer will begin to understand the reason that we rarely make any headway at the City Council or at other legislative bodies. In the larger scene Hams are invisible, seldom mentioned during fires, floods, hurricanes, or other disasters. The public sometimes views Hams as fanatics and eccentrics. Listen to the questions and comments.

“Ham radio? Aren’t you the people with those 200 foot towers?”

“I remember hearing about Ham radio. Been replaced by CB, right?”

“Had a neighbor down the street who was into that. Kept knocking out our TV and getting into our phone.”

“Amateur radio? That’s a joke! Have my cell and the Internet. Much better technology than your noisy radio. And Morse code? Give me a break.”

And so it goes. The majority view. How can we enlighten these poor misguided citizens? But where do we start?

We start with those open minds that have not been biased against new experiences. Boy and Girl scouts seek to learn, so we welcome them when they stop by (JOTA every October). Kids find sending their name in Morse Code is fun. We give out “I Sent My Name In Morse Code” stickers and code sheets with their names on them to reinforce the experience. Some children are too shy for a demonstration QSO, but some just love it, especially teenagers trying out PSK31 “texting.” So we continue to offer and hope that a fun conversation with a voice from a distant station will leave a happy and lasting impression.

There is more to the Volunteer experience, of course. Every day and every visitor is different. Each Volunteer is different, too. Just as with so many other activities, the return depends, to a large extent,

To sign up send email to: mcecg@yahoo.com
 MCECG on the Web MCECG.ORG for event sign up
 For information on events, join - azhamserve@egroups.com

Jim Pierce, N7QVW - 623.551.1204 - jim@n7qv.net
 Brian McCarthy, N7TUQ - 623.486.0507 - n7tuq@arrl.net



upon the input. The tools are available; the misinformed multitudes challenge the Volunteer.

I have been licensed for a few years and I really thought that I had the full spectrum of Ham activity. I was wrong!

Spending time at W7ASC has given me a new outlook on the value that comes with a license. When you see those young (and not so young) faces light up after earning a name-in-Morse code certificate, or after that first guest QSO, you begin to get the picture. I must warn you that it can be addictive.

73 de W4CIH Jean

A few additional updates: the Tech License class started October 15th at MCC. We have 11 signed up with one drop out. No too bad considering there are about three more Tech classes in progress (Mesa, ASU, and others . . .)

The W7ASC Shack can always use new volunteers. Spread the word at your Ham Club. Call 480-961-1109 and volunteer now. We have a 20 minute CARL PPT Presentation available with pictures of the new remodeled Harkins Ham Shack that can be presented to your club.

—73 Bob Burleson KG7QJ
 480-961-1109 kg7qj@cox.net



December 2011

Who is C.A.R.L.? And what is W7ASC?

The activity level within W7ASC is trending upwards. The Arizona Science Center has noticed us. After all, we have been there more than 12 years! They realize that they can leverage on our presence and further improve the “guest experience.” There is activity afoot to let people know that there really is an Amateur Radio Station, hidden in that “Your Digital World” gallery. We may soon see improved Morse Code stickers and even better looking Guest Operator certificates. But wait! There’s more!

Following discussions on the topic, we all realize that reference to the “Ham Shack” is really an insider’s thing - Ham speak. Sure! We Hams and our families know what that means. If you read our last Newsletters, you probably now realize that licensed Amateurs are in the minority. In Arizona that are about three Hams for every thousand residents. As we mentioned in last month’s column the FCC reports that there are now more than 700,000 Hams in the US. See <http://www.foxnews.com/scitech/2011/11/17/radio-days-are-back-ham-radio-licenses-at-all-time-high/#> for the Fox News bit on Ham Radio.

We are trying to bring some of those non-Hams into the Station. Inviting them into a “Ham Shack” generally has no meaning for those poor uninformed masses.

“What,” they might think, “is Radio Shack doing in the Science Center?” While we are still the “Harkins Ham Shack,” and probably will so remain far into the future, for benefit of the non-Ham Public, we should be called an “Amateur Radio Station,” in print, in conversation and on the air.

As one of us (probably Ken, KM3N) put it, our first challenge is to get the visitors to stop and enter the station! So we will see if “Radio station” will resonate (yes - pun intended) to increase the number of conversational exchanges.

C.A.R.L. is our official club abbreviation (Center for Amateur Radio Learning). The underlying intent was, and still is, to educate. C.A.R.L. members have visited schools, made presentations and regular lectures at ASC. In that same spirit, volunteers at the Station should be prepared to provide visitors with a few facts about communication technology that, in some ways, connects to their own knowledge and experience.

Asking a young person if they are interested in obtaining a license, or even a Ham license, usually results in a blank expression or a quick exit. So give them something that they can absorb. The Morse code demonstration is a good start. After all, it is rooted in the early Telegraph, a great story. Here is the device that ended the Pony Express. Old! 170 years old. Required wire connection, and that wire finally was completed across the nation 150 years ago. So it only took 20 years from invention to nationwide acceptance. Great story. This was the first “Social Network” for it allowed people to increase the frequency of discretionary messaging! It brought both good news, such as births and marriages, as well as bad news of death and sickness. The Telegraph knit the nation together with widespread news distribution. Sports, finance and politics were now reported to any location that had connection to a Telegraph wire. In “real-time!”

We accept a system of time zones. The Station computers can show the zone borders. The Railroad drove the creation of time

zones, but the Telegraph pushed it further into general acceptance. The Telegraph gave the nation the means to synchronize clocks.

The Morse code that we teach, and that we hear on the radio, is not the first Morse. Since the telegraph did not generate a tone, the first Code was a series of clicks. When the key closed the circuit, the armature was pulled down to the solenoid, when it emitted a distinctive click. When the key was released, the armature was pulled away from the solenoid by a spring. When it hit the upper stop, there was another click. Nontrivial fact: the Telegraph was the first system to use electricity for communication. To hear a sample of this go to - <http://www.youtube.com/watch?v=-St7jTk5ciw>

While none of this leads directly to Amateur radio, the facts and history may be sufficiently compelling to allow the volunteer to continue describing the path that led to Radio and the avocation now called Amateur or Ham.

