

ALL EARS

www.earsclub.org

The official bulletin of the Escondido Amateur Radio Society – N6WB February 2013

February's meeting details

The next meeting's presentation will be given by Andre Hansen, K6AH, and it will be on the topic of HSMM MESH Networks, a 2.4 GHz digital network technology which has applicability for EMCMM.

See Matt's VP article for more details.

EARS Event Calendar - 2013

- Feb 14 Regular Meeting, 7:30 p.m.
- Feb 16 Monthly Breakfast, 8:30 a.m.
- Feb 21 Board Meeting, 7:00 p.m.
- Feb 23 [VE Testing](#)
- Mar 14 Regular Meeting, 7:30 p.m.
- Mar 16 Monthly Breakfast, 8:30 a.m.
- Mar 21 Board Meeting, 7:00 p.m.
- Mar 30 [VE Testing](#)
- Apr 11 Regular Meeting, 7:30 p.m.
- Apr 18 Board Meeting, 7:00 p.m.
- Apr 20 Monthly Breakfast, 8:30 a.m.
- Apr 27 [VE Testing](#)

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Welcome to February's ALL EARS

By Steve Venner, W6TAN



Hi everyone,

Welcome to February's ALL EARS.

We have a bit of a bumper edition this month with several good articles - even one from a non EARS board member!

Thanks to Harry (W6YOO), Matt (N6EAJ), Teri (W6TRB), Rolf (KC6HTR), Robert (KI6SBL), John (N6EP) & John (AF6UA).

Remember – you don't have to be a board member to submit articles for publication in ALL EARS. A simple text file is all that is needed. I'll do the rest. And as always – photos are most welcome!

Until next month - 73,
Steve, W6TAN.

The 'dues' are still due

By Steve Venner, W6TAN

Note: The annual dues are still due, so don't be a scurrilous deadbeat, hand over your \$15 to our treasurer - Teri Bloom, W6TRB.

Either - mail your checks to:

EARS,
PO Box 3243,
Escondido,
CA 92033

Or hand over your 'dosh' to Teri at February's regular meeting.

If you pay by check – don't forget to put your call-sign on the back.

The Presidential Prose

By John Musselman, N6EP



In the early days of radio, ham operators didn't just experiment with radio for fun.

They also thought it was pretty nice to be able to talk at distances without having to pay

the telephone monopoly for the privilege.

Phone calls were expensive in those days, so it made a difference.

Ham radio may not have been the best connection and the choice of who to talk to was limited, but you could talk as long as you wanted for just the cost of the juice to power your rig!

So how would you like to surf the web unshackled from your internet provider? That's this month's topic: using the 'hinternet' instead of the internet.

Well, your choice of website may be really limited, and there aren't many users. But like those early radio pioneers, you only pay the cost of the juice.

The current focus of the 'hinternet' is on emergency services, but who knows where it may lead? I can think of all kinds of uses - boy, the possibilities are limitless.

I'll bet you didn't know that Wi-Fi takes place on part of "our" band. But unlike Wi-Fi users, we can crank up the "juice". Come to our meeting this month and learn how.

Hey, I wish I could get in on the start of something really fun.

Come to think of it, we all can...

John
N6EP

Verbal from the VP

By Matt Tucker, N6EAJ



I would like to thank Fred Brown W6HPH for his noise canceller presentation during our January meeting.

He lugged an oscilloscope to the meeting which made for a great visual aid:



I would also like to thank Major David KG6QDS for arriving extra early to the January meeting to show me the audio/visual ropes at the Salvation Army building.

It let the new guy get setup and comfortable with the equipment before the meeting started.

February's Presentation:

February's meeting is February 14th (yes Valentine's Day), and while you are telling your significant other about the meeting, it might be a good time to suggest that ham radio gear is always a great Valentine's Day gift.

The presentation will be by Andre Hansen K6AH. "HSMM-MESH is an emerging ham radio-based technology which utilizes re-purposed WIFI routers as communications nodes to form a "hinternet" (Ham Internet) in the 2.4 GHz ham band.

