

ALL EARS

www.earsclub.org

The official bulletin of the Escondido Amateur Radio Society – N6WB October 2012

October's meeting details

There is no program planned for October.

As last month, we will be providing alternative 'entertainment' for the evening.

We hope to see you all there!

EARS Event Calendar - 2012

- Oct 11 Regular Meeting, 7:30 p.m.
- Oct 18 Board Meeting, 7:00 p.m.
- Oct 20 Monthly Breakfast, 8:30 a.m.
- Oct 27 [VE Testing](#)
- Nov 08 Regular Meeting, 7:30 p.m.
- Nov 15 Board Meeting, 7:00 p.m.
- Nov 17 Monthly Breakfast, 8:30 a.m.
- Nov 24 [VE Testing](#)
- Dec 15 Monthly Breakfast, 8:30 a.m.
- Dec 16 Christmas Party, 4:00 p.m.
- Dec 20 Board Meeting, 7:00 p.m.
- Dec 29 [VE Testing](#)

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Welcome to October's ALL EARS

By Steve Venner, W6TAN



Hi everyone,

Firstly, many apologies for the lateness of this edition of ALL EARS.

As some of you may know, I finally now have a part-time job. It was supposed to be only three day a week, but has now turned into 6 or seven days as the need arises.

It has also required me to be away from home for the last three weekends, and along with my university studies this has meant that ALL EARS had to be put on the back-burner with the heat turned right down low.

Anyway, things are back to 'normal' now, so I shouldn't be late with November's edition.

I would also like to take the opportunity to thank all those who submitted articles and photos for this edition... It was very much appreciated!

Specifically, my thanks go to Dick Kalkofen, Roger Gagos, Teri Bloom, Robert Kitson (Viv for the Spires photo), and Bruce Woods for their great efforts.

It seemed that my comments last month had an effect, and maybe next month will be as productive!

I look forward to receiving your articles and photos as always.

For now - 73,
Steve, W6TAN.

Officers Slated for 2013

Information provided by Robert Kitson, KI6SBL

By now you should have seen the e-mail which Robert sent a week or two back regarding the proposed slate of EARS officers for 2013.

For those of you who didn't get the e-mail, here they are in all their glory:

EARS Club Officers for 2013:

**President**

Fred McDavitt, W6PBR
(760) 737-6837
mcdavitt_fred@cox.net

**Vice President**

Vacant

**Secretary**

Michael Hightower, KF6SJ
(858) 613-9240
mike@hightower.com

**Treasurer**

Teri Bloom, W6TRB
w6trb@earsclub.org

**Emergency Services Coordinator**

John McNelly, AF6UA
(858) 449-3326
ears@mcnelly.org

As can be seen above, we currently have a vacancy for the Vice President's position.

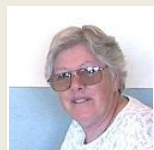
If you think you have what it takes to fulfill this vital role, please contact either Robert Kitson, KI6SBL, or John Musselman, N6EP.

They are awaiting your call!

On a similar topic, beginning next year, EARS will also require two members who can represent the club at the monthly SANDARC meetings.

Again, please contact Robert Kitson for more details.

Members at large:



Jo Ashley, KB6NMK
(760) 741-2560
kb6nmk@amsat.org



Marvin Munster, W6MJM
(760) 747-2223
w6mjm@amsat.org
+ Property Manager



Dirk Reschly, N6SUN
(760) 743-5839
n6sun@earsclub.org



John Belstner, W9EN
w9en@arrl.net



Bruce Woods, KI6YFH
(760) 215-4582
bewoods75@yahoo.com

Non elective:

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**Historian**

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**Webmaster and Newsletter Editor**

Steve Venner, W6TAN
+44 1895 636099
w6tan@earsclub.org

Christmas is a-coming (reprise)

By John Belstner, W9EN



Would you believe I saw Christmas stuff in the mall the other day?

It's not even Halloween!

Well, this made me think about the annual EARS Christmas party and how the last few years it's been one of the few opportunities for me to catch up with many of the members in the club.

Continuing in the tradition, this year's EARS Christmas party will be held December 16 at the QTH of John-W9EN.

A special door prize will be awarded to the 1st brave soul to jump in the swimming pool.

Mark your calendars now so you don't forget!

[ED: Note that it appears that the EARS Christmas party will be held on a Sunday this year – a week after the Escondido Christmas parade. Normally, they are on the same day, and it is usually the second Saturday of December. John Belstner, W9EN needs to confirm the date.]

