

# ALL EARS

www.earsclub.org

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

## March's Meeting Details



Our March 13th meeting will feature Mark McComb W6MCO talking about Arduino micro controller boards.

## EARS Event Calendar - 2014

- 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](#)
- May 08 EARS meeting, 7:30 p.m.
- May 15 Board Meeting, 7:00 p.m.
- May 17 Monthly Breakfast, 8:30 a.m.
- May 31 [VE Testing](#)

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## Welcome to March's All EARS

By Steve Venner, W6TAN



Welcome to March's ALL EARS!

I know - you've heard it all before...

I'm really sorry that this edition is a couple of weeks later than scheduled – Unfortunately, life events sometimes gets in the way of plans.

Some of you may have heard about the flooding & storms which we've had in the UK.

Although we were not affected too badly, we had some fences come down at my mother's house, and her neighbor was getting a bit frustrated (basically – she couldn't let her dog out into the back yard).

I've also had car issues... Sadly the car I bought when I first came back to the UK 3 years ago has finally died. It basically refuses to start and I don't have the time to spend to work out what's wrong.

It's time for it to be sent to the great recycling plant in the sky (or at least the big crushing machine down the road!

Anyway, back to AllEARS...

There's quite a few good articles again this month, and very many thanks to all who contributed.

I have some ready for next month – but please do keep them coming, and remember... photographs are always appreciated.

In the meantime, I hope you all enjoyed Mark McComb, W6MCO talking about the Arduino micro controller boards... Yet another presentation I wish I could have seen!.

73,  
Steve, W6TAN.

## The Presidential Prose

By Mike Hightower, KF6SJ



### Makers and Cheap Computers

We have some interesting presentations scheduled for the March and May EARS Club meetings.

At our March club meeting, Mark McComb will be telling us all about Arduino microcomputer boards.

The Arduino is a set of inexpensive microcomputer boards that are one of the biggest hobbyist crazes at this time.

For the cost of taking the family out to a fast food restaurant, you can buy a computer board.

The company Arduino gives away all the development tools software, board schematics, and example programs.

The development tools handle all the low level software needs of the microcomputer chip, leaving the user to write small programs with few lines of text to run motors, lights, bells, and anything else you can find.

They are perfect for the person that wants to learn microcomputer programming without a serious time investment.

There are other computers that are both inexpensive and powerful: Raspberry Pi, Beaglebone, and PICAXE all have their own following. They are all computers that cost only a few tens of dollars, but have more processing power than your first personal computers.

Hams have embraced the Arduino and other computer boards for performing chores around the ham shack, such as rotor controllers, CW keyers, solar panel charge controllers, PSK31 decoders/encoders, etc. Plug a speaker into the board, write a few lines of software, and you can make your own Morse code generator.

If you are interested, there are numerous books that can provide sources of project ideas. I bought the ARRL book "Ham Radio for Arduino and PICAXE" even though I don't own either of those computers,

but the projects ideas can be used on any computer platform.

Our next opportunity drawing includes an Arduino board. With a little luck, you may own an Arduino!

Nothing is more fun (ok, there may be a few things more fun) than building your own widget, even if it doesn't do that much. My homemade projects may not impress my kids, but I often impress myself!

This is all part of the Maker or Do-It-Yourself movement – which brings me on to the subject of May's meeting...

The May meeting will have a presentation from an organization called Open Source Maker Labs. They are opening a lab that anyone can come in and rent time on high tech machining tools, 3D printers, and more to build your own inventions.

73,  
Mike, KF6SJ

## Verbal from the VP

By Matt Tucker, N6EAJ



Thanks to Dr. Henry Richter W6VZA for telling us how NASA communicates with Voyager and many other satellites that are far far away...



Goldstone Deep Space Communications Complex - picture NASA

## March meeting:

Our March 13th meeting will feature Mark McComb W6MCO talking about Arduino micro controller boards.

Arduino is an easy way for experimenters and students to use and learn about micro controllers.

It is open source and very inexpensive. Many add-on modules are available for Arduino to make interfacing with the outside world easy (current measuring, USB, GPS modules etc.)

Arduino takes out a lot of the hassle of using micro controllers in projects.

