

# ALL EARS

www.earsclub.org

The official bulletin of the Escondido Amateur Radio Society – N6WB February 2014

## February's meeting details



Dr. Henry Richter, W6VZA will talk to us about long distance communications with the Voyager space-crafts.

See Matt's VP article for more details...

## EARS Event Calendar - 2014

- Feb 13 EARS meeting, 7:30 p.m.
- Feb 15 Monthly Breakfast, 8:30 a.m.
- Feb 20 Board Meeting, 7:00 p.m.
- Feb 22 [VE Testing](#)
- Mar 13 EARS meeting, 7:30 p.m.
- Mar 15 Monthly Breakfast, 8:30 a.m.
- Mar 20 Board Meeting, 7:00 p.m.
- Mar 29 [VE Testing](#)
- Apr 10 EARS meeting, 7:30 p.m.
- Apr 17 Board Meeting, 7:00 p.m.
- Apr 19 Monthly Breakfast, 8:30 a.m.
- Apr 26 [VE Testing](#)

## Inside this issue

Welcome to February's All EARS.....	Page 1
The Dues are still due!.....	Page 1
The Presidential Prose.....	Page 2
Verbal from the VP.....	Page 3
Opportunity Drawing Update.....	Page 4
Current EARS Membership.....	Page 4
San Diego Mini-Maker Fair.....	Page 5
A tale of a Troublesome Tower.....	Page 6
Poway Hams Need Our Help.....	Page 9
Preliminary Treasurer's Report.....	Page 9
Items for Sale.....	Page 9
Yuma Hamfest.....	Page 10
EARS Elmer List.....	Page 10

## Welcome to February's All EARS

By Steve Venner, W6TAN



Welcome to February's ALL EARS!

It's a bit of a bumper edition this month with a few good articles for you to peruse. Not only that, I already have some

articles ready for next month!

Well done to all those who contributed – Especially to John, AF6UA; Mike, KF6SJ; Matt, N6EAJ and Teri, W6TRB... **Thank you!**

Please keep them coming, and remember... photographs are always appreciated.

In the meantime, I hope you all enjoy Dr. Henry's presentation on Thursday.

73,  
Steve, W6TAN.

## The Dues are still due!

By Steve Venner, W6TAN



**The last reminder...**

Unfortunately, it does seem that we have to constantly remind you that the 2014 dues are now due!

All you have to do is hand over your hard earned dosh to our treasurer – Teri, W6TRB, and she'll make sure that your membership doesn't lapse.

Checks are preferable, but cash is OK. Also consider paying for more than one year at a time – it saves our treasurer some work. Even better, consider paying for a life membership!

# The Presidential Prose

By Mike Hightower, KF6SJ



## Invisible Signals

There are so many dimensions to our amateur radio hobby.

We have a wide range of operating frequencies from low megahertz to beyond microwave, and on all of the frequencies there are many methods of communications that the operator can use.

There are voice, digital, images, and live video being transmitted any time of the day or night.

I was recently reading an article on a CW mode called QRSS and decided to see if I could receive any stations transmitting in this mode.

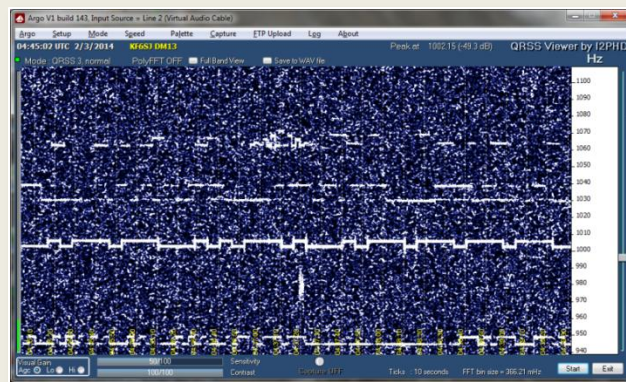
If you remember the “Q” signals, QRS means to send more slowly. This is used in CW communications to tell the other operator that you need his code sent slower. QRSS is a modification that means to send the messages *very* slowly. By the term *slowly*, QRSS signals are often 6 seconds per dit and 18 seconds per dash.

This slow a rate requires the use of a computer to generate the timing.

The reason this mode exists is to experiment with very low power transmissions for the weak signal enthusiasts.