The technology has huge implication for emergency and public service communications... and it only takes a Technician license to build and operate.

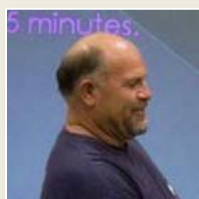
We'll explore the technology, see a demonstration, discuss the various ways it could be used in San Diego County, and how you can get started. It's an excellent ham radio entry-point for computer hobbyists as well as for seasoned hams with computer interests."

If anyone has a ham radio related presentation they would like to give, please contact me (mail4tucker@gmail.com).

See you February 14th.

Palomar ARC Meeting

By Dennis Baca, KD6TUJ



The next meeting of the Palomar Amateur Radio Club (March 6th), will be by John W. Kuivinen, WB6IQS, on the subject of the History of Broadcast Television in the US.

1. Early history of B&W / color TV of the 1930s-1950s.
2. History of HDTV from 1968 to the present.
3. Different types of TV signals (analog and digital) currently available in consumer devices.
4. Comparison of available scan rates vs. picture resolution for different types of signals.
5. RF splitting of the CATV and OTA (Over The Air) RF signals. Why you may or may not need a broadband RF amplifier.
6. Basics of coaxial cables for distributing CATV and OTA signals.

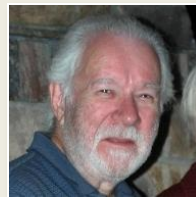
John Kuivinen, WB6IQS, works for a company in Carlsbad that manufactures and OEM digital and analog TV modulators, broadband RF amplifiers, security TV cameras and home audio/video appliances.

PARC meetings take place on the first Wednesday of the month, at 7:30 PM at:

The Carlsbad Safety Center,
2650 Orion,
Carlsbad.

PC Tip No.4

By Dick Kalkofen, K6KAL



Registry Cleanup:

The cleaning of a registry on a PC can impact the performance of Logging software, and the serial connections to your Radio.

Old software that loaded drivers that have since been updated, may still have some artifacts left behind in the registry.

The safest way to cleanup a MS Registry is to use tools. I have listed three I use periodically.

Why three?

Well, each vendor has its' own way of reviewing registries. They are all good, but no one vendor has it all covered. I run each in succession to make a complete cleanup.

- I start with C Cleaner, as it has a built in 'Registry Backup' tool, that will allow a user to restore the registry, should some functions fail to work.
- Next I use Glary Utilities and select Registry Cleaner.
- And last but not least, I use nCleaner.

Why does each find more stuff?