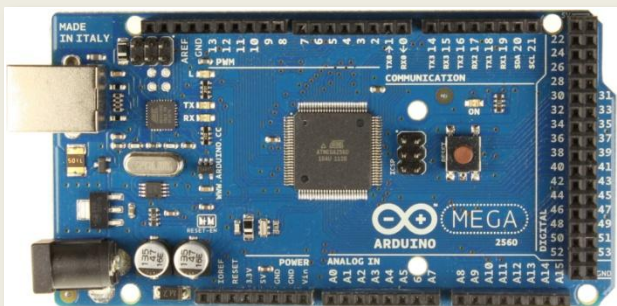
Wikipedia article:

<http://en.wikipedia.org/wiki/Arduino>

How cheap? Under \$50 for a starter kit:

<http://www.hacktronics.com/Arduino/Arduino-Starter-Kit/flypage.tpl.html>

The connectors around the edge of the board make it easy for experimenters to connect to bread-boards or modules.



Many thanks to Roger Gagos, K6EQ for suggesting Arduino as a meeting topic. Give me a ham radio related subject and I'll hit the street/web looking for a knowledgeable person who can tell us about the topic. Send suggestions to [mail4tucker@gmail.com](mailto:mail4tucker@gmail.com)

## April EARS Auction:

Start gathering those ham radio related gems in your garage and shack for our April 10th auction.

We are working on making the auction more streamlined this year.

Hope to see you at the meeting,

## On a different topic:

EARS members Roger Gagos K6EQ, Steve Kerrin W6CDU, and John Musselman N6EP volunteered to be judges at the Reidy Creek Elementary school Invention Convention. I know the school appreciated the volunteers.



Roger K6EQ sits next to the "Basket Buddy".... a device that encourages kids to put their laundry in the clothes basket by making a game of it.

Matt  
N6EAJ

## Opportunity Drawing Update

By Teri Bloom, W6TRB



The latest opportunity drawing item was an Arduino Ultimate Starter Kit with an add-in human sensor module (just for fun).

Plenty of tickets were sold at March's meeting - so the drawing was held after Mark's presentation.

Mark, W6MCO looked over the starter kit and thought it was really good, and a fun learning tool.



As Mark W6MCO was not a member, he was the one to select the winning ticket.

He drew a ticket belonging to David, AK6DD.

### **Congratulations David!**

There were lots of disappointed hams, as many were hoping to be the winner of the starter kit. It was a great presentation and good opportunity drawing.

Later when folks were leaving David AK6DD gave his kit to the EARS meeting guests Randy Roberts and his grandson Cody Roberts.

We are hoping to have a follow up on the projects Cody creates with his new kit!

Cheers to David, AK6DD for his very kind gesture!

### **The next opportunity drawing will have the Fox Delta Antenna Analyzer as the main prize:**

This item has been donated to us by EARS member - Bud AE6BH. He has also offered to build the Antenna Analyzer for the lucky opportunity drawing winner!



As well as the antenna analyzer, another great kit will also be offered:

### **The TenTec QRP transceiver kit (13xx series):**

Enjoy the world of QRP CW operation with one of our single band transceiver kits.

#### **Features include:**

- Available for 20, 30, 40 or 80 meters.
- 3 watts power output.
- Easy to build and simple to operate.
- Each unit covers a 50 kHz segment determined by you at the time of construction.

- Kit includes all required components and professional silkscreened and painted enclosure.

The single conversion superhet receiver performance is superlative, and QSK is just what you expect from the hams at TEN-TEC.



The kit will be ordered for the winner once they decide they want the 20, 30, 40 or 80 meter kit.

73

Teri, W6TRB

## **Current EARS Membership**

By Steve Venner, W6TAN



This past month, there were no less than 4 new members joining!

David Duley, AK6DD  
Robert Calderone, AG6JT  
Chris Ohlendorf, KK6FRI  
Sandra Urias, KI6FCP

### **Welcome aboard!**

Therefore, with all of the latest renewals, the current EARS membership as of the 18<sup>th</sup> of March, 2014 is:

- Life: 56
- Paid (2014+): 48
- Total: 104

## Treasurer's Report

By Teri Bloom, W6TRB



Welcome to our latest two Officers-At-Large, Steve Richards KI6SBQ and Bud Hennessy AE6BH; they both volunteered and were voted in this year.

### We now have a complete board of officers!

We've had our second Officer's Meeting, it's done and logged and it seems we are bit ahead of schedule for the club's business.

We have a finalized 2014 Budget; we've had two Opportunity Drawings, and are working toward a computerized record-keeping for the upcoming Auction.

We hope to make the paperwork and checking out far more streamlined and easier for buyers, sellers and workers! We also have a PayPal account, 'Escondido Amateur Radio Society', and a card swipe so for the first time we can also take credit card payments at the auction and other events and the website PayPal button will soon be working for membership payments also.