Do you, the Volunteer, have a favorite tale that you have for the visitors? Share it with this writer so that it may appear in future W7ASC Newsletters. And thus enrich the instructor’s bag of enticements.

73 de W4CIH Jean





Our Tech License class started October 15th at MCC and is now over for this year. We had 10 students signed up for this last class and so far two have dropped and three have already taken their tests and passed the Tech and General! More after the Superstition Hamfest 12/3. The next Tech class will be in February 2012.

The W7ASC Shack can always use new volunteers. Spread the word at your Ham Club. Call 480-961-1109 and volunteer now. We have a 20 minute CARL PPT Presentation available with pictures of the new remodeled Harkins Ham Shack that can be presented to your club.

—73 Bob Burleson KG7QJ
480-961-1109 kg7qj@cox.net

ADAW

R.J. CARLI ENGINEERING CORP

 ELECTRICAL CONSULTING	 RESIDENTIAL CONSULTING	7311 E. STETSON DRIVE SCOTTSDALE, ARIZONA 85251
 MECHANICAL CONSULTING	 PLUMBING CONSULTING	RAYMOND J. CARLI, P.E. ELECTRICAL ENGINEER W7GNE (480) 941-8810 (OFF.) (480) 945-7020 (FAX)

If anyone is considering a major radio shack, workshop, addition or going into business for yourself, I am offering professional Electrical, Mechanical and Plumbing Engineering services to radio club members at a 20% discount for residential property, and 10% discount for commercial property. Talking is always free.

SCOTTSDALE AMATEUR RADIO CLUB, INC.



Club Station: WA7APE
Club Repeaters: 147.78/.18 & 445.00/440.00

November 2011

Hi Guys,

Well, the heat keeps on coming, but it is not only the weather I am talking about. If you haven't checked your HF lately, you may be in for a pleasant surprise. The 10 and 15 meter bands have been open and a lot of hams are taking advantage of it. The solar index is higher than it has been for a long time. So, if you want some fun, dust off that old rig and give it a try.

I have a question for you guys. Are you going to be in the club contest on building some sort of electronic device from a kit? This sounds like a lot of fun. There are a lot of neat kits out there that can be useful around the shack. I am planning on doing an antenna tuner of some sort. Sounds like fun and this will be useful when I am camping and using a temporary wire antenna. The club officers will review the entries and award the winner with a prize of "great worth." All entries will be judged for that neat, orderly appearance of the assembly and if it works, that's even better. So check it out and give it a try.

The program for October was by Rich Tejera K7IRT on satellite radio. Rich gave us an in depth look at the technical parts of satellite orbits. This was a very good program, but because of the time constraints at the Senior Center, he did not have enough time for the finale. I still got a good idea where to look for "Oscar" next time we are trying for a contact.

The program for November will be by Dick Pache, K2LCT, on GPS systems. We just heard about the satellites that support the GPS system in last months program and this program will elaborate on them. Great timing.

Last month, I told you about the tower donation from the Murphy estate. We finally got the work party together to take it down. It was Saturday, October 8, 2011 and the weather was perfect. Our intrepid leader, Club President, Paul Finell, W7EFQ, led nine dedicated workers to the site for the removal of the antenna and tower. But there was a major problem. The gin pole and the guy to climb the tower did not make the party. So, it was postponed until next Saturday, October 15. This time we had the gin pole, but only six workers. They were Paul Finell, W7EFQ, Jerry Jacques, KE7GYM, Alan Jensen, KE7FSD, and his son Pete, Bonnie Nickerson, N7TUU and Ed Nickerson, WU7S. The pictures say it all. Pete did the climbing and burned off the studs. He was terrific. Bonnie took the pictures and helped loading and unloading the truck. Jerry climbed the tower to remove some lights that were half way up and helped with lines and loading. Alan handled lines and directed his son on the climb

and helped with the dismantling. And I stood around, looking official in my yellow hard hat and helping wherever I could. I am still recovering from the last tower party. The work took four plus hours and we were all beat, but the job was well done.

The club has a weekly net on 147.18 with a PL of 162.2 or on 440.00 with a PL of 100. The net is 7:00 P.M. on Tuesday evening. It is a great chance for you to try out your 2-meter or 440 radio. So join us on Tuesday evenings for the fun. And if you would like to try your hand at being net control, please let me know and we will be glad to give you a try.

Well, that is all I have for now. Until next month, keep on hamming, be well and enjoy life.

73 Ed WU7S
enickerson427@aol.com



**Jerry Jacques,
KC7GYM**



Pete Jensen

SCOTTSDALE AMATEUR RADIO CLUB, INC.



Club Station: WA7APE
Club Repeaters: 147.78/.18 & 445.00/440.00

December 2011

Hi Guys,

The holiday season is upon us at last. Every year I look forward to this time of year and it is not only because it is much cooler. Of course, that is a plus! I like the family gatherings and the FOOD. We enjoy all the old family favorites and many new ones. Our family keeps on growing with grand children and great grand children. They bring me much joy.

The program for the November General Meeting was by Dick Pache, K2LCT on GPS systems. This was a great program and I learned a lot about the system. Before this meeting I thought I knew everything about it but I was wrong. I proved that you can teach an old dog something new.

The December meeting is going to be our Annual Christmas Party and Award Banquet. It will be held at the Scottsdale Community College Culinary Arts facility, 9000 E. Chaparral Rd. in Scottsdale. This year we will again be sharing the evening with the MARCA club. They are a great group of hams and they help make the evening special.

The speaker will be Mr. Gary Dirks from ASU and the subject will be Light Energy. The school puts on a fabulous five-course gourmet dinner that always satisfies. This is a great gathering of Hams and their spouses and a great way to start the season.

I have been trying to lose some weight this year and get back into shape since my unfortunate accident. The back has healed up and I no longer have pain to complain about. Going to physical therapy really did the trick. It was probably responsible for my weight loss as well. Now it is up to me to keep it off. And with the holidays coming that is going to be very difficult but I will work on it.