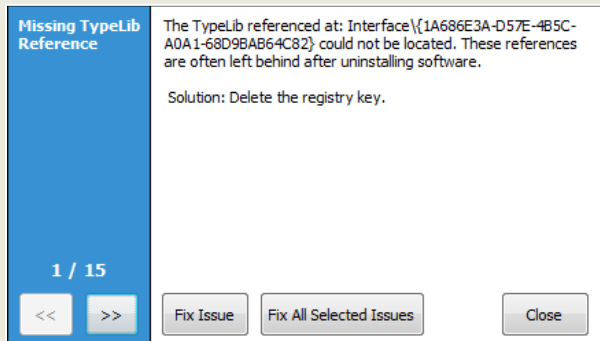
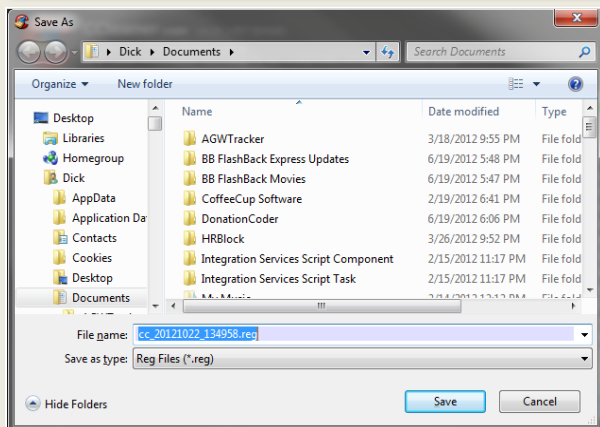
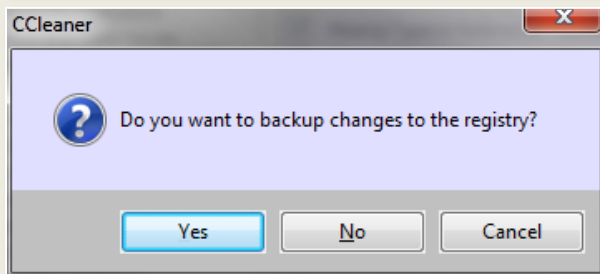
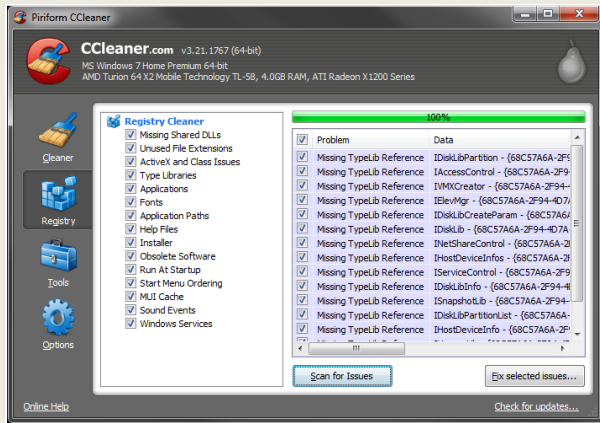
Well some items cover or hide other issues. After they are cleaned, running another process will discover them, etc.

It appears that each vendor has some cleaning processes and procedures that are just slightly different than the others. You can try any one and get good results.

Using all three is at the extreme end of the scale, which I employ, as in any one month I load and unload several programs for testing. That definitely leaves a nasty residue behind.

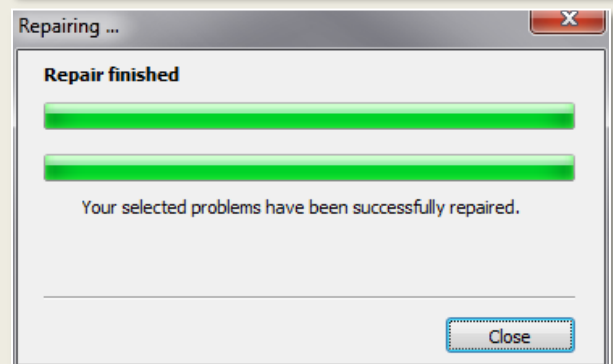
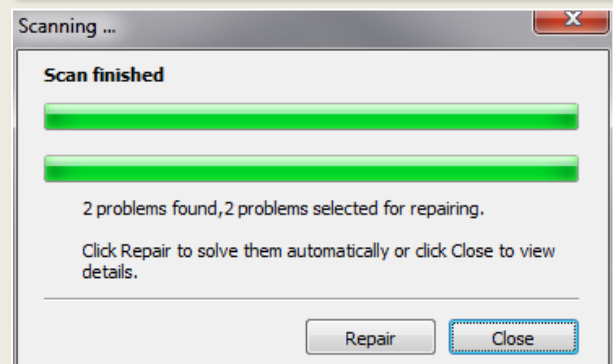
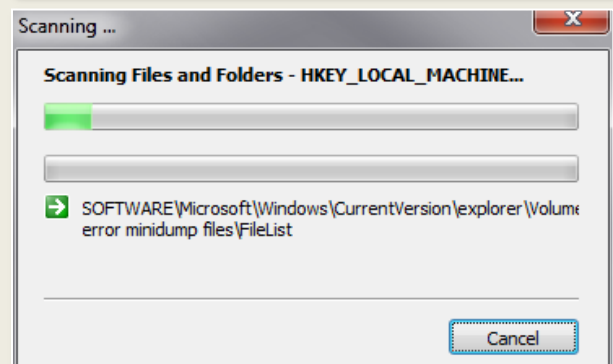
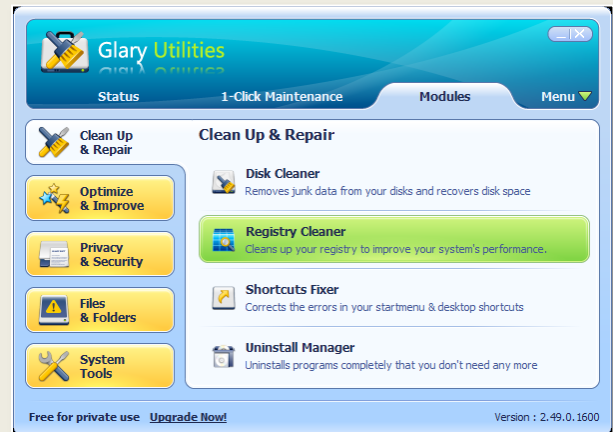
Sample screens of each follow. They are somewhat self explanatory, but to start limit yourself to the 'Registry' cleanup processes for now.