The updated EARS Membership pamphlets are headed to the printers and will be available soon.

We also have a Field Day Chair...volunteer opportunities or Field Day to be emailed soon.

The monthly meetings are quickly filling with interesting presentations.

So far, we have a number of renewed memberships but we would really like everyone to renew and, of course, we welcome new members.

Tell your friends about the club; remember you don't have to be a ham to join. We can help you with that after you join!

And also, be sure to attend the monthly meetings.

We have some great presentations, opportunity drawings and time to visit your ham friends. See you there!

## SANDARC update

By Mike Hightower, KF6SJ



EARS Delegate report of the SANDARC meeting held on January 30th, 2014.

EARS was one of 4 clubs that SANDARC considered inactive. They welcomed the EARS Club

back into representation.

A report was given regarding the ARRL South-western Division Convention preparations. The convention is being held in San Diego this September and SANDARC is the organizer.

The majority of this discussion was related to the \$18.7K financial exposure to SANDARC if not enough of the hotel rooms and/or not enough of the convention floor booths are sold.

A motion was made to change the SANDARC meetings from monthly to quarterly. The motion passed. The next SANDARC meeting will be held on April 24th, 2014.

A motion was also made to move the meetings to a restaurant. The motion passed. The meetings were being held at the Kearny Mesa Recreation Center. A selection of three restaurants will be emailed to delegates. The delegate is to vote for their choice of a meeting location.

## Amateur TV

By Teri Bloom, W6TRB



I found this link on QRZ

[www.txfactor.co.uk](http://www.txfactor.co.uk)

Some new show promoting ham radio...

**Ed: You might want to take a peek at the next episode on Friday 21<sup>st</sup>... You never know who you might see ;-)**



## 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 duplexor</a>	20
<a href="#">Kenwood TR-7400A #2 2M 25W Vintage (For Packet)</a>	\$55
<a href="#">MFJ-945D 300W Mobile Tuner</a>	\$60

## Havasu Sidewinder Event

By Dirk Reschly, N6SUN



The following article was published by Roger Mullins for any EARS members who may be interested in this type of event (Ed. Some photographs would have been nice!)

Suzanne and I just back this afternoon from the Havasu Sidewinder's 4WD Club event at Lake Havasu City, AZ.

JustRuns was represented at the event by Suzanne and I, Bruce/Cindy Boogaard and Scott Connelly and his dog Albert.

This was the first time 4 wheeling in the area for all of us. I had no idea there were so many "Great" trails in the area.

They range from easy "Scenic" trails (Rated a 2 on their scale) to "Impossible" trails (Rated a 5). They have approximately 100 "Named" trails in the area. All of their trails are "Approved" by the local BLM

for OHV use. On Friday, Suzanne and I took a trail called "Yahoo Falls" which was rated a low 4. It was probably the 2nd most "Challenging" trail I have ever done, close behind a trail Suzanne and I did once in Johnson Valley that did \$1000 damage to both our Jeeps.

The Yahoo Falls trail consisted of about 8 waterfalls that required lockers on 1 or both axles. I managed to do 6 of them without a strap or winch 1 with a strap and I was too scared to do one so Suzanne drove it.

While Suzanne and I were doing this trail, Bruce/Cindy and Scott took a milder trail rated as easy/moderate but it turned out as exciting.

I may not have the story exactly correct but here is what I think is correct....

Scott was near the front of the group and Bruce was near the back. The group got separated beyond CB radio range. Only Bruce and Scott had Ham radios so were able to keep in touch.

Bruce noticed the person behind him driving erratically and falling further behind. Bruce contacted Scott to have the leader stop. When Bruce went back to check on the driver behind he was incoherent, obviously having some kind of medical emergency.

**Since there was no cell service Bruce and Scott used their Ham radios to contact some people back in town who called 911 to have an ambulance dispatched to the nearest trail head.**

The patient was transported to the waiting ambulance and was later sent via Life Flight to a hospital in Phoenix. It turned out the patient had a blood vessel in his brain burst. The last we heard was that the patient survived.

At the Event dinner on Saturday night Scott and Bruce were "Credited" with helping to save the man's life with their quick action and Ham radio skills.

This incident is at least the 3rd time Ham Radio in our vehicles has helped to save a life. It is why I continue to encourage members to get their license and install a Ham Radio in their 4x4. When there is no other means of communication in remote areas

the Ham radio can save your life or someone else's life.