This is the Shopping Season and it is up to me to jump start the economy. There are so many terrific items to choose from out there. Just look at the magazines and flyers in the paper and you can see what I mean. Our family room TV has been acting up for over a year now and it is time to replace it. But with what? Sears has a great sale, but so does Costco and how about Fry's Electronics? My cell phone is an antique and so is my HF rig. They both work, but when I look at all these beautiful brochures I get excited. Then you add up the prices and WOW. I need to get a second job if I am going to splurge. That is just some of the things on my wish list, but Bonnie has a list at least that long and then there are our kids and their spouses, their kids and their kid's kids. Oh my! This is really going to be an expensive Shopping Season. The economy is going to improve with all this spending.

This year I purchased a new computer and the 2012 version of Auto Cad for my office. I thought it was a good time to replace my oldest computer and get up to date with the latest program. I quickly found out that the new computer with Windows 7 is not at all like Windows XP. I could not work with it very easily, so I broke down and bought a copy of Windows 7 for Dummies. That has helped a little, but not enough. I had the same trouble with the new architectural program. Much different from my older version. So, I

decided to take a class at SCC on using the new equipment. I know one of the instructors there and thought this would help me get up to speed with all this new stuff. The class at the school does not have the latest versions to work with, but they have helped me a great deal. I am the oldest person in this class. The rest of the students are just starting out on an architectural career and are surprised that someone with more than 40 years in the business would bother taking a class on the subject. I have had to juggle a lot of work in able to take the time to take this class, but it has been a lot of fun and well worth the effort. The class gets into some of the newer illustration programs and they are an added bonus to my new knowledge. I think I am going to get this new soft ware for my office. Again, this proves an old dog can learn new tricks. And it doesn't matter what you do to expand your knowledge. It keeps your brain active and keeps you out of the bars.

By the way, the 10-meter band is open again with the increased sun spots and a lot of fun. Give it a try and let me know how you do. And remember New Years Eve Straight Key night. Last year, the cord on my J-38 decided to malfunction so I missed the party. I am ready this year with two keys in case history repeats itself. See you there.

The club has a weekly net on 147.18 with a PL of 162.2 or on 440.00 with a PL of 100. The net is 7:00 P.M. on Tuesday evening. It is a great chance for you to try out your 2-meter or 440 radio. So join us on Tuesday evenings for the fun. And if you would like to try your hand at being net control, please let me know and we will be glad to give you a try.

Well, that is all I have for now. Until next month, keep on hamming, be well and enjoy life.

73 Ed WU7S
enickerson427@aol.com

ADAW

SARC CONSTANTS:

SARC is a 501 (c)-3 club. That means all donations are fully tax deductible. Contact Paul Finnell, W7EFQ at 602.741.6563 for information on estate donations and equipment pick-up.

For membership information, call Gerald Jacques, KE7GYM at 480.239.8679. Please send address change requests to Gerald no later than the 7th of the month in which you would like the change to occur.

To field check QSL cards for most ARRL awards, call Nick Sues, W7ZMD at 602.992.4133.





applicants passed their tests. Certainly VEs deserve many accolades for their service, especially when they travel 100 miles to do their job as Joe did.

73,
Lori, WA7EDI
(602) 955-7517
cripp@cybertrails.com

November 2011

It will probably be Halloween when you receive this copy of ADAW, and the witches and goblins will be prowling around in a rather cooler Phoenix than the one we had been experiencing. The cool weather is welcome, of course, and it has been a pleasure to be reunited with some of our members like NS7A, Dick Baum, who escaped the Phoenix heat to his Flagstaff abode for the summer. Welcome back, Dick. John Kainrath, K7JHK, also left the valley for a couple weeks. He and his newly-retired XYL took a 3-week trip to Germany, and the emails told us that one day he was swimming in the Mediterranean Sea and two days later he was throwing snowballs in Innsbruck, Austria. He also made contact to Phoenix via Echo Link with George, KQ7C, and his morning group. John didn't check into the 2-meter net at 7:30 P.M., though. I guess the idea of waking up in the middle of the night was not a pleasant idea for John. At any rate, it is good to have our travelers back in the fold.

September 12-15 was an especially busy week for some of our members. During that period they were involved in what was called the Vital Connection exercise. The American Red Cross Emergency Response Vehicle (ERV) was part of the several vehicles that were being used during this emergency practice exercise. Member Steve Tolnai, W7WSV, operated the radio at the Red Cross Building on Tuesday, the 13th, and talked to the Red Cross ERV. Wednesday, the 14th, was the prime day of the exercise, since that was when the scenario was run. Thursday was the evaluation day for the exercise, and AARC President Gary Hamman, K7GH, was one of the evaluators. This exercise was a preparation for the Vigilant Guard Emergency Preparedness Exercise which is scheduled for November.

VEs, what is the largest group of applicants you remember testing? I was surprised to hear the rumor about the testing session in Queen Creek on Saturday, October 8. Eighty applicants were expected, but the final count was thirty-nine, which still is quite a large number to handle at one testing session. Joe Cutitta, W0SLL, from our AARC was one of the 16 VEs testing that evening. With the help of two non-certified 16-year-old amateur extras who served as gofers, the group finished testing in two hours. Thirty-five of the





December 2011

On November 3 and 4 the Valley was deluged with emergency situations. Fortunately they were only simulated emergencies, and thankfully these simulated emergencies were valuable practice situations for what could someday be real situations. The exercise was the Vigilant Guard Emergency Preparedness Exercise. Vigilant Guard Arizona is a full scale, statewide exercise sponsored by the Arizona Department of Emergency and Military Affairs designed to ensure effective coordination between local, state, private sector, non governmental organizations and federal partners. Vigilant Guard Arizona focused on the coordinated response to widespread flooding and an improvised nuclear device detonation in the Phoenix metropolitan area. Several members of The Arizona Amateur Radio Club were involved in the exercise. President Gary Hamman, K7GH, worked at the state Emergency Operations Center (EOC), while Steve Tolnai, W7WSV; Bob Hodges, K7JJT; and Joe Cutitta, WØSLL, worked at the American Red Cross building EOC, handling traffic mainly to Flagstaff, concerning the situation here in the Valley. Several other members have volunteered to familiarize themselves with the Red Cross communications equipment as backup for emergency situations.