Yes, it takes a long time to send each message, but it doesn't take much power. Typical transmit power levels are under 1 watt and often much less than a watt. There are confirmed contacts of over 11,500 miles using 0.5 milliwatts! **Yes, that is 0.0005 watts.**

Below is a screen shot of QRSS reception using a free program called Argo. The horizontal axis represents 4 minutes of reception. I was on 30 meters in the middle of the evening a few days ago and captured this image.



In this screen shot, there are four simultaneous signals with the 3<sup>rd</sup> trace from the top being the strongest and cleanest to read.

If you know your Morse code, you can decode the waveform as “WF1”. It was WF1N in Wolcott, Connecticut transmitting his call sign, but I couldn't fit the entire call on one screen shot.

The CW is sent as a 5 Hz frequency shift signal which makes it look like a square wave signal on an oscilloscope.

These signals were so weak on my Flex-3000 spectrum display that they were invisible. They didn't show anything on the radio's waterfall display, yet, using the Argo program, the signals can be seen and decoded by the human eye.

This shows that at any time and on any band, when one would think that the band is closed, there are probably hams communicating.

But if you don't take the time to look for the weak signals, you will never see them.

They are invisible!

73,  
Mike KF6SJ

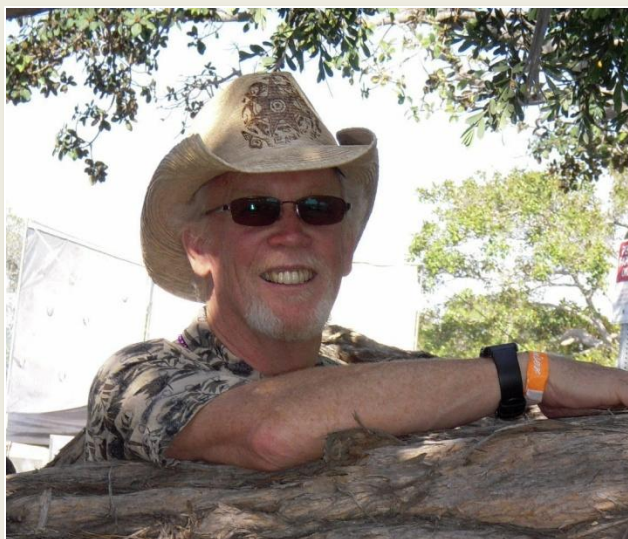
## Verbal from the VP

By Matt Tucker, N6EAJ



Thanks to Ron Rosson N6XT for presenting at our January meeting about his 1st DX Expedition to American Samoa and Samoa.

I forgot take a picture of Ron after the meeting so I don't have my usual "action" picture.



### February's meeting.

Unlike the February meeting last year, you don't have to choose between spending the evening with your sweetheart or your ham radio club.

Our February meeting will be Thursday February 13th. Dr. Henry Richter W6VZA, who presented about the Explorer 1 satellite and gave us a tour of the Escondido police department building last year, will talk to us about long distance communications.

DXing Europe? No.... a bit further than that!

Come hear Dr. Henry tell us how NASA communicates with Voyager at 11,700,000,000 miles- radio transit time about 18 hours (distance=2/3 of a light-day).

NASA operates a deep space net in three locations spaced 120 deg around the globe. They each have a 210-ft diameter antenna plus several smaller ones about 85-ft diameter. They stay in touch with the

two Voyagers, plus 32 other spacecraft like Cassini orbiting Saturn, the mars rovers, the mars orbiters, and a bunch more.



Dr. Henry last year during his Explorer 1 satellite presentation.

### Volunteer judges needed.

Reidy Creek Elementary school is looking for some volunteer judges for their Invention Convention.

The judging will take place Feb 11 & 12 (Tuesday, Wednesday) in two shifts each day: 8:30-11, and 11:30-2.

You can pick one of the 2½ hour shifts either day. They will provide judging criteria and scoring sheets. It's very easy, very entertaining, and for a great cause.

They are looking for people with an interest / background in electronics / sciences / technology.

Contact Jason McDonald [jasonbmcd@gmail.com](mailto:jasonbmcd@gmail.com) or phone (760) 271-6751 if you would like to be a volunteer judge.

Reidy Creek elementary is located at 2869 N Broadway, Escondido.

