

# ALL EARS

[www.earsclub.org](http://www.earsclub.org)

The official bulletin of the Escondido Amateur Radio Society – N6WB November 2011

## November's meeting details

November's meeting is our 2011 Annual General Meeting, where we get to vote on the proposed 'slate' of EARS club officers for 2012.

Prior to the officer elections, our current president, John Musselman, N6EP will give a summary of the activities and events of EARS which took place throughout 2011 - for the benefit of any members who were unfortunate to miss any of the regular meetings.

After the officer elections – Cecil, WD6FZA will be speaking to us regarding the analog and digital voice linked repeater system called PAPA.

## EARS Event Calendar - 2011

- Nov 10 Monthly Meeting, 7:30 p.m.
- Nov 17 Board Meeting, 7:00 p.m.
- Nov 19 Monthly Breakfast, 8:30 a.m.
- Nov 26 VE testing
- Dec 10 EARS Christmas Party, 7:30 p.m.
- Dec 15 Board Meeting 7:00 p.m.
- Dec 17 Monthly Breakfast, 8:30 a.m.
- Dec 31 VE Testing

## Inside this issue

Welcome to October's ALL EARS – p.1  
President's Corner – p. 2  
Program Director's Report – p. 2  
Opportunity Drawing Update – p.2  
Palomar Operating Day – p.3  
New Home Required – p.3  
Current EARS Membership – p.3  
HAM Nation – Damnation! – p.3  
Proposed club officers for 2012 – p.4  
EARS UK operations – p.4

## Welcome to November's ALL EARS

By Steve Venner, W6TAN



Hi all,

Sorry to say that I've decided that my "TAN's Travels" article will have to wait until the New Year.

I have however managed to include a short paragraph or two about my amateur activities back here in the U.K. I hope you like it.

There was one error which crept into last month's edition, and that was the dates given for November's board meeting, and November's Monthly breakfast were swapped.

The correct dates are as shown on the left.

**I'd also like to take this opportunity to remind you that the 2012 dues are now due!**

Yes, it's that time of year again... Time that is to renew your membership in your favorite Club devoted to your favorite hobby.

It's either that or be shunned in the New Year as a scurrilous deadbeat.

So don't let such a horrible fate befall you - Renew now!

All you have to do is fork over your \$15 to our treasurer Teri Bloom (W6TRB). Alternatively mail it in, or bring it to the next club meeting.

Also, consider paying for more than one year at a time... It saves our treasurer some work! And remember - life membership is only \$150 (\$38 for family members).

73,  
Steve, W6TAN.

## President's Corner

By John Musselman, N6EP



Hi All,

Well, the cold weather has gotten here, but fortunately radio waves aren't slowed down any by the low temperatures.

These brisk days bring thoughts of the Holidays and that means the second busiest time of the EARS calendar (besides Field Day). The Escondido Christmas Parade and the EARS annual Christmas Party will both take place a month from now on Saturday, December 10. The Parade - weather permitting, and the Party regardless. Mark your calendar now.

Speaking of the Parade, we are searching for a new EARS Parade coordinator. After umpteen years doing an outstanding job for us, Konrad, N6UKO, has decided to call it quits. Who will take over? We need someone to coordinate EARS participation in the Parade. That means going to a few Parade meetings, getting volunteers (there's no shortage of help there), assigning positions and either running the net or getting someone to do so. (EARS is also planning an entry in the Parade, but this is not part of the job.)

I can't say enough about the great work Konrad has done for us over the years. His dedication has really helped all of us to focus our energies toward public service and community support and helped put us in the great position we are in with respect to the City.

So if you'd like to help, please let me know. This is a great way to serve your community and your fellow hams. We need to get someone lined up right away. It would be a tragedy if EARS did not participate in the Parade.

As for the Christmas Party, which takes place the afternoon of the Parade, John, W9EN, and Lynn Belstner have graciously opened their house to us once again. I'm told there will be some special events this year not seen in years past. And I'm hoping for an impromptu pool tournament for the more competitive among us. I assume John's been practicing every day so look out for him.

Hey, this is a fun time of year coming up and a great time for celebrating the friendships which define EARS.

73,  
John

## Program Director's Report

By John Belstner, W9EN



### November 10 Presentation:

Besides the 2012 EARS Club Officer Elections, Cecil, WD6FZA will be speaking to us regarding the analog and digital voice linked repeater system called PAPA.

### December 10 Presentation:

The EARS Christmas party – Not a presentation as such, just tons of fun!