C Cleaner



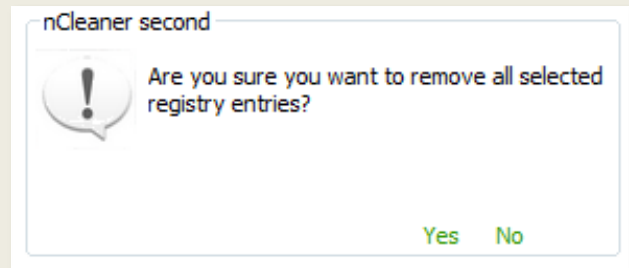
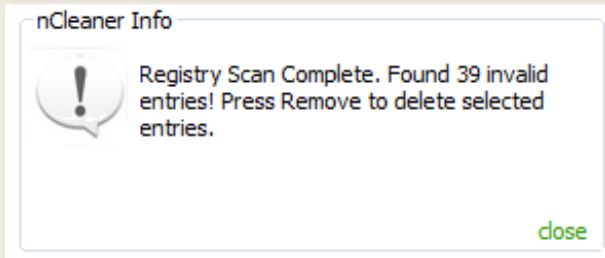
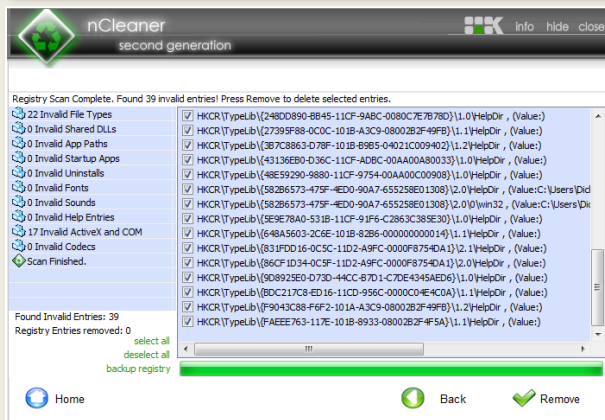
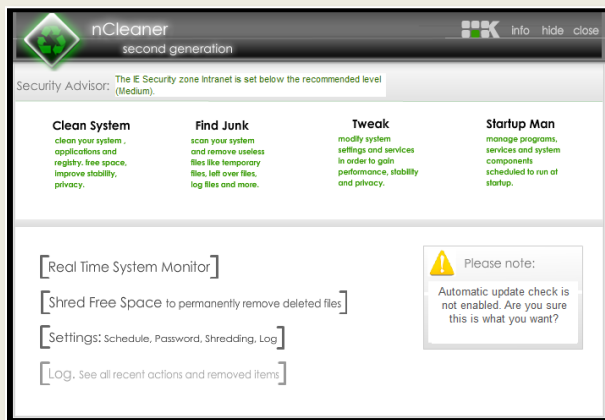
Glary Utilities

Another nice feature of this tool is under Files & Folders which will allow you to find duplicate files.