Talk of the simulated emergency operations brought to mind past experiences to both Bob Hodges, K7JJT, and Leslie Hickey, N5LDH. Both of them had been in similar exercises, Bob at Sky Harbor here in Phoenix, and Leslie in Connecticut. Leslie recalls setting up lighting on the tarmac at the airport during the dark hours of the night so that they could help crash victims into ambulances. Leslie had some experience with actual emergency conditions in September of 2005 when the Katrina hurricane resulted in the opening of the Veterans Memorial Coliseum to victims of the New Orleans disaster. She and her late husband Bill Hickey, N7WFH, spent several hours daily for a few weeks helping at the Coliseum.

Congratulations are in order for Joe Cutitta and his new bride, Verdamae, who tied the knot on October 14. Our best wishes to the happy couple.

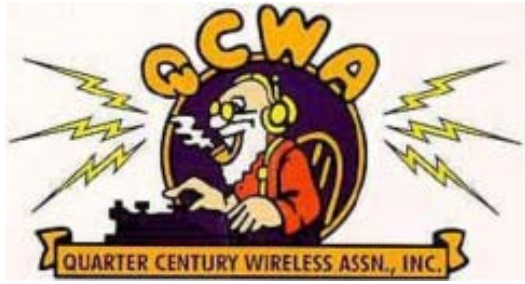
At our November meeting the program was about comparing HF transceivers. Many parameters must be considered before purchasing a transceiver, some of them nontechnical such as size, price, and whether the transceiver is user-friendly. Receiver and Transmitter parameters of a technical nature must also be considered. Several short videos were shown demonstrating differences in the various models. Gary Hamman, K7GH, distributed a spreadsheet he has prepared which compares many HF transceivers in detail. If you would be interested in receiving an email copy of this spreadsheet, you may write Gary at K7GH@arrl.org.

The December 8 meeting is our Christmas Potluck Dinner, including turkey and ham as well as all the other delicious dishes that our culinary experts create in their kitchens. George Cooney, KQ7C, will be calling Bingo in his own unique way. This is a special occasion at which we get to see not only our members but their families. I'm sure you don't want to miss this dinner.

73,
Lori Cripps, WA7EDI
(602) 955-7517
cripps@cybertrails.com



ADAW



CHAPTER 16

BARRY M. GOLDWATER ARIZONA CHAPTER

November 2011

Nineteen members and guests attended the Fall meeting at Monti's La Casa Vieja Restaurant in Tempe on Saturday, October 15th. President Doug Besemer, KØVPL, led introductions around the room after which a delicious lunch featuring a choice of sea bass, chicken breast, or New York steak for the entree was enjoyed by all. During the dessert, Vice President Jean Jolkovski introduced our speaker, Christopher Dean, KD7KEN, who gave a very interesting talk about "The Rise, Fall and Return of Communication Methods in Optical Wavelengths." A summary of his remarks follow.

When Samuel Morse created his code system, he revolutionized the world of wire-telegraphy, and later, wireless telegraphy. The invention of Morse Code and the telegraph created a system of reliable long distance communication which virtually rendered the Pony Express obsolete overnight and represented the culmination of centuries of technological progress. As an idea, it had antecedents throughout the world, from the Southwestern United States, to the empire of the Aztecs, from a collection of City-States in Greece, to the vast imperium centered in Rome and Karakorum. Yet Morse's invention could be adapted to other forms of communication. The use of reflected light (heliograph) and the adaptation of semaphore flags could all readily utilize the new system of communication. Christopher's presentation reviewed the history of visual wavelength communication from their origins around the world, to their eventual supremacy during the campaigns against the Boer and the Chiricahua, before their gradual replacement by the world's major armies following the Moro War and the numerous colonial conflicts around the world in the years before the First World War. The presentation also showed how international powers, such as Japan, adapted the Morse system to their unique alphabetical needs. Finally, coming full circle, the presentation ended with the mini-renaissance associated with the newest generation of optical communi-

cations equipment being utilized around the world as part of the Global War on Terror.

Following a period of questions and answers, Doug then conducted the annual business meeting during which there was discussion of developing a questionnaire for members to access their thoughts concerning Chapter activities and also further discussion of the formation of a 2-meter net utilizing one of the existing linked repeater systems. The later would be in addition to the existing 75-meter net on Sunday morning. The meeting was adjourned shortly after 2:30 P.M..

Our next luncheon meeting will be on Saturday, December 10th at 12:00 Noon at the Horney Toad Restaurant in Cave Creek. The speakers will be Grant Hays, AAA9O , Chief, Army MARS Operation, and Frank Karnes, AAA9AZ, Arizona Army MARS State Director. They will talk to us about "Army MARS Today."

73,

Bob McCuskey, W7BV
Sec./Treas., QCWA -AZ Chapter
mccuskey@email.arizona.edu

ADAW

www.thesignman.com
1-888-426-8241

BADGES - CAPS - LICENSE PLATES & FRAMES

The SignMan *of Baton Rouge*
rick@thesignman.com
P O Box 84107
Baton Rouge, LA 70884-4107

RUBBER STAMPS **PATCHES - DECALS**

COLOR BADGES, DESKSTANDS, KEYCHAINS, MUGS

Specializing in SKYWARN, EM, RACES, ARRL, ARES & CD Items



CHAPTER 16
BARRY M. GOLDWATER ARIZONA CHAPTER

December 2011

The next luncheon meeting of the AZ Chapter QCWA will be on Saturday, December 10th at 12 Noon at the Horney Toad Restaurant in Cave Creek. The speakers will be Grant Hays, AAA90 , Chief, Army MARS Operation, and Frank Karnes, AAA9AZ, Arizona Army MARS State Director. They will talk to us about “Army MARS Today.” This will be followed by a business meeting where we will be discussing the proposal to establish an Associate Membership for hams being licensed less than 25 years ago.