After the excitement on Friday, we all decided to take a relatively easy Run, rated a "2".

For the Sidewinder's event, registration included dinner for 2 on Saturday as well as 2 event Tee shirts and a "Goody Bag". One could also purchase tickets for the drawing which included a set of tires, a winch as well as lots of other prizes. The Event Dinner/Drawing was that it was held Saturday night in the Lake Havasu City Aquatic Center gym.

On Sunday Scott/Albert and Suzanne and I went with the run to the "Desert Bar". The Desert Bar is an amazing place far out into the desert. The Desert Bar opened in the 1980s.

At first it was only accessible by off-road vehicles. It started out as a "shack" where he sold beer to dirt bikers. It has become so popular that it now consists of several buildings with two stages for entertainment as well as a BBQ/Hamburger/Bar and Tee shirt store and several patios. The owner has even built the Façade of a Church where some people hold weddings... all out in the middle of nowhere and totally "Off the Grid".

One can now get there by graded dirt road suitable for cars or by several 4x4 trails. We were there Sunday and there were probably over 100 vehicles, 4x4s, dirt bikes as well as passenger cars who arrived by the graded road. The place is a "Must See" if you are in the area of Parker AZ. It's only open on weekends but it appears to be a "Gold Mine" for the owner.

I highly recommend doing the Annual Sidewinder event which I believe is always the 3rd weekend in March every year. Along with the TDS Desert Safari and the SD 4Wheeler's Superstition Event the Sidewinder's Event will definitely be on our annual schedule.

Roger

## N6MD Makes EARS History

By Steve Venner, W6TAN



As some of you may know by now – you can now pay or renew your membership dues by PayPal.

Kurt Barnhart, N6MD made EARS history by being the first member to renew his membership using PayPal (now a life member).



You too can join or renew your membership in EARS simply by using the 'Join' button on the EARS website!

## HDRENS Group Formed

By John McNelly, AF6UA



There's a new EMCOMM group here in San Diego, specializing in providing high-speed communications during disasters.

From their Yahoo Group description at:

<https://groups.yahoo.com/neo/groups/HDRENS/info>

### NEW AMATEUR RADIO EMERGENCY COMMUNICATIONS GROUP FORMED

A new emergency communications (EmComm) group has been formed to provide advanced data communications services to public and medical facilities in the case of a serious disaster situation in



San Diego County. This group named the “High Data Rate Emergency Communications Network of San Diego, California” has as its mission “to support the emergency preparedness mission of the public safety, charitable and allied organizations through provision of redundant communication technologies using the services of volunteer Federal Communication Commission licensed amateur radio operators.”

Specifically, the organization will endeavor to design and implement emergency communications facilities that operate at much higher speeds than have here-to-fore been widely available on a volunteer emergency basis in the local area.

The technology to accomplish these objectives has been in evaluation in a project sponsored by the amateur radio club, Coronado Emergency Radio Operators, with a pilot network installed between the club radio facility at the Coronado Shores to the Sharp Coronado Hospital and at the Coronado Fire Department station in the Coronado Cays.

The success of this pilot installation has encouraged the founders of this organization to endeavor to extend this emergency network beyond Coronado to various locations in San Diego County.

The High Data Rate Network Emergency Communications Group of San Diego (HDRENS) has established an affiliation with CREBC, the Baja Radio Club for network connectivity and cross border support in case of an emergency.

For more information, contact club secretary, W3NRG, [edsack12@gmail.com](mailto:edsack12@gmail.com)

## International DX Convention

By Steve Venner, W6TAN



I’ve just been reminded that it’s that time again – time that is for the annual ‘road-trip’ to the International DX Convention at Visalia.

Looking at the list of attendees so far, there seems to be quite a few from both EARS, and the San Diego DX Club.

From my perspective, I have quite a few trade ‘friends’ attending.

Be sure to look out for Dave Bottom, W16R of Arlen Communications (Radio Sport Headsets).

Mention my name, and he might even give you some discount!



## Emergency Services Update

By John McNelly, AF6UA



### Field Day

Mark your calendars -- Field Day is coming up on the fourth full weekend in June! (This year, that's also the last weekend of June -- the

28th-29th).

Field Day is a 24-hour exercise in which hams test their skills operating in sub-optimal conditions (we use solar or generator power instead of utility power, operate from field locations, and so on). It also features great food and camaraderie.