Hope to see you at the meeting,

Matt  
N6EJ

## Opportunity Drawing Update

By Teri Bloom, W6TRB



Tickets sold like hotcakes during January's meeting, so the drawing was held after Ron N6XT's very good DX presentation.

There were two prizes available in this opportunity drawing:

### Outdoor scanner and ham discone antenna.

- Omni directional and rugged stainless steel construction
- Wide 25 - 1300 MHz coverage
- Also for transmitting on 50, 144, 220, 440, 900 and 1296 MHz ham bands

### Energizer's LED Flashlights Combo Pack - 4 Flashlights in one pack.

- One keychain flashlight,
- Two flashlights using AA batteries
- One flashlight using D batteries

The first ticket drawn belonged to John, N6EP. He selected the antenna.

The second ticket drawn belonged to Fred, W6PBR. Fred was not present, but will receive his prize at the earliest convenience.

The next opportunity drawing prizes are not determined as yet, but rumor has them as a Baofeng HT and an unusual kit from Italy.

Keep tuned in and as soon as we know we will announce the prizes!

*Remember - you must be a member to purchase opportunity tickets!*

### And talking of which...

Also, a reminder there is still time to renew your membership; it is only \$15 for a year. It is an opportunity to participate in one of the greatest clubs ever!

There are monthly presentations of different topics, an annual picnic, Field Day participation, and a chance to volunteer at two parades, an annual holiday party, and a chance to Elmer or be Elmer'd by fellow members of the club on many different subject and more!

Consider renewing your membership for more than one year at a time or even consider becoming a life member

Teri,  
W6TRB

## Current EARS Membership

By Steve Venner, W6TAN



This past month, there was one new member joining...

David Piontek, KV7I

**Welcome aboard David!**

Therefore, the current EARS membership as of the 10<sup>th</sup> of February, 2014 is:

- |                 |     |
|-----------------|-----|
| • Life:         | 55  |
| • Paid (2013):  | 45  |
| • Paid (2014+): | 30  |
| • Total:        | 130 |

**Note that there are still 45 of you who haven't yet renewed your member ship for 2014.**

*If you don't renew in by March, this will be the last All EARS that you will receive by e-mail.*

So don't be a scurrilous deadbeat – hand over your wad to our treasurer Teri, W6TRB ASAP...

**Do it now – you know you want to!**



## The San Diego Mini-Maker Fair

By John McNelly, AF6UA



The San Diego Mini-Maker Fair was at the Del Mar Fairgrounds on Saturday, Dec 7th.

The outdoor exhibits were cancelled due to the 100% chance of rain, so PARC's

amateur radio booth wasn't there. However, the San Diego Microwave Group had an indoor spot, where they demonstrated tin can antennas that provided full duplex communication at up to 24 miles. At that distance, you'd better attach a spotter scope to the antenna!

There were UAVs (unmanned aerial vehicles) galore -- including a large indoor area where drones were flying around. The San Diego Drone Users Group had a large display of drones used for search and rescue, and was campaigning for legislation to permit them to actually use them for such public service missions.

There was both old-school and new-school wood burning. The CO2 laser used by the new school wood burning could actually cut wood and metals (and even etch granite), too, but when I was there, they were just etching a face into wood.

Some folks were dressed in Steampunk (think Artemis Gordon and his gadgets from the TV show Wild Wild West, or any Jules Verne novel). It's arguably cosplay (<http://en.wikipedia.org/wiki/Cosplay>), with the characters dressing up in Victorian Era or Wild West era costumes adorned with fanciful, science-fictiony gadgets. Seems like at least once a month, there's Steampunk characters at the Poway Crafts Fair (Saturdays at Old Poway Park). There's a Steampunk convention coming up here in San Diego -- May 2-4th, 2014 (see <http://gaslightgathering.org>).

One booth featured a CatGenie (a commercially available self-flushing, self-washing litter box). What more could a cat owner want? Well, a lot. Two people melded a Raspberry Pi (a \$35 credit card sized computer) into the cat box. The Pi controls all the functions of the litter box, and sends telemetry to a web server, and accepts remote

commands from a PC. You can check whether you need to refill the litter box's soap supply, and also view statistics on your cat's use of the litter box -- min time, max time, and average time in box, as well timestamps for when the cat was actually in the box.