73,

Bob McCuskey, W7BV
Sec./Treas., QCWA -AZ Chapter
mccuskey@email.arizona.edu



Figure 1. Christopher Dean, KD7KEN demonstrating the use of flags and a lantern for optical signaling and partial display of optical signaling devices provided by John Elwood, WW7P.



Figure 2. October 2011 AZ Chapter QCWA meeting attendees. Back Row L-R: Richard Dean, N7ULQ; Christopher Dean, KD7KEN; Sec./Treas. Bob McCuskey, W7BV; Nancy Besemer, N QNB; President Doug Besemer, K VPL; Bob Smith, WB6ODR; Bill Hutchinson, W7WBH; Karen Heber; Edie Elwood; Harvey Zilm, AB7UT and friend; Vice President Jean Jolkovski, W4CIH; Front Row L-R: Jerry Higgins, W7ES; John Elwood, WW7P; Maria Swafford, KB7INH, Jim Swafford, W7FF; Ray Tyrrell, N6MY; Charles Heber, W7NLA.



November 2011

Greetings!

I have been whining that there is nothing to do this summer. I made several trips out of town but what I meant was there was nothing to do here at home. It was definitely too hot to do anything in the yard except water and that's done at 5:30 in the morning. It's almost too much of an effort to get dressed up to go out to eat or visit friends. It seems like lately everything that can go wrong with our house has gone wrong. Now the parquet is coming up in the living room because I moved some plants on the patio near the sliding glass door and when I watered them water ran into the house and caused the floor to buckle. What a mess.

But last Saturday was fun. I walked out in the morning to get the paper. The air was almost cool. It was only going to be 95 degrees. Hot be damned! This was almost a tolerable temperature.

Now, I was scheduled to be in class from nine to noon today. I should be studying for my general license, but how could I pass up a day like this? Today is also the Fox and Hounds Hunt. It wasn't a hard decision to make.

I tried to think of what I would need. I wore Levi's, but forgo wearing a hat. I should have taken one. I took water, a notebook and a couple of pencils. I decided I didn't need to be dragging around a big purse so I only took what I could carry in my pockets, money, driver's license and Chap Stick.

I arrived at the park about 7:30. Club members were gathered around talking, unloading their antennas, greeting each other. Anticipation was in the air. I told Walt N7GDP that I just wanted to observe. He was kind enough to tell me I could ride with him and Thomas KD7UGY. Two of the students who were in the Tech class were there, Angel and Clinton. I asked them to ask the teacher to please excuse me from class.

By 7:54 everyone was ready. Engines were started. Everyone had split themselves into teams. Exactly at 8:00 A.M. the first signal was given. People were scrambling. Doors were slamming. Someone was actually whooping. It reminded me of the scene in the movie "Rebel Without A Cause" when the drag race started. No one cared where the others went. Every driver had an idea where the fox was and that's where they were going.

Walt took off like a bat. "Where are we going?" shouted Thomas. The windows were down. "I have an idea," answered Walt.

"I think they are north of here. That signal came from the northeast."

We raced to 51st St., then to Shea, south on Tatum, skidded into a county maintenance yard. Thomas and Walt jumped out, flung open the back, pulled out the antenna and started moving in circles.

"It's this way!" They threw the antenna into the cargo area, flung

themselves back into the car and we were off again. East. Lincoln, south Invergordon, slam on the brakes, jump out, the signal was already sounding. Whirl around, holler at each other.

"It's that way."

"No, it looks more like it's this way."

"The signals stopped. Get in and we'll try this way." Back to Lincoln, Scottsdale Road.

"It has to be here somewhere."

"It's time for the signal. Get ready to bail out."

West on Chaparrel, jag over on 64 St. Brake, out of the car. Twirling. "See it points this way. Get in, Get in, Get in."

West on Camelback, south on 44th St., east on Indian School, north on 48th St.

"It has to be near here. The signal is so strong. Let's try up that road?"

It was beautiful, like being on top of a roller coaster. We could see over the whole city. I didn't even know this road existed. I didn't know roads could be built at an angle like this. Just like going up in a roller coaster, however, you have to come down. It took every bit of courage I have not to scream, or more likely NOT to _____!

By now the fox was getting tired of waiting for someone to find him. He began coming on the radio.

"Hey, you guys, I'm getting tired of sitting out here. I'm going to signal more often."

Soon he was signaling every minute and silent every other minute. I began to get the feeling he was going to broadcast constantly.

Someone finally begged, "Please, give us a hint."

"I'm west. of Scottsdale Rd. and north of McDowell." replied Brad, the fox.

I checked my seat belt. The car zipped through traffic.

"Take this road. It runs parallel to Scottsdale Road."

Screeeech!!! S. on Scottsdale Road. West on McDowell. Back and Forth. Back and Forth.

"There! It has to be in there!"

"It can't be. They couldn't hide in the National Guard."

"They have to be. That's where the signal is strongest."

"There's no way they can be in there. There are men with guns on the gate."

Finally it came, a sigh, then, "I give."

"This is N7GDP. We'll meet you at the restaurant. Clear."

We got the back room at a Denney's. Everyone came. Lara KD6AYO and Bryan N6BG won first prize. Steve KB7NKB and Rob WA3TGF were second, Chris K6OZY, Rick K7 TEJ and Paul KE7NEA were third. Rick KF7REM and his son Ephraim were fourth.

Al AE7GM and Paula KD7TNB also thought the signal was coming from the north. They went to Paradise Valley, but made it back to have lunch with us. I don't know where Roger W9NCQ and Israel AD7ND went, but like most of us they made it back for the food.

What a great day. You shoulda been there!

73's

Thelma KF7MLX

ADAW



Event Calendar

December 2011

COME ONE!!! COME ALL!!!
COME EARLY!!! STAY LATE!!!