From now until Field Day, the fourth Thursday of each month is the Field Day planning meeting, and **YOU** are invited to help with the planning (Because, you know, the second Thursday of each month is taken by the EARS members meeting, and the third Thursday of each month is the officers' meeting.)

The Field Day meeting will start at 7:00 PM at the Salvation Army



building (same location as the monthly members' meeting):

- March 27th
- April 24th (note to Dirk: that's AFTER April 15)
- May 29th
- June 24th

No previous experience necessary. Contact John AF6UA at [ears@mcnelly.org](mailto:ears@mcnelly.org) for more information.

### Field Training Opportunities:

There are a few ultra-marathons coming up this month. An ultra is any foot race that's more than 26.2 miles. Typical lengths for local ultras are anywhere from 50K (about 31 miles) up to 100 miles.

Volunteering at these events is a great way to get practice in emergency communications (EMCOMM) -- you get practice in the field, and you're passing real traffic. I know that the March 22nd Old Goat run is especially in need of volunteers because it's being held on the same day as the Baker to Vegas run.

*March 15:*

Old West Trails 50K

<http://www.oldwesttrails50kultra30kfunrun.com/>

*Ham contact:*

Ed [W6ABE@arrl.net](mailto:W6ABE@arrl.net)

*March 22-23:*

Baker to Vegas (120 mile relay for law enforcement officers)

<http://www.bakervegas.com/>

*Ham contact:*

Steve KE6CWP [megahertz440@hotmail.com](mailto:megahertz440@hotmail.com)

*March 22:*

Old Goat 50M Ultra

[http://www.oldgoatrunners.com/old\\_goat\\_50\\_home\\_page\\_005.htm](http://www.oldgoatrunners.com/old_goat_50_home_page_005.htm)

*Ham contact:*

Mark KD6TJU [utley.mark@gmail.com](mailto:utley.mark@gmail.com)

*April 5:*

Oriflamme 50K

<http://www.oriflamme50k.com/>

*Contact:*

John (race director) [john@oriflamme50k.com](mailto:john@oriflamme50k.com)

### Build Your Own TDOA antenna for T-Hunting:

You fox hunters out there, check out this link on a Time Difference of Arrival antenna, a directional antenna which isn't affected by signal strength.

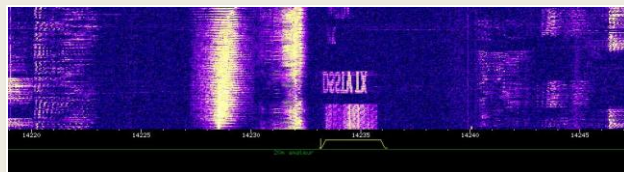
That is, as you get near the transmitter, you don't need to futz with attenuating the signal like you would with a Yagi:

<http://hackaday.com/2014/03/04/tdoa-time-difference-of-arrival-directional-antenna/>

### Wait, What Was That On The Waterfall?

Ever watch a waterfall and see a call sign or a photo scroll by?

Something like this?



<http://i.imgur.com/thrCFIT.jpg>

See a live example here:

<http://www.youtube.com/watch?v=Ugo52oXvxh0>

That's EasyPal Digital SSTV. One person sent a puzzle in the form of a QR Code:

<http://www.swharden.com/blog/2010-11-11-deciphering-qr-code-from-radio-spectrograph/>

For more information, check out

<http://www.vk3evl.com/>

## EARS Elmer List

By Steve Venner, W6TAN

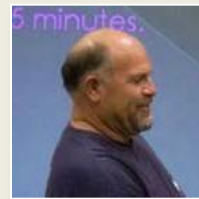


Here is the current list of those kind souls who have volunteered their Elmer services:

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)*

## PARC Operating Day Returns

By Dennis Baca, KD6TUJ



Palomar will again host an Operating Day at Fry's in San Marcos SATURDAY April 26, 2014.

This will be another opportunity to demonstrate to the public what Amateur Radio does, can do, and how it helps the community.

Come join the fun with demonstrations...

We are hoping to have Red Cross, Skywarn, SATERN, D-Star, CERT, and other served groups represented, as well as demonstrations of different modes.

Plagiarizing of the info is encouraged!



Dennis  
KD6TUJ

## 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

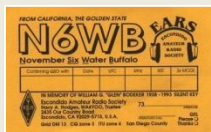
Teri Bloom, W6TRB  
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#### Emergency Services Coordinator

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### 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:



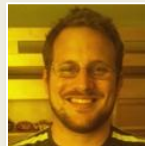
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### Non-elective:



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[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.