Details soon to be available on the EARS website:  
<http://www.earsclub.org>

## Opportunity Drawing Update

By Steve Venner, W6TAN



Tickets for the next opportunity drawing will be on sale at the EARS general meetings and other EARS events (i.e. the EARS Christmas party).

We currently have two prizes on offer:

- The first is a 30 Amp desktop power supply:

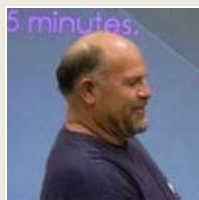
<http://www.powerwerx.com/batteries-chargers/powerwerx-30-amp-desktop-switching-power-supply-powerpoles.html>

- The second is a crimping tool for Powerpole 15, 30 and 45 Amp contact sizes + a selection of Powerpole connector ends.

<http://impulse-electronics.com/view%20tools.aspx?uid=2078&partname=TL-TRICRIMP>

## Palomar Operating Day

By Dennis Baca, KD6TUJ



On Sunday, November 20<sup>th</sup>, Palomar Amateur Radio Club will host an Operating Day at Rancho Del Oro Park in Oceanside.

We will have HF on 10/15/20 and maybe a wire up for 40m. We'll also be on 2m, 220, and 440.

**OPERATING DAY**  
Sunday, November 20, 2011

Rancho Del Oro Park  
**JOE AND MARY MOTTINO YMCA**  
4701 Mesa Drive  
Oceanside  
9:00 AM to 5:00 PM  
HOSTED BY PALOMAR AMATEUR RADIO CLUB  
[www.palomararc.org](http://www.palomararc.org)  
Contact Dennis KD6TUJ (760) 672-0223  
Come operate on the ham bands at Rancho Del Oro park  
70cm, 2m, 6m, 10m, 15m, 20m

We hope to interest new people into Amateur Radio, and help current licensees with questions.

If you have not been on HF, come give it a try.

We don't know where in the world we will contact this time. Prior events include Russia, Aruba, Ecuador, and Iceland.

This is also a phone contest weekend.

Please visit the PARC website for more details:  
<http://www.palomararc.org>

Dennis  
Palomar Amateur Radio Club

## New Home Required

By Konrad Wallenda, N6UKO



Hi all,

For personal reasons, I need to get the EARS Trailer Tower out of my yard, including all of the associated equipment (antennae, co-ax cables etc).

If you can help with this, please contact me ASAP.

Many thanks,  
Konrad.  
(760) 743-8826  
[n6uko@aol.com](mailto:n6uko@aol.com)

## Current EARS Membership

By Steve Venner, W6TAN



There was one new member joining EARS this month:

Hans Mesch, KC6QDE

**Welcome aboard Sir!**

The current EARS membership as of 10<sup>th</sup> of November 2011 is:

- Life: 51
- Paid: 67
- Total: 118

## Ham Nation – Damnation!

Details supplied by John Musselman, N6EP



In case you've not heard - HAM Nation is the new TWIT show about ham radio.

Bob Heil, with various co-hosts and guests will cover the excitement and importance of

ham radio - from tossing an antenna wire in a tree allowing you to talk to the world, to the importance of ham radio operators in time of disasters.

HAM Nation airs live each Tuesday at 6:00 PT/ 9:00ET on <http://live.twit.tv>.

## Proposed club officers for 2012

By Steve Venner, W6TAN



Hi Everyone,

Since the publication of October's ALL EARS, the proposed slate of EARS's Officers for 2012 has changed.

At the time of writing this article, the position of Vice President is currently vacant, so the updated slate of EARS club officers is as follows:

President: Robert J. Kitson

Vice President: **Currently vacant**

Secretary: Vince Sheetz

Treasurer: Teri Bloom

Emergency  
Services  
Coordinator: Fred McDavitt

Immediate Past  
President: John Musselman

Members At  
Large: Jeff Murdock  
Marvin Munster  
Jo Ashley  
John McNelly  
Michael Hightower

If you feel that you have the necessary qualifications to fill this very important role, please contact Robert Kitson, KI6SBL for more details.

If it helps you decide, I've heard that most (if not all) of next year's meetings have already been arranged, so there's really not much for the incoming VP to do!

## EARS UK operations

By Steve Venner, W6TAN



For reasons which will shortly become apparent, I was going to call this article "Now you see it, now you don't".

As my circumstances here in the UK have recently changed – I decided to rename it to EARS UK operations to reflect how I see my current amateur radio activities.

Sorry, I digress...

Many (many) years ago when I first got my UK HF license, the house where I was living had a very small plot of land, so it was going to be very difficult (if not impossible) to put up any sort of HF dipole.