WE MOVED!!!

TBARC ANNOUNCES THE 2012 THUNDERBIRD
HAMFEST!!! TAILGATING PERMITTED!!!

WE MOVED!!!

WHERE: NORTHWEST COMMUNITY CHURCH
16615 N. 43rd Ave
Phoenix, AZ. 85053
Just S. of Bell Rd. on the E. side of 43rd Ave.

WHEN: Saturday, January 7, 2012 - 7:00 A.M. to 12:00
Noon

COST: Public Parking - \$2.00

INFO: DOOR PRIZES!!! Every half hour starting at 8:00
A.M.

VE TESTING ON-SITE!!! Classroom E 110 - 10:00 A.M. to
11:30 A.M. Fee \$15

SNACKS and BEVERAGES Available!!!

TALK IN: 146.700MHz., offset 600KHz., 162.2 PL
446.150MHz., offset 5MHz., 100 PL

ADDITIONAL INFO: Contact: hamfest @w7tbc.org

RULES: No Firearms, Alcohol or Drugs permitted. Please
park in designated areas only.

VENDORS: Commercial vendors may set up Friday evening
after 5:00 p.m. Open to Vendors at 5:30 a.m. Saturday.
Vendors Cost: \$10 per parking spot Vendors must supply
their own tables

December 3, 2011 - **Superstition Hamfest** - hosted by the Superstition Amateur Radio Club will be held at Mesa Community College, Dobson & Highway 60 in Mesa. Open 6:00 AM til 2:00 PM. VE Testing, Raffle Prizes, Food. Admission is \$1.00 - Children under 12 are free. Vendor parking spots are \$5.00 per lined spot. Visit the web site at <http://wb7tjd.org/hamfest/> for more information.

January 7, 2012 - **Thunderbird Hamfest** - hosted by the Thunderbird Amateur Radio Club will be held at Northwest Community Church, 16615 N 43rd Avenue in Phoenix. \$2.00 parking fee - Vendor spaces \$10.00 per parking space. Prizes, VE Testing, Snacks, Beverages. Talk in: 146.7000 MHZ, offset 600KHz, 162.2 PL or 446.150 MHz, offset 5 MHz, 100 PL. Contact co-chairman - Walt Reinert, N7GDP at 602.938.8219 or hamfest@w7tbc.org. for details.

February 17 - 18, 2012 - **ARRL Southwestern Division Convention** - hosted by the Yuma Amateur Radio Hamfest Organization will be held at the Yuma County Fairgrounds, 2520 E 32nd Street in Yuma. Hours - Friday, noon to 5:00 PM - Saturday, 8:00 AM to 5:00 PM. Buzzard barbecue, Saturday, 6:00 - 8:00 PM. ARCA meeting - Saturday, 11:00 AM. Visit the web site at www.yumahamfest.org for details.

June 2, 2012 - **White Mountain Hamfest** - hosted by the Kachina Amateur Radio Club will be held at Show Low City Hall, 180 N 9th Street in Show Low. Open 7:00 AM - 1:00 PM. Free Admission - Vendor/Tailgaters \$5.00 per space - Free Dry Camping Friday, June 1 after 5:00 PM - VE Testing 9 AM - ARCA Meeting 11:00 AM - Prizes - Seminars - Displays - Arts & Crafts - Food Vendors. Talk-In 145.310 PL 110.9. Contact - Jim Mortensen - w7azy@arrl.net. Web site: www.kachina-arc.org.

July 20 - 22, 2012 - **ARCA/Williams Hamfest** - hosted by the Amateur Radio Council of Arizona will be held at the Williams Rodeo Grounds in Williams. Keep watch for more details.

ADAW

13th Annual SKYWARN Recognition Day

The National Weather Service and the ARRL will sponsor the 13th Annual SKYWARN Recognition Day. The Special Event will begin on Friday, Dec. 2 at 5:00 p.m. MST and end Saturday, Dec. 3 at 5:00 p.m. MST. Learn more at <http://hamradio.noaa.gov>. The local office of the NWS will use the callsign WX7PHX. You are invited to check in and give your one line weather report on 442.800 MHz, South Mountain RPTR. Local coordinator: Steve Sipple - pamsteve08@cox.net.

Old Pueblo Radio Club INTERMOD

President's Column

November 2011

Because of deadline timing, I have little to report this month, but will have much more in the December issue. Members are asked to volunteer to fill officer and director positions. Understand that there is some peril in filling these positions as indicated by the fact that several of our long time officers have died in office. I am sure that some members are up to the task. The elections will take place at the December meeting.

El Tour de Tucson will take place on 19 November 2011, about the time you read this. I hope as many of us as possible will be able to assist Ted, AA7HX in filling the many amateur radio positions required to successfully support this event. If the date has not passed and you can assist, just call him at his number, found on the first page of ADAW, or send an e-mail to tedaa7hx@cox.net.

I hope to give a short talk at the November meeting on how to apply for temporary permission to operate amateur radio equipment in Mexico. There is guidance on the ARRL web site, but I will try to bring it a little closer to home, as through the Mexican Consulate here in Tucson.

Our annual swap meet will be covered in my December letter. Should this arrive before 22 October, the date of the swap meet and you are coming from out of town, the address of the location is 2805 E Ajo Way, Tucson, AZ 85713. This should be of help in setting up your GPS. I am sorry for not putting that information in an earlier letter, but I have only recently acquired a GPS with a map, and discovered the need for a destination address to make the thing work.

Have a happy Thanksgiving.

73 de

Ron Kalish, N7SPW
President, OPRC

ADAW

Want Ads

Wanted - Rohn 25/45 gin pole.

Contact Ray, W7GNE - Home: 480.998.1893

December 2011

The fall OPRC calendar is well underway. The OPRC Amateur Radio Swap meet was held on Saturday, 22 October 2011. The weather was perfect, and the event was well attended both by vendors and by purchasers. We look forward to doing it again next year. My special thanks to the ARRL, to ARCA, Tom Fagan K7DF, The Radio Society of Tucson, the Lion's Club breakfast crew, my event staff (George N9IUK, Bill N7GUO, Jim KC7THU, and Mark McCune) and to all the vendors and buyers who made this such a success. Next year's event will likely be at a different location, so the club will keep everyone posted.

The December meeting will be choosing officers for 2012. Please feel free to attend and to run for office. Several members have been lost due to death or other reasons, and their positions need to be filled.

It is not too soon to think about payment of dues for 2012. Your dues not only help to pay the club's expenses of operation, but also to maintain the three club repeaters. Special thanks to Cliff KD6XH for his work to keep them on the air. In this regard, Ted AA7HX performed service beyond the call to return the 146.66 Mhz repeater to operation following the heavy damage to his antenna tower.

Finally another thank you to Cliff KD6XH for his presentation at the November meeting in which he provided an unclassified slide show of the work he does at Raytheon to test missiles as to vulnerabilities, incoming or outgoing, to RFI. It was quite interesting.

Wishing all a great holiday season and a good new year I remain

Ron Kalish, N7SPW - President, OPRC

OPRC Repeaters

146.66 - PL 110.9	wide coverage	W7GV
146.82 - PL 110.9	wide coverage	W7GV
147.22 - PL 110.9	wide coverage	W7GV

RACES Repeaters

145.150	packet/wide	N7OEM
146.880 - PL 110.9	wide coverage	N7OEM
147.300 - PL 110.9	wide	N7OEM
448.55 - PL 110.9	wide coverage	N7OEM

12 STORE BUYING POWER



HAM RADIO OUTLET

WORLDWIDE DISTRIBUTION

Manufacturer Day in Salem NH - Aug 22!

Special one day only pricing at ALL 12 HRO STORES

(Salem only) - Hourly Prices -

- Meet Mfr. Reps -

- See the latest gear -

- Refreshments -

10:00 - 5:30 pm

(No purchase necessary)

ANAHEIM, CA

(Near Disneyland)
933 N. Euclid St., 92801
(714) 533-7373
(800) 854-6046
Janet, KL7MF, Mgr.
anaheim@hamradio.com

BURBANK, CA

1525 W. Magnolia Blvd., 91506
(818) 842-1786
(800) 854-6046
Eric, K8EJC, Mgr.
Magnolia between
S. Victory & Buena Vista
burbank@hamradio.com

OAKLAND, CA

2210 Livingston St., 94606
(510) 534-5757
(800) 854-6046
Mark, W17YN, Mgr.
I-880 at 23rd Ave. ramp
oakland@hamradio.com

SAN DIEGO, CA

5375 Kearny Villa Rd., 92123
(619) 500-1900
(800) 854-6046
Hay, 163 & Claremont Mesa
saddiego@hamradio.com

SUNNYVALE, CA

510 Lawrence Exp., #102, 94005
(408) 736-9406
(800) 854-6046
Jon, K6WV, Mgr.
So. from Hwy. 101
sunnyvale@hamradio.com

NEW CASTLE, DE

(Near Philadelphia)
1509 N. Dupont Hwy., 19720
(302) 322-7092
(800) 644-4476
Jim, K3JN, Mgr.
RT.13 1/4 mi., So. I-295
newcastle@hamradio.com

PORTLAND, OR

11705 S.W. Pacific Hwy.
97223
(503) 598-0555
(800) 854-6046
Leon, W7AD, Mgr.
Tigard-99W exit
from Hwy. 5 & 217
portland@hamradio.com

DENVER, CO

8400 E. 31st Ave., #8, 80231
(303) 745-7373
(800) 444-9476
John, WB1G, Mgr.
denver@hamradio.com

NEW LOCATION!

PHOENIX, AZ

10615 N. 43rd Ave., 85029
(602) 242-3515
(800) 444-9476
Gary, N7GJ, Mgr.
Corner of 43rd Ave & Pactor
phoenix@hamradio.com

ATLANTA, GA

6071 Buford Hwy., 30340
(770) 263-0700
(800) 444-7927
Mark, KJ4VD, Mgr.
Doraville, 1 mi. no. of I-285
atlanta@hamradio.com

WOODBRIIDGE, VA

(Near Washington D.C.)
14803 Bulfinch America Dr. 22101
(703) 643-1063
(800) 444-4799
Steve, W4SHG, Mgr.
Exit 161, I-95, So. to US 1
woodbridge@hamradio.com

SALEM, NH

(Near Boston)
224 N. Broadway, 03079
(603) 898-3750
(800) 444-0947
Chuck, N1UC, Mgr.
sales@hamradio.com
Exit 1, I-93;
28 mi. No. of Boston
saalem@hamradio.com

Yaesu Summer Specials Good Thru 8-31-09



FT-897D VHF/UHF/HF Transceiver

- HF/6M/2M/70CM • DSP Built-in
- HF 100W (20W battery)
- Optional P.S. • Tuner • TCXD Built-in

Call Now For Our Low Pricing!



FT-950 HF + 6M TCVR

- 100W HF/6M
- Auto Tuner built-in
- 3 roofing filters built-in
- DMU-2000 Compatible

Call Now For Low Pricing!



FT-8800R 2M/440 Mobile

- V-U/V-V/U-U operation
- V-U full duplex • Cross Band repeater function
- 50W 2M 35W UHF
- 1000+ Memory channels
- WIRES ready

Call Now For Low Pricing!



VX-3R 2M/440 HT

- Ultra-Compact Dual-Band HT w/ Wide band RX
- 1.5W RF out 2m/ 1w RF out 440
- WIRES Compatible
- 1000 Memory channels
- AA Battery compatible w/Optional FBA-37

Call For Low Intro Price!

FT-60R

- 2m/440 HT
- SW Wide-band receive
- CTCSS/DCS Built-in
- Emergency Auto ID

Low Price!



VX-7R/VX-7R Black

- 50/2M/220/440 HT
- Wideband RX - 900 Memories
- 5W TX (300mw 220Mhz)
- Li-Ion Battery
- Fully Submersible to 3 ft.
- Built-in CTCSS/DCS
- Internet WIRES compatible

Now available in Black!

VX-6R

- 2M/220/440HT
- wideband RX - 900 memories
- 5W 2/440, 1.5W 220 MHz TX
- Li-Ion Battery - EAI system
- Fully submersible to 3 ft.
- CW trainer built-in

NEW Low Price!

VX-8R

- 50/144/222/440 Handheld
- 5w (1W 222)
- Bluetooth optional
- waterproof/submersible 3 ft. 30 mins
- GPS/APRS operation optional
- Li-Ion Hi-capacity battery
- wide band Rx

NEW!



FT-857D

- Ultra compact HF, VHF, UHF
- 100w HF/6M, 50w 2M, 20w UHF
- DSP included • 32 color display
- 200 mems • Detachable front panel (VX-857 required)

Call for Low Price!



FT-7900R 2M/440 Mobile

- 50w 2m, 45w on 440mhz
- Weather Alert
- 1000+ Mems
- WIRES Capability
- Wideband Receiver (Call Blocked)

Call Now For Your Low Price!



FT-2000/FT2000D HF + 6M tcvr

- 100 W w/ auto tuner • built-in Power supply
- DSP Filters / Voice memory recorder
- 200W (FT-2000D)
- 3 Band Parametric Mic EQ • 3 IF roofing filters

Call For Low Pricing!



FT-450AT HF + 6M TCVR

- 100W HF/6M • Auto Tuner built-in • DSP Built-in
- 500 Memories • DNR, IF Notch, IF Shift

Call Now For Special Pricing

AZ, CA, CO, GA,
VA residents add
sales tax. Prices,
specifications,
descriptions,
subject to change
without notice.

Look for the
HRO Home Page
on the
World Wide Web
<http://www.hamradio.com>

#1
in Customer
Service

COAST TO COAST
FREE SHIPPING
UPS - Most Items Over \$100
Rapid Deliveries From
The Store Nearest To You!



Superstition Amateur Radio Club



Saturday
December 3rd, 2011
Mesa Community College



Southwest Parking Lot
Southern & Dobson
6 AM to 2 PM

VE Testing will be
conducted by the East
Valley VE Testing
organization



Food will be sold
onsite by a
refreshment vendor

(Vendors please do not sell
food at your site due
to county codes)

Hamfest

Admission -- \$1.00
Children under 12 FREE
Vendor Parking Spot -- \$5 per lined spot
If you take up two spots it will be \$10, etc.

Raffle prizes include:	Yaesu FT-8900R w/YSK-8900	MFJ-269
	Wouxun KG-UVD1P	MFJ-945
	Pyramid PS36K	Solarcon A99 antenna
	50' RG-213/U with PL-259s	

Raffle tickets are \$1 each
Door prizes are drawn every half hour. Must be present to win door prize.

Main prize drawing is at noon.
You don't need to be present to win the raffle prizes listed above.

Thunderbird Amateur Radio Club

An ARRL-affiliated Club
Phoenix, Arizona



TBARC Hamfest

THUNDERBIRD Amateur Radio Club
and Amateur Radio Council of Arizona will host

Thunderbird Hamfest

Saturday, January 7, 2012

This year we are outside - tailgating permitted!

Location:

Northwest Community Church
10015 N. 43rd Ave
Phoenix, AZ 85063

Just south of Bell Road on the East side of 43rd Ave. Click for [directions](#).

Date:

Saturday January 7, 2012

Time:

Open to Vendors at 5:30 AM
Open to Public from 7:00 AM to 12:00 Noon
Commercial Vendors can set up Friday night after 5:00 PM
Vendors must supply their own tables

Cost:

Vendor \$10.00 per Parking Spot
Public \$2.00

Additional info:

- Door Prizes will be given away on the half hour beginning at 8:00 AM
- VE Testing on-site in Classroom E110 from 10:00 AM to 11:30 AM. Exam Fee \$15.00
- Talk-in on 146.700 -600 KHz, 162.2 PL or 446.150 -5 MHz, 100 PL.
- No Firearms, Alcohol or Drugs Permitted
- Please park in designated areas only
- Snacks and beverages will be available for purchase on site

Contact

For additional information, please contact hamfest@w7tbc.org.

2012 ARRL Southwestern Division Convention

8th Annual

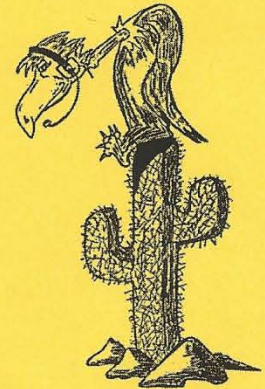
Yuma Hamfest & Emergency Preparedness Show Yuma, Arizona

Feb. 17 & 18, 2012

Yuma County Fairgrounds
2520 East 32nd Street, Yuma, Arizona

www.yumahamfest.org

Check the Website for Additional Information
and a Current Schedule of Activities and Seminars



Gates Open for Camping Thursday, 2 pm Vendor Setup Friday, 7 am - Noon	Event Hours Friday, Noon - 5 pm Saturday, 8 am - 5 pm	Buzzard BBQ & Grand Prize Drawing Saturday Night 6:00 - 8:00 pm
---	---	--

**Vendors & Exhibitors
Consignment Sales
License Testing
Hourly Door Prizes
Incredible Grand Prizes
Buzzard BBQ Dinner
Antenna Clinic**

**Tailgating (Swap Meet)
Full Seminar Schedule
DXCC Card Checking
Hospitality Area
On-site RV Camping
Transmitter Hunt
ARRL Speaker**

Hamfest Talk-In Frequency: 146.840 (-) PL 88.5 Hz

Email Contact: info@yumahamfest.org

Presented by the Yuma Amateur Radio Hamfest Organization (YARHO)



We are proud to have the Amateur Radio Council of Arizona (ARCA) as a sponsor of our event.

The Yuma Hamfest is an American Radio Relay League (ARRL) sanctioned event.