Escondido Christmas Parade

By Bruce Woods, KI6YFH



Hi everybody,

It is that time again for sign-ups for the Escondido Christmas Parade on Saturday, December the 8th.

The time is from 7:00am to about 12:00 p.m.

Everybody did a great job last year and I am asking you if you would volunteer again this year as I need wonderful people like you to step up to the plate.

Please give me a call and let me know.

Bruce Woods, KI6YFH
(760) 215-4582

EARS Elmer List

By Steve Venner, W6TAN



Here is the current list of those kind soles 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*

Spires is No More

Information provided by Robert Kitson, KI6SBL

In case you didn't know, on the morning of 2nd of October, at around 03:00 SPIRES Restaurant blew up!



[Photo courtesy of Vivian Wentworth-Kitson, W6NWF]

We understand no one was hurt, and according to the security guard there is no idea of the cause yet.

It seems unlikely that it will be rebuilt in 2 months, so the meeting for the Escondido Christmas parade will most likely have to find another location.

In the meantime, we are recommending that we meet back at the old the Westside Cafe, 9th and Redwood for the EARS breakfasts.

Why you ask?

Well, for starters, it's under new ownership, new staff, new furniture and paint job, and (drum roll) a new menu!

Hot off the press:

Yesterday (the 20th) we had a very successful return to the Westside Cafe for the October EARS breakfast.

Under its new management the food seems better and definitely less greasy.

The prices remain reasonable and the staff is just as friendly and pleasant as the old staff.

We also learned that Peggy Sue Productions and the Westside Cafe have teamed up to do a Dinner Mystery Theater on Friday, October 26th and Saturday, October 27th at 7:30 p.m.

Each night they will perform: "Night Stage to Big Shaft".

There is a surprise prize if you solve the mystery.

The cost is \$25.00 for a spaghetti dinner and fun filled, entertaining evening.

To make a reservation you go to, or call the Westside Cafe:

912 South Redwood Street – (760) 739-9265.

Or go online to:

www.peggysueanddinnertoo.com

Note that EARS does not sponsor or endorse this event, we are just trying to help a small new business in Escondido get the word out on their programs.

Thank you,

Robert Kitson, KI6SBL
2012 EARS President
(760) 715-2876

Opportunity Drawing Update

Information provided by Teri Bloom, W6TRB

The next item for the opportunity drawing is a Yaesu VX-7R, with a MH-57A4B microphone and a FBA-23 Battery case.

All the above items are in new condition, and were a donation to the club.

Tickets will be on sale as normal at October's and November's meetings.

Vintage Amateur Radio – Pt 1

By Roger Gagos, K6EQ



“What else can I do with this hobby?”

Chats at local club meetings and on-the-air discussions often focus on the latest advances in amateur radio equipment, digital modes, VHF/UHF and other current subjects.

There are a few of us who, while enjoying that, can also be heard discussing our latest project to revive and operate vintage equipment.

That gear from yesteryear that wound up in someone’s closet, garage, or even the dumpster, having given way to higher-performance and better specifications provided by later technologies, offers a certain fascination.

In many respects, this interest is like the vintage automobile hobby which continues to flourish, especially on Summer Friday nights in Escondido!

Folks who tend to like vintage gear typically owned the equipment years ago, or more often just lusted for it when their youthful finances could hardly support the purchase requirements. I’ve heard it said that we are “buying back our youth”...well, maybe so...why not?

This is really a huge subject...

The ARRL publishes an entire collection of reprints in **ARRL’s Vintage Radio**, and Ray Osterwald, WODMS publishes a monthly magazine called “Electric Radio” (“celebrating a bygone era”) which has worldwide circulation. The internet is loaded with it; search YouTube, for example.

I’ll just try to touch on the basics from a chronological viewpoint and include internet references in footnotes for further reading and some local operating activities of interest.

Early Ham Radio

As most of us know, the first radio transmitters used high-voltage arcs (spark gaps) to generate electromagnetic waves. An early technological advance was the rotary spark gap that produced a

tone, of sorts, which could be detected by galena crystal receivers or “coherers” over a distance of many miles.



Soon the cacophony of the airwaves required some organization and, in the United States, resulted in the 1927 establishment of the Federal Radio Commission, forerunner of the FCC.

Some hams enjoy collecting or recreating those early transmitters and receivers. ^(1, 2)

Pre-War Period

With the passing of the Radio Act of 1934, the FCC was formed as equipment became more sophisticated and operation was separated into various frequency bands according to need and purpose.