After discussions with my local Ham Radio Dealer, he suggested that I try a multi-band vertical. I took him up on his generous offer of a Cushcraft R7, which was supposed to cover all bands from 10m-40m.

After careful assembly, I installed the antenna to the back of my garage wall. Unfortunately, when testing it out, I could not get the antenna to resonate on the bands where I wanted to operate, and the SWR plots didn't come close to matching the manufacturer's specifications.

After contacting my dealer and explaining the situation, he contacted Cushcraft – who eventually sent a new set of traps.

I replaced the traps, and although there was some improvement, the SWR plots still didn't match Cushcraft's specifications.

I decided to use that antenna as it was, along with the radio's built-in ATU. This worked OK, but not great, especially not on 20m or 40m.

Now bearing in mind that this antenna is about 27' long, and that it was held to the back of the garage wall with some inappropriate brackets only a couple of feet apart – it didn't take too long before we experienced some windy weather, and the antenna found itself leaning at about 30 deg from vertical!

Basically, the brackets were subject to quite a bit of force, so-much-so, that it had even pulled some the bricks out of the wall of the garage!

For safety reasons, I decided that it would be best dismantle the antenna, and stick with a simple wire dipole in the attic – just for 20m. Unfortunately, the wire antenna didn't really work all that well. It had good SWR, but was not very efficient.

The Cushcraft was packed up, and put in a safe place for a rainy day (i.e. once the garage wall had been rebuilt!)



Deciding that my HF operations would be very limited – I concentrated on 6m and up, so I purchased a 40' pneumatic tower, along with 3 beams (6m, 2m & 70cm), and a tri-band vertical – all mounted on top.

This was fine, but there was no real activity to speak of, and so I started getting a little frustrated with the whole 'ham scene' – at least as far as my amateur abilities were concerned.

In the mean time, the nice neighbours at the bottom of my garden had cut down their high conifer trees – so my VHF antenna stack was now in full view of their living room. They were not too happy.

Fortunately for me, there was nothing they could really do, because the antennae & mast did not need planning permission, and it was an existing structure.

However, being the good neighbour that I am (and the fact that my VHF activities were pretty much dead), I took the antennae down and dismantled them. I left the tower in place as my neighbours' couldn't see it, and it gave my mother a place from which to hang her clothes-line!

The VHF antennae were also put in a safe place for a rainy day!

It was around this point time that Gina & I came to the good ol' USofA, so the antennae were to remain in storage until needed.

As most of you know, I returned back to the UK in February this year. Back then – I had no idea as to where I would be living – let alone what my amateur operating activities would be.

Gina & I were hoping to move back into our original house – but to do that meant that we needed to find another house for my mother to live in (she was our house-keeper while we were living in the US).

For legal reasons (and the fact that our house in the UK is tiny), we were not able to stay with my mother, so we ended up staying with my father-in-law while we sorted out jobs and another place for my mother to live.

During this time, my father-in-law's health took a turn for the worse, so we decided that it would be best to stay with him until we knew for sure what was going to happen.

This meant that my mother continued to stay in our house, and that we could take our time finding her another place to live.

As a lot of our stuff which we had brought back from the US with us was now in 'storage' at my mum's house, we took advantage of setting up a small 'office' complete with desks, filing cabinets, computer and erm... some radio gear!

Nothing too fancy, just my old trusty Yaesu FT1000 MP MkV field.



Initially, I used the old 20m wire antenna that still in the attic. It still had a good SWR, and surprisingly, it was still as useless as before!

Something better had to be done...

About the end of August, I decided that I could mount the Cushcraft R7 on to the pneumatic tower that was still supporting my mother's clothes-line.

So again, after some careful assembly, the R7 was now firmly strapped to the back of the garage.

This time it wasn't going to move, and more importantly, it wasn't going to pull the garage wall down!

The tower weighed around 200lbs, and it was securely bolted to the wall using brackets which I had made from sturdy angle iron (Yes - I can weld too Konrad!)



Now that the antenna was fixed in place, it was time to see how it performed.

Very surprisingly, the SWR measurements now showed that it was tuned exactly where I wanted to work in the bands, and that the readings matched or exceeded Cushcraft's! I didn't even need to use the ATU on the radio.

As for on-air performance, it was incredible – every band to which I tuned was just like field day!

There were stations everywhere. Many prefixes I'd never even heard of. Maybe it was the band conditions / sunspot-cycle etc., but I was very excited.

My first contact within a few minutes was to a German YL special event station, and that was soon followed by a station from Dubai.