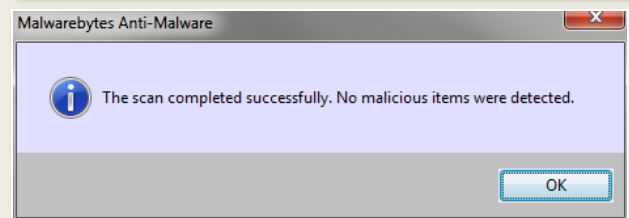
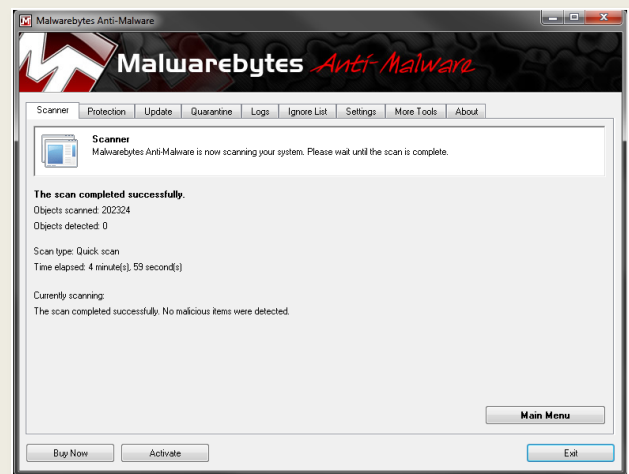
nCleaner

This utility has menus that are a little difficult to read, but works great.



Another good habit is to run a freeware utility like 'Malwarebytes' or 'Spybot – Search & Destroy' to check for malware and Trojans and other Ad Ware.

With all the junk being attached to E Mails, chances are one or two have slipped past any Firewall or Anti Virus software you may have running.



MS has a new version of Microsoft Security Essentials.

It was rumored that the original MS product was subpar, so they looked for another software product / company to buy.

They did, and this newer version is much improved. For the casual user it works just fine.

I have encountered some users running more than one firewall and or Anti Virus tool on their PC. While the intention is good, the PC performance is not.

Each tool imposes its own rules on new software and files, and can cause a huge performance hit. Find a good one, (free or otherwise) and stick with it.

A Note for the contester or DX loggers, just turn off all firewalls, and anti-virus software, as the only inbound data would be from a DX cluster.

This should only be done just before a contest, and remember to turn it back on when the contest is over.

If presented with an option to buy an upgraded version or feature, don't. The freeware one is just fine for most home / casual users. Read the install instructions carefully, as many are subsidized by some other tool they will try to install. If in doubt, decline the offers.

As always, EARS Club is not responsible for the Messing up of your computer by following any of these tips!

Opportunity Drawing Update

By Teri Bloom, W6TRB



We sold enough tickets at January's meeting for the drawing to take place.

The winning ticket was drawn by the evening's presenter - Fred Brown, and the winner of

the VX-7R handi-talki was none other than Ron Rosson, N6XT, who unfortunately was not present at the meeting.

As for the next prize offering – we are currently open to suggestions.

So, if there's anything you wish to see offered as a prize, please let me know!

One other thing, just remember that to purchase tickets for the opportunity drawing – **you must be a paid-up EARS member...**

SANDARC News

By Robert Kitson, KI6SBL



This April SANDARC will be holding an election for their officers.

I am writing this article to announce to my fellow EARS members that I plan to run for

SANDARC Chairman.

I need your support and input. Please show your support by volunteering to be an alternate or delegate for SANDARC.

If you're interested in volunteering, please contact John Musselman.

Please send me your input as to what you would like SANDARC to do in the future to help you, or others, in your HAM experience.

KI6SBL@earsclub.org

Thank you for your consideration.