Ham radio gear was mostly homebrew then as evidenced by the many ads for parts and designs in the magazines of the period. ³



Economics forced use of parts and pieces of broadcast radio of the time as well.

Several fledgling American amateur radio manufacturers began during the 1920's and 1930's started by pioneers such as Arthur C. Collins, William J. Halligan (Hallicrafters), Oscar Hammarlund and others.



Many vintage ham collectors prize an original receiver or transmitter from that era and bearing the names of the founders.^{4,5,6}

Post War

During World War II, amateur radio operators were prohibited from transmitting and had to be content with building and operating receivers or planning for the post-war era.



When that time came, there was a real boon in military surplus equipment with very durable construction and often simple designs by today's standards.

Large inventories of parts also were sold by many companies in addition to complete sets, many unused, and usually at bargain prices.

Today, military surplus is a big area of interest for many hams who, when needed, design conversions to operate the gear on amateur frequencies. Have you ever seen (or owned) an ARC-5, BC-348, or the like which may have served on a B-24, B-17, or B-29 bomber?^{7,8,9}

Next month I'll summarize the continuation of the post-war era, the rise of single-sideband phone and the offshore invasion of imported ham gear.

Meanwhile, take a listen to, or join in with some of the local vintage radio operators easily heard evenings on 3870 AM.

Folks begin gathering around 1830 local time with formal nets at 1900 on Monday and 2000 on Wednesday.¹⁰

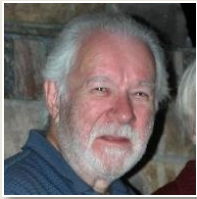
Also, there is a Vintage SSB net for equipment manufactured prior to 1980 on 3895 kHz. (or "kilocycles" as they often say to reflect the former term for frequency) Tuesday at 1900 hours.

References:

1. http://en.wikipedia.org/wiki/Federal_Radio_Commission
2. www.stonevintageradio.com
3. "QST" any issue from 1920-1940.
<http://www.arrrl.org>
4. <http://www.radioing.com/collins/tx06.html>,
5. <http://antiqueradio.org/halli12.htm>
6. http://www.skywaves.ar88.net/commrx/Hammarlund/Comet/Comet_Pro.html
7. <http://aafradio.org/flightdeck/arc5-1.htm>,
8. <http://hug-a-bug.com/BC-610.html>
9. <http://www.jamminpower.com/main/bc348.html>
10. <http://www.ami-west.com>

PC Tip No.1

By Dick Kalkofen, K6KAL



How to Turn Off Indexing Of Your Local Drive In Windows XP / 7 / Vista

If you are troubled by a slow computer used in your shack, or want to increase the performance of your Windows PC further, then turning off Indexing of your local drive(s) is simple way of boosting the performance.

This option is automatically set in Windows XP, Windows Vista, and Windows 7.

Indexing is enabled because it helps Windows index your files and folder for faster search.

You must ask yourself, how often do I search my hard drive, and would a few extra seconds be an issue. If you answer is seldom or I didn't know I could do that, the steps that follow are for you.

You must also be thinking why turn it off; Microsoft enabled it due to a reason?

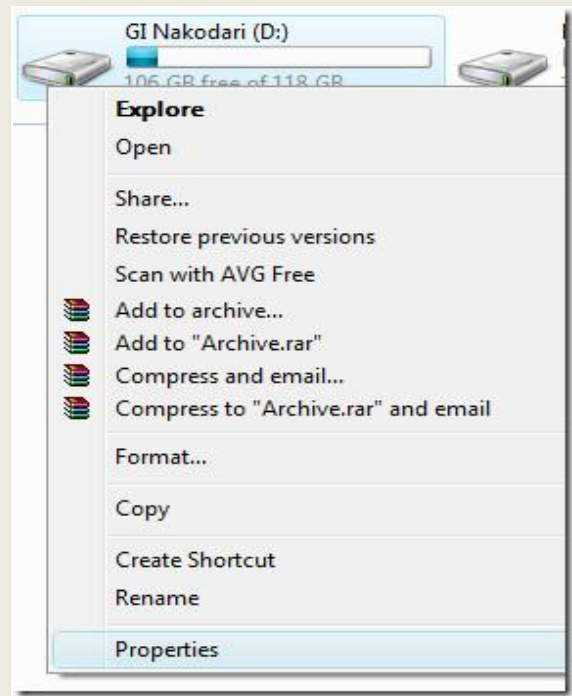
Well, yes, basically you are right here but sometimes Microsoft choices are not for you, but the masses. Microsoft might have forgot to make their search better and more powerful because they were focused more on releasing Windows on time, or trying to fix that last Blue screen of Death issue.