As it was now getting late in the afternoon, and Gina & I had to go back to her father's house for dinner – we decided to call it a day, and return at the weekend for some real fun.

So now you see it...

The following morning, my mother phoned to say that the neighbours from the bottom of the garden had been around, and that they objected to the antenna being there because it was spoiling the view from their living room.

That wasn't bad – the antenna had only been up for about 15 hours, and it was already attracting complaints!

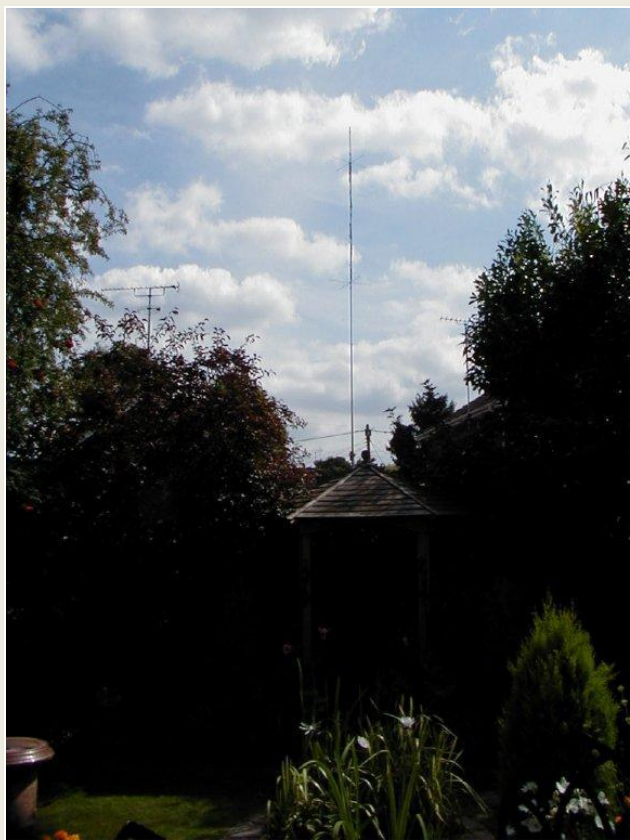
As I didn't want to cause any problems between them & my mother, I decided to see what could be done, besides – they are actually very nice neighbours (despite them complaining about the antenna).

From the front of the house in the street – it didn't look too bad.





However, from my neighbours' living room – I could see why they were complaining.



You have to realize that they are only about 20'-30' away from the antenna.

As I said, they have always been very nice neighbours, so we discussed what could be done.

I stated that I didn't actually need planning permission because of the type of antenna, and the way in which it was mounted, but if they really objected to it, I would take it down.

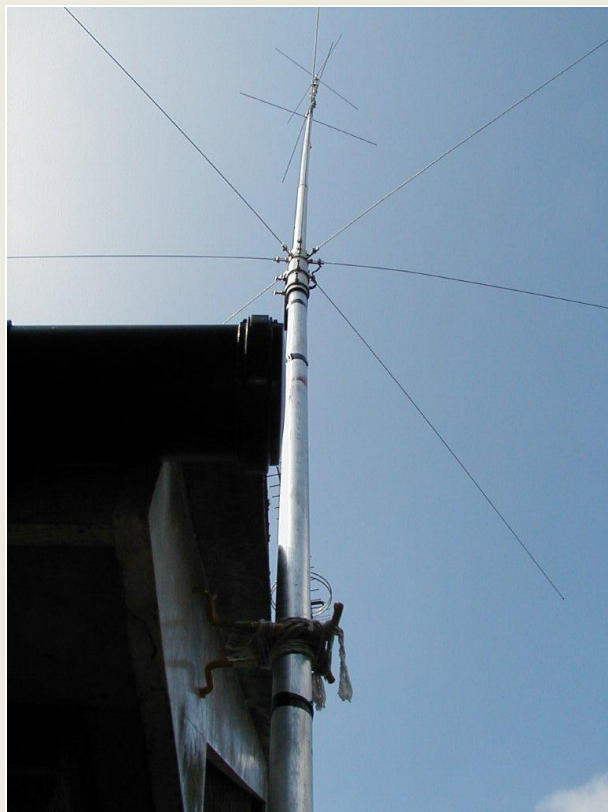
As their objection was because it spoiled their view from the living room, I asked that if I could move it such that they couldn't see it – would that be OK.

This they agreed to, and so I went back to my garden, and found another spot where I could mount it, and that it would be hidden from their view by some big trees. It also had the added bonus that it wasn't easily seen from any of my other neighbours' houses, or from the street.