There is talk of adding sensors to check the cat's health, if you get my drift. Some of parts were "off-the-shelf", the circuit boards used for the Bluetooth communication from the box to the network were designed and fabricated.

Other booths included a device to notify you when you've got mail (US mail) in your mailbox. Solar Cookers (<http://www.solarcookers.org>) was demonstrating how to create a solar cooking device using kitchen foil taped to sheets of thin cardboard.

Sensor Jacket (<http://www.sensorjacket.com> -- a commercial company based here in San Diego) was demonstrating a sensor module you attach to your smart phone case, which lets you take a patient's temperature. The company has plans to include sensors such as thermal (night) vision, blood glucose levels, breathalyzer, humidity, and ionizing radiation.

There's a new 'makerspace' opening in San Marcos, it's called "Open Source Maker Labs" (<http://www.opensourcemakerlabs.com/>). They're having a special where the first 3 months is \$50/month. Otherwise it's in the \$130-\$140/month range. Wow. But you get access to all kinds of expensive equipment -- laser cutters, CNC milling machines, 3d printers.

Quite a few high schools had booths, including representative of the First Robotics Competition (<http://www.usfirst.org/roboticsprograms/frc>), showing off their robots that can shoot Frisbees and climb pyramids (pretty sure I saw robots built by Jo KB6NMK's progeny on display).

UCSD's "Flow Control and Coordinated Robotics Labs" had a booth demonstrating, among other things, a two-wheeled, self-balancing robot.

Two Bit Circus (<http://www.twobitcircus.com>) had a display of wearable electronics, including a kit you can purchase containing conductive thread you can sew into clothing to conduct power to your devices,

as well as LEDs and control electronics. They also demonstrated a speaker built out of a disposable water bottle.

One booth had a home-built claw crane ([http://en.wikipedia.org/wiki/Claw\\_machine](http://en.wikipedia.org/wiki/Claw_machine)), which I think would be great for storing treats in for the kids -- they wouldn't beg you for treats any more, they'd have to work the machine.

Not all robotics have to be expensive -- you can make a robot out of an old toothbrush, a cell phone vibration motor, and a CR-2032 disc battery. The robot's motion is somewhat random, it just skitters around, but if you take a router to a sheet of plywood, you can make a race track. Or, you use felt pens for legs, and make art.

There was a life size robotic giraffe. His name is Russell. Yeah, it walks, but I didn't see it at the fair (<http://www.youtube.com/watch?v=eBK1fYddoG8>).

San Diego has its own R2-D2 Builders Club. They had various R2-D2 units on display, some finished, some partially constructed to show the process. They do need to specify they're the San Diego R2-D2 Builders Club, since there are builder clubs all over the place (<http://www.r2-d2builder.com/>).

Another booth demonstrated a "build it at home" wind tunnel. One of the hard things about building a wind tunnel is getting laminar air flow (getting zero turbulence). Do it yourselves just build an air filter out of a thousand drinking straws. The wind tunnel used pieces of dry ice dropped in water to generate the smoke.

The Faire was organized by <http://www.makershed.com/> -- if you do any shopping at their website, use coupon code SANDIEGO for \$10 off any purchase of \$50 or more.

I took a few bits of video, see <http://www.youtube.com/watch?v=U38Q5wvrbUw&feature=youtu.be>

For a short time, you can view the full set of pics at: <https://www.dropbox.com/sh/7fzn5r84d8uov6l/QnZSOo3GGS>

73,  
John AF6UA

## A Tale of a Troublesome Tower

By Teri Bloom, W6TRB



It all started when a ham became an SK and left his equipment and tower to EARS.

The ancillary equipment was picked up and taken to John, N6EP for analysis.

He found some parts which didn't work and some that did. The equipment that didn't work was set aside for further analysis, maybe with a quick repair so that it could be offered in the upcoming EARS auction...

The tower was the big question. Marvin went to the house and took some photos to see what to expect.

It was a 60' tower with a quad antenna mounted on a rotator. The tower had rust; the cable up to the antenna was in quite bad shape.

A work party of 5 was assembled. We met at Marvin's QTH and then all drove over in Marvin's truck: Mike KF6SJ, Matt N6EAJ, Marvin W6MJM, John AF6UA, and Teri W6TRB (photographer)

Soon John AF6UA donned his hardhat and climbing gear and was up the tower to clip the cables.