You could use [Google Desktop](#) or [Windows Search](#) alternatively which are both faster than the built-in search and of course more powerful, but counterproductive.

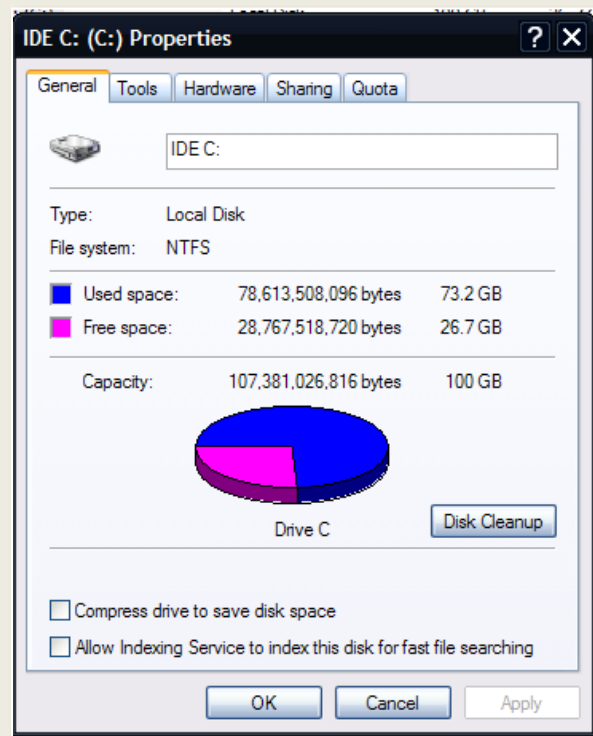
They consume system resources just as Microsoft Indexing does, so be warned.

But that being said let's get down to business...

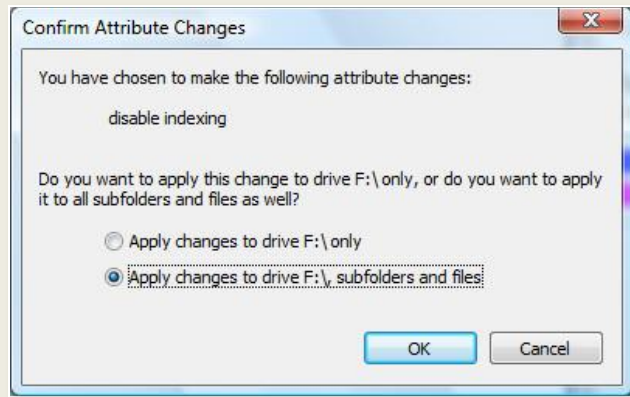
To Turn off Indexing on your local drive open **My Computer**, right-click any **Local Drive**(C, D, etc) and go to **Properties**:



Now in the General tab you will find a checkbox at the bottom named "**Index this drive for faster searching**", uncheck it as shown in the screenshot below:



It will now ask if you want to turn off indexing only in the root of the drive or you want to turn off indexing for all files and folders. Select **“Apply changes to all files and folders”** and click **OK** as shown in the screenshot below:



If you select the option saying “Apply changes to root of the drive (C:\, D:\, etc)” then Windows will still index your files and folders, so please do not select this option.

Now sit back while Windows turns off indexing for each and every file, it might take few minutes because every file has a system attribute that tells Windows if it can be indexed or not, so it has to be updated for all files.

Note that if you turn of Indexing where your Windows is installed, let's say drive C, then it will not affect other drives, other drives (D, E, etc). They will still be indexed by Windows. If you want to completely turn off indexing then you will have to do it turn by turn with every drive.

To enable indexing, just follow the above procedures, but instead of un-checking, just check the box where it asks if you want the drive to be indexed.

That should do it.

Indexing is something you can live without, and your PC will run faster without it.

Current EARS Membership

By Steve Venner, W6TAN



This past month, we had two new members joining:

Mark Schlesinger, N6NNI
Tom McMillan, KJ6YAR

Welcome aboard!

Therefore, the current EARS membership as of 21st October, 2012 is:

- Life: 51
- Paid: 77
- Total: 128

Tales from the Treasurer

By Teri Bloom, W6TRB



Hi all,

Autumn is the time I use for maintenance; trimming the tree branches, cleaning the house gutters and drains, replacing batteries in the smoke alarms

and clocks, and of course - checking for wear and tear on the antennas!

After lowering the antenna to ground level, I check each one for loose connections, corrosion, missing hardware, then lubricate, tighten, replace where required and wrap new coax sealant over the connections.