So now you don't...

The following weekend, I got to work in moving the antenna. It was now on the other side of the garden, and temporarily fixed to the fascia-board of the house.

It's not as secure as it was previously, but if it ends up staying at my mother's house, then I will mount it properly.



As I said – it's more difficult to see from the street.

So how does it perform now?

Well, the SWR readings aren't quite as good as they were when the antenna was mounted on the back of the garage.

I've put this down to the fact that the radials are a lot closer to the roof of the house than they were to the roof of the garage.

Having said that – the measurements are still miles better than they were all those years ago!

On-air performance is very good, although I now have trouble making contacts on 40m compared to what it was like before I moved it.

In the relative short time since the antenna was erected back in August, I have made around 500 QSOs.

That might not sound like a lot, but I tend to operate for a just few hours during the weekends, and maybe for a couple of hours one day each week.

So far:

- I've Worked All Continents (just waiting for QSL cards)
- I've worked 80 different countries for DXCC (38 confirmed in LoTW, 30 confirmed in e-QSL)
- I've worked 28 states for WAS (9 confirmed in LoTW, 7 confirmed in e-QSL).

I took part in the CQ WW SSB contest a couple of weeks ago, and worked 260 station in 11 hours.

I got almost 63,000 points, so I'm really really happy!

The biggest issue that I have at the moment is that I can't hear or work any West Coast stations!!!

The other day I worked a guy who was in the bay area. Unfortunately, he was controlling his rig via the internet – which was back on the East Coast!

Bummer!!!

Now some of you might be asking – what do I do during the times when I'm not at my mother's house?

Well, I have this little Icom IC7000 to use while at my father-in-law's house.

At the moment, I have it set up in the living room, with a simple wire dipole strung across the living room window.

If you look closely in the picture below, you might just see it.



As for performance - the antenna was cut for operation on 10m, and on that band it has good SWR as one might expect.

However, with it being inside the house, against metal-framed windows, it doesn't work all that well (as one might expect).



I've heard stations from China, Australia, Argentina etc., but I just can't work them.

Anyway, we're not sure what's going to happen regarding Gina's dad's house at the moment. But if we end up staying here (which we're hoping to), then I will set up a real station, and that will be another story to write!

For now - 73 to you all,  
Steve, W6TAN (or should I say G0TAN).



## General Information

### EARS Club Officers for 2011:



#### President

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



#### Vice President

John Belstner, W9EN  
[w9en@arrl.net](mailto:w9en@arrl.net)



#### Secretary and Treasurer

Teri Bloom, W6TRB  
[w6trb@earsclub.org](mailto:w6trb@earsclub.org)



#### Emergency Services Coordinator

Fred McDavitt, W6PBR  
(760) 737-6837  
[mcdavitt\\_fred@cox.net](mailto:mcdavitt_fred@cox.net)

### Officers at Large:



Jeff Murdock, AE6GM  
(760) 730-3657  
[cozy765@pacbell.net](mailto:cozy765@pacbell.net)



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



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



Viv Wentworth-Kitson, W6NWF  
(760) 715-2876  
[w6nwf@arrl.net](mailto:w6nwf@arrl.net)



Marvin Munster, W6MJM  
(760) 747-2223  
[w6mjm@amsat.org](mailto:w6mjm@amsat.org)  
*+ Property Manager*

### Non-elective:



#### Past President

Robert Kitson, KI6SBL  
(760) 715-2876  
[ki6sbl@earsclub.org](mailto:ki6sbl@earsclub.org)



#### Historian

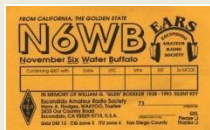
Harry A. Hodges, W6YOO  
(760) 743-4212  
[w6yoo@cox.net](mailto:w6yoo@cox.net)



#### Webmaster and Newsletter

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

## General Information cont'd

### 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.

### 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 REFLECTOR

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.

### 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

### 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.

### MONTHLY BREAKFAST

EARS members meet socially the third Saturday of each month at the Westside Cafe, on West Ninth Ave. at the corner of Redwood St. at 8:30 a.m.

## 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!".

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

### SECTION NEWS

The latest happenings around San Diego are available at [www.arrl.org/sections/SDG.htm](http://www.arrl.org/sections/SDG.htm), the official website of the ARRL San Diego Section.

### 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.

Get yours today by contacting Rob 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:

The LDS Church,  
1917 East Washington Avenue,  
Escondido,  
CA 92025.

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.org](http://www.sandarc.org).



## 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.