The antenna was rusty and considered not salvageable. It turned out there was water inside and was rusty inside also!



After the cable and wire were cut free, the tower base bolts were soaked in Liquid Wrench and ropes were tied to the tower so it could be lowered.



The tower was tied off with rope for lowering and after the bolts were removed,





The tower was then successfully lowered and the antenna was removed from the rotator...



...and then cut up for scrap. The pieces were collected and put in the back of Marvin's truck for recycling.

Next the tower had to be moved to an out-of-the-way location.



The house is for sale and the tower couldn't be blocking any access. So it was moved onto the small retaining wall and set on wood planks found at the location. It was such a big tower!



The area was cleaned and tidied up, and we went back to Marvin's and then left.



Next we will advertise the tower and sell it as quickly as we can.



## Poway Hams Need Our Help

Information provided by Jeff Murdock, AE6GM



Hams in Poway worked diligently this past year to get the Poway City Council to enact a Poway amateur radio ordinance that is compliant with Federal FCC regulations.

At a Poway City Council meeting held on September 3<sup>rd</sup>, the City Council directed the City planning staff to work with Poway amateurs to develop the ordinance and present it to the City Council for approval. The Poway hams are now working this matter with their counterparts in the City.

The plan now is that the Poway City development department will hold a "City Council Working Group" on Tuesday, February 18<sup>th</sup>. This will be an open City Council meeting at which the public will be invited to present their opinion about the proposed ordinance. It is likely a large public attendance will take place.

**Poway hams need a large presence of San Diego County hams in Poway supporting their amateur radio cause!**

Detailed time and schedule of events will be announced as soon as possible. Announcements will be carried out in newsletters (if known in a timely manner), via emails, web posts, and blogs of ham radio, on repeaters in San Diego County, etc.

**Please mark your calendars to be in Poway on Tuesday February 18<sup>th</sup>, 2014 to support our fellow hams.**

The meeting will take place at Poway City Hall, 13325 Civic Center drive, Poway, CA.

## Preliminary Treasurer's Report

By Teri Bloom, W6TRB



The first meetings of 2014 of the EARS club are over and it seems some very exciting ideas are in the works.

The first meeting started off with an excellent DX presentation given by Ron N6XT (the idea of participating in a DX is now on many bucket lists).

The budget for 2014 has been completed and approved by the new board; the Field Day spaces at Dixon Lake have been reserved, a new way to record sellers, buyers and amounts for the EARS auction and possible changes to the annual Picnic has been discussed.

The Board has some great members, and some new and exciting ideas for the club have been presented.

Watch this space for more details...

## Items for Sale

By Steve Venner, W6TAN



The following list of 'For Sale' items has been copied from the EARS web site.

Click on the links for more details of each item.

Item	Price
<a href="#">Yaesu VX5 Battery. FNB-41</a>	\$ Free
<a href="#">M<sup>2</sup> Zelement 80M Beam</a>	\$1800 (obo)
<a href="#">Fiberglass poles</a>	\$0.50 ea
<a href="#">SDR1000 with 2m transverter receive</a>	\$200 (obo)
<a href="#">Alpha Delta 4 position coax switch</a>	\$50
<a href="#">Comet HF/vhf duplexer</a>	20
<a href="#">Kenwood TR-7400A #2 2M 25W Vintage (For Packet)</a>	\$55
<a href="#">MFJ-945D 300W Mobile Tuner</a>	\$60

## Yuma Hamfest

Information provided by Roger Hunt, K7MEX



The **2014 ARRL Arizona Section Convention**, to be held in conjunction with the annual **Yuma Hamfest**.

Held Friday and Saturday, February 14-15, 2014 at the Yuma County Fairgrounds in Yuma, Arizona.

We hope you will let your club membership and other hams in your community know by announcements at club meetings, newsletters, radio nets or simple word of mouth.

Now in our tenth year and one of the largest hamfests in the ARRL's Southwestern Division, the Yuma Hamfest is one of the few multi-day convention-style hamfests held in Arizona.

We feature commercial exhibitors and vendors, tailgating, grand prizes worth \$13,700, on-site RV camping, free parking, seminars held in parallel tracks, amateur license testing, DXCC card checking, an antenna clinic & transmitter hunt, our famous "Buzzard BBQ" dinner, great hourly door prizes, a hospitality area, the "Country Store" consignment sales area, and much more.