Last winter, with help from a friend, I built a Hendrix Deluxe Tenna Dipper kit (it works!) and now I use it to verify the antennas are in working order, then spray lube the pulleys and send the antenna back up their poles.

It's easy in Southern California to ignore annual maintenance. We don't have harsh weather to contend with but our sun and salt air can do some real damage and taking a couple of hours to check things can save heartache and missed contacts later.

73 de W6TRB

Technical Challenge

By Steve Venner, W6TAN



This month's technical challenge is to do with Signal-to-noise ratios

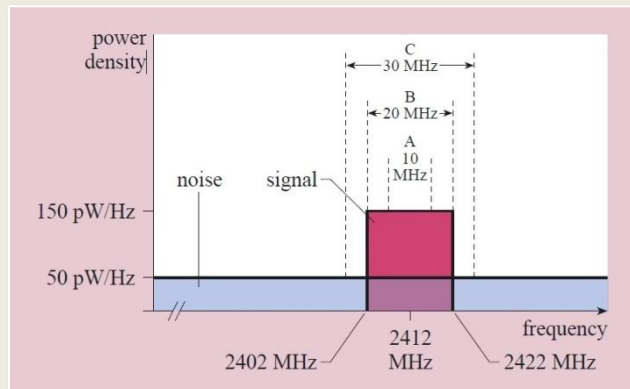
This is one parameter which is sometimes given when specifying the sensitivity of

receivers.

The signal-to-noise ratio is defined as the power ratio between a signal (the meaningful information) and the background noise (the unwanted signal)

The signal-to-noise ratio is found by dividing the signal power by the noise power. The larger the number the better, because that indicates that the signal power is greater relative to the noise power.

The following figure shows the transmitted signal power spectrum in a particular region of space. It also shows the noise power spectrum.



The problem:

There are three receivers, A, B and C, each of which has a different passband width.

Your task is to find the signal-to-noise ratio at each of these receivers.

To help you on your way, I'll give you an example:

Receiver A operates with a passband of 10 MHz centered on the channel frequency, so the signal power is:

$$150 \text{ pW/Hz} \times 10 \text{ MHz} = 150 \times 10^{-5} \text{ W} = 1.5 \text{ mW}$$

The noise power is:

$$50 \text{ pW/Hz} \times 10 \text{ MHz} = 50 \times 10^{-5} \text{ W} = 0.5 \text{ mW}$$

Hence the signal-to-noise ratio is:

$$1.5 \text{ mW} \div 0.5 \text{ mW} = 3.$$

Now it's your turn...

Calculate the signal-to-noise ratios for the other receivers B and C, and hence state which of A, B and C has the best signal-to-noise ratio.

Also, state the signal-to-noise ratios in dB for all three receivers.

That's it for this month – the answers will be given next month as normal.

73,
Steve, W6TAN

ED: To allow you more time to tackle the technical challenge – I will publish the answers next month!

General Information

EARS Club Officers for 2012:



President
Robert Kitson, KI6SBL
(760) 715-2876
ki6sbl@earsclub.org



Vice President
John Belstner, W9EN
w9en@arrl.net



Secretary
Vince Sheetz, W6CD
w6cd@earsclub.org



Treasurer
Teri Bloom, W6TRB
w6trb@earsclub.org



Emergency Services Coordinator
Fred McDavitt, W6PBR
(760) 737-6837
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Officers at Large:



Jeff Murdock, AE6GM
(760) 730-3657
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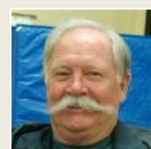
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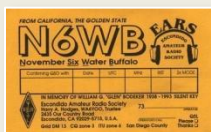


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About ALL EARS:



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

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

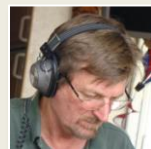
You don't need to be a member. Just drop a note to:

allears@earsclub.org

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 1st Thursday of the month.

Non-elective:



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John Musselman, N6EP
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n6ep@arrl.net



Historian
Harry A. Hodges, W6YOO
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w6yoo@cox.net



Webmaster and Newsletter Editor
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+44 1895 636099
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

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 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

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 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

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

MONTHLY BREAKFAST

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

Due to the fire at Spires, until further notice, EARS breakfast will be at the old venue:

Westside Cafe,
9th and Redwood.

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.

The ARRL Letter is also available to all, free of charge, at 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 or contact Steve Early, Section Manager, (619) 461-2818, or via e-mail at 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 2nd & 4th 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.