73,

Robert J. Kitson, KI6SBL
EARS 2013 SANDARC Delegate

AMGEN Bike Race

Information provided by John McNelly, AF6UA

Save the Date: May 11-12, 2013

Escondido is hosting the starting leg of the AMGEN Tour of California bike race on May 12th, 2013:

<http://www.amgentourofcalifornia.com/Route/cities/escondido.html>

EARS is currently working with the Police Dept to fulfill their needs for ham volunteers. We will certainly need hams on race day (Sunday May 12), and "might" need hams for the day before (Saturday May 11).

If you're interested in providing radio communications support for the AMGEN race, let me know:

john@mcnelly.org

Escondido is also looking for volunteers to be course marshals (and for other race-related duties).

So if you're interested in one of those non-ham positions, see this URL for more info:

<http://www.escondido.org/amgen-volunteer.aspx>

The CERT Academy

By John McNelly, AF6UA



Sign Up For The CERT Academy

It's satisfying as a ham to be able to help those in need of emergency communications -- reporting a vehicle accident in a cell phone dead area, for example.

But what if you radio for assistance and the response comes back, we're overwhelmed right now, we'll get to you in a few days?

Picture yourself on your front lawn after the 'Big One', setting up your portable EMCOMM rig. A neighbor runs up to tell you that his son has been trapped by the quake.

You radio for help.

Last year, Escondido relied on mutual aid agreements 349 times to cover 9-1-1 calls (and we returned the favor to other cities 120 times).

Mutual aid agreements help to keep our taxes low. But it also means if there's a regional emergency (say, The Big One hits), it will be days or weeks before professional responders from far away can get here -- freeway travel may be difficult due to downed overpasses, and so on.

So, you put down your microphone and try to help rescue your neighbor's trapped son.

90% of the rescues done after an earthquake are done by non-professionals -- you, your family, and your neighbors.

Unfortunately 50% of the fatalities are would-be rescuers... i.e. you - just trying to help.

The Escondido Fire Dept offers a (free) Community

Emergency Response Team (CERT) Academy once a year, each March.

Your training will include the most likely risks for San Diego: earthquakes, wildfires, and terrorism, as well as standard modules such as disaster psychology and triage.

You'll learn how to do urban search and rescue safely, and how to move tons of concrete with just a pry bar and 2x4s.

Not only is the training free, you get the equipment you need to do the job safely.

There is no obligation to join CERT after your free training; the Fire Dept is just happy knowing you'll be better prepared to take care of yourself and your family.

Even if you don't want to be a member of CERT, taking the Academy makes you more valuable as a "spontaneous" ham volunteer: you'll become familiar with the Incident Command System (that's the "ICS" in "ICS 213", but so much more), which will help you speak the lingo with the agencies you serve as a non-CERT ham.

CERT loves hams, and a lot of EARS members are already in the CERT program -- you'll see a lot of familiar faces.

The next CERT Academy is March 5th through March 23rd on Tuesdays and Thursdays evenings (6-9 PM), with one Saturday class (graduation) on March 23rd.

RSVP to Randy Licata at rlicata@escondido.org to reserve your slot in the CERT Academy, and see this URL for more info:

<http://fire.escondido.org/cert.aspx>

John McNelly, AF6UA
Emergency Services Coordinator

International DX Convention

Information provided by Harry 'Hughes', W6YOO

DXers! Contesters! Don't miss our 64th annual International DX Convention April 19-20-21, 2013 in Visalia, California.

Now at a new, larger venue with more vendors, more presentations and more fun!



Enjoy DXpedition presentations, Technical sessions, over 60 Vendor exhibits, DX Academy, Contest Academy, Ladies Tour - Golf Tournament, Saturday Banquet,

There's over \$45,000 in raffle prizes - and meet DXers who travel from around the world to this premier DX event.

Early registration closes on April 10th. Register today, and see who else is coming at:

<http://www.dxconvention.org>

Please Join Us!



New Meeting Center!



More Everything!

- + Exhibit Space +
- + Banquet Space +
- + Meeting Rooms +
- + RV Parking +
- + Raffle