Admission is only \$5, tailgating spots are \$10 for the weekend, and we offer a food concession run by a professional chef. Our now-famous "Buzzard BBQ" dinner is only \$10 and has sold out for the last three years. We are giving away a Samsung Note 10.1 tablet as an admission registration prize to someone just for attending. You should mark the third weekend of February on your calendar and plan on attending the Yuma Hamfest.

Please check our website at [www.yumahamfest.org](http://www.yumahamfest.org) for more information. If you have questions, contact us at [info@yumahamfest.org](mailto:info@yumahamfest.org) or by phone at 928-305-1034.

## EARS Elmer List

By Steve Venner, W6TAN



Here is the current list of those kind souls who have volunteered their Elmer services:

1. Harry Hodges, W6YOO
  - Award programs such as WAC, WAS, DXCC, VUCC, IOTA, etc. to include card checking.
2. Dick Kalkofen, K6KAL
  - Software development and hardware interfacing.
  - Radio to PC communications.
  - Logging Software: WinTest, Writelog, DX4Win, N1MM, Ham Radio Deluxe and many others.
  - Digital mode software, link FLdigi, MMTTY for PSK, RTTY, WISPR, JT65 etc.
  - Kit building (WinKeyer USB, FA-SM CW/Voice Keyer, Idiom Press Voice Keyer.
  - Antenna setup and tuning.
3. Matt Tucker, N6EAJ
  - General electronics (analog), power supplies, audio, batteries.
  - PSK31 and similar digital modes.
  - Operating and setting up the computer/radio interfaces.
  - Basic antennas (VHF for home or car), HF dipoles and multi-band doublets / antenna tuners.
4. Mike Hightower, KF6SJ
  - HF and in particular, digital modes of PSK31 and JT65.
5. John Musselman, N6EP
  - HF, electronics, contesting, "other"...
6. Marvin Munster, W6MJM
  - Emergency Power Sources, Batteries, Solar, etc.
  - DC Cables and Hook-Up
  - Coax Cables and Connector Assembly
  - DC Power Distribution
7. Ron Pollack, K2RP
  - Antique and tube equipment (boat anchors)



## General Information

### EARS Club Officers for 2013:



#### President

Michael Hightower, KF6SJ  
(858) 382-4041  
[mike@hightower.com](mailto:mike@hightower.com)



#### Vice President

Matt Tucker, N6EAJ  
(760) 839-1205  
[mail4tucker@gmail.com](mailto:mail4tucker@gmail.com)



#### Secretary

John Musselman, N6EP  
(760) 747-5303  
[n6ep@arrl.net](mailto:n6ep@arrl.net)



#### Treasurer

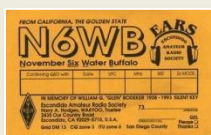
Teri Bloom, W6TRB  
(949) 874-9250  
[w6trb@earsclub.org](mailto:w6trb@earsclub.org)



#### Emergency Services Coordinator

John McNelly, AF6UA  
(858) 449-3326  
[ears@mcnelly.org](mailto:ears@mcnelly.org)

### About ALL EARS:



**ALL EARS** is the official bulletin of the Escondido Amateur Radio Society.

An e-mail subscription to **ALL EARS** is FREE!

You don't need to be a member. Just drop a note to:

[allears@earsclub.org](mailto:allears@earsclub.org)

Permission is given to copy any article contained in ALL EARS when not otherwise copyrighted, and provided proper credit is given.

**Note:** The deadline to submit material for the bulletin is by the 1<sup>st</sup> Thursday of the month.

### Officers at Large:



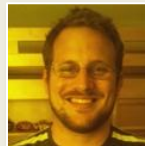
Dirk Reschly, N6SUN  
(760) 743-5839  
[n6sun@earsclub.org](mailto:n6sun@earsclub.org)



Steven Richards, KI6SBQ  
(760) 755-4693  
[ki6sbq@yahoo.com](mailto:ki6sbq@yahoo.com)



Jo Ashley, KB6NMK  
(760) 741-2560  
[kb6nmk@amsat.org](mailto:kb6nmk@amsat.org)



Zac Petersen, KJ6MLT  
(858) 888-6090  
[kj6mlt@earsclub.org](mailto:kj6mlt@earsclub.org)



Position currently vacant

### Non-elective:



#### Past President

Jeff Murdock, AE6GM  
(760) 622-5346  
[cozy765@pacbell.net](mailto:cozy765@pacbell.net)



#### Historian

Harry A. Hodges, W6YOO  
(760) 743-4212  
[w6yoo@cox.net](mailto:w6yoo@cox.net)



#### Webmaster and Newsletter Editor

Steve Venner, W6TAN  
+44 1895 636099  
[w6tan@earsclub.org](mailto:w6tan@earsclub.org)

## General Information cont'd

### SUNDAY EVENING NET

EARS Sunday evening net is every Sunday at 8 p.m. local time. You can get the latest information on club activities there.

Just tune in to the club's 2m repeater at 146.88 MHz, negative offset and PL of 107.2, check in and say "Hi!".

### SECTION NEWS

The latest happenings around San Diego are available at the official website of the ARRL San Diego Section:

<http://www.arrl.org/Groups/view/san-diego>

### EARS PINS

EARS 2010 Board had EARS lapel pins made. They are yellow 1" circles with the EARS Logo in the middle.

They are only \$5.00 each, so get yours today by contacting: Robert Kitson; [ki6sbl@earsclub.org](mailto:ki6sbl@earsclub.org)

### AMATEUR RADIO LICENSE RENEWALS AND CHANGE OF ADDRESS

To renew your license or supply the FCC with a change of address, use NCVEC Form 605 (obtainable from Harry, W6YOO).

Attach a photocopy of your license and mail to:

SANDARC VEC,  
5511 Maryland Drive,  
La Mesa,  
CA 91942-1519.

Note: You **MUST** include your FRN Number.

There is no charge for this service.

### HAM RADIO LICENSE PLATES

All California hams may receive their call sign on their license plate.

Use DMV Form REG17A. The cost is \$21.00 and is a one-time fee.

### VE TESTING

A SANDARC Volunteer Examiner team administers license examinations on the last Saturday of each month at 9:00 a.m. at:

LDS Church  
2255 Felicita Road  
Escondido,  
CA 92026

For more details, see:

[http://www.earsclub.org/ears\\_ve\\_sessions.html](http://www.earsclub.org/ears_ve_sessions.html)

Contact Harry, W6YOO, at (760) 743-4212 or [w6yoo@amsat.org](mailto:w6yoo@amsat.org) to schedule an appointment.

### SANDARC

"EARS" is a member of the San Diego Amateur Radio Council, an association of San Diego area Amateur Radio clubs.

Among other things, SANDARC runs the local Volunteer Examiner program (SANDARC-VEC), and manages the ARRL southwestern Division Convention when held in San Diego every fourth year. See [www.sandarc.net](http://www.sandarc.net)

### CLUB REPEATERS

"EARS" operates three repeaters in the Escondido area.

- 146.88 MHz, minus offset, PL 107.2
- 224.14 MHz (AE6GM repeater), minus offset, PL 156.7
- 449.24 MHz, minus offset, PL 127.3

The 2m and 70cm repeaters are local in nature and primarily serve the immediate Escondido area.

### ECHOLINK

The 2m repeater is tied to the EchoLink system as node 2846.

See the Club website, [www.earsclub.org](http://www.earsclub.org) for information on EchoLink.

There is also a listing of local EchoLink codes in the members section of the website.



## General Information cont'd

### EARS WEB PAGE

"EARS" is on the Internet!

You can read about upcoming activities, get links to other ham radio sites, read back issues of All Ears, or update your call or address.

The site is updated regularly. Check it out at [www.earsclub.org](http://www.earsclub.org)

### EARS REFLECTORS

These are free services that keep members up-to-date via e-mail.

To subscribe to either one of the reflectors, go to the EARS website and click on the Yahoo or Google Group links at the bottom of the main page.

We are also on Facebook!

### CHANGE OF ADDRESS OR CALLSIGN

Please let us know if you change your address, call-sign, telephone, license class, e-mail, etc.

We want to keep our records up to date, so please contact any club officer with the updated information.

### CLUB BADGES

Let everyone know that you are a member of EARS, and avoid having them guess what your name is.

Get your Club Badge from:

Glaser Bailey,  
2015 S. Escondido Blvd,  
Escondido,  
CA 92027  
(760) 743-5551

### MONTHLY BREAKFAST

EARS members meet socially on the third Saturday of each month at 08:30, at:

J and M's Family Restaurant,

1215 East Valley Parkway  
CA 92027

(760) 745-3710  
[www.jandmsrestaurant.com](http://www.jandmsrestaurant.com)

### ARRL LETTER

The ARRL Letter, a weekly e-mailing of Amateur Radio related news, is available to ARRL members free of charge directly from ARRL HQ.

To subscribe for e-mail delivery, ARRL members first must register on the Members Only Website, [www.arrl.org/members](http://www.arrl.org/members).

The ARRL Letter is also available to all, free of charge, at [www.arrl.org/arrlletter](http://www.arrl.org/arrlletter) where it is posted each Friday after it is distributed via e-mail.

### EARS HATS, SHIRTS AND JACKETS

Hats, shirts and jackets are available with the EARS logo.

Order them directly from:

Print World,  
107 S. Andreasen Dr.,  
Escondido,  
CA. 92029  
(760) 747-6443

Just let them know you are a member of EARS.

## Emergency Services

### MONTHLY ARES® MEETING

The San Diego section ARES® meets on the second Saturday of each month at 8:00 a.m. at:

Scripps Memorial Hospital,  
Nobel Room,  
Schaetzel Building,  
9890 Genesee Ave,  
La Jolla,  
CA 92037.

Parking is available in the first lot to the right after the guard shack. The parking fee is \$4.00 and is antenna friendly.

If interested, go to [www.sdgares.net](http://www.sdgares.net) or contact Steve Early, Section Manager, (619) 461-2818, or via e-mail at [ad6vi@arrl.org](mailto:ad6vi@arrl.org).

### EMERGENCY SERVICE NETS

#### Amateur Radio Emergency Service (ARES) San Diego

Sunday, 08:30 146.730 (-) 107.2

#### Community Emergency Response Team (CERT) Escondido

Tuesday, 19:00 146.880 (-) 107.2

Followed by 146.445 SIMPLEX, as directed

#### Community Emergency Response Team (CERT) North County and Back Country

Wednesday, 19:00 147.030 (+) 103.5

Followed by 146.445 SIMPLEX, as directed (on 2<sup>nd</sup> & 4<sup>th</sup> Wednesdays)

#### Radio Amateur Civil Emergency Services (RACES) San Diego County

Monday, 7:30 PM 147.195 (+) 114.8



# Escondido Amateur Radio Society

## Membership Application and Renewal Form

\*Call \_\_\_\_\_

\*Last Name \_\_\_\_\_

\*First Name \_\_\_\_\_

\*Street Address \_\_\_\_\_

\*City \_\_\_\_\_ \*State \_\_\_\_\_ \*Zip \_\_\_\_\_

Home Phone \_\_\_\_\_

Cell Phone \_\_\_\_\_

\*Email \_\_\_\_\_

License Expires \_\_\_\_\_

EARS Family Members \_\_\_\_\_

License Class \_\_\_\_\_

First Licensed \_\_\_\_\_

Old Calls \_\_\_\_\_

Date of Birth \_\_\_\_\_

ARRL Member (Y/N) \_\_\_\_\_ Life Member (Y/N) \_\_\_\_\_

Amateur Related Interests \_\_\_\_\_

*ARRL, RACES, ARES, SATERN, Red Flag, HF, VHF, UHF, Packet, EchoLink, D-Star, T-Hunt, ATV, Field - Day, Contests, Antenna Design, Equipment Building*

Are you willing to run for a club office (Y/N)? \_\_\_\_\_

Note: Fields marked with a (\*) are required.

A Telephone number is requested, but may be unlisted in the roster if you prefer.

### Membership Rates:

One year ..... \$15.00  
 Family membership ..... \$4.00  
 Lifetime membership ..... \$150.00  
 Lifetime membership (family) ..... \$38.00

Mail this form with payment to:

EARS,  
 PO Box 3243,  
 Escondido,  
 CA 92033,

Or give it to the treasurer or any other club officer at a regular club meeting.

Checks please, it is safer than cash, and you have a record!

Membership is from January 1 to December 31.

After July 1, membership to the end of the year is ½ the annual fee.

Special rates apply for family membership for each additional licensed amateur radio operator in your immediate family and for lifetime membership.

For membership confirmation, include a self addressed stamped envelope with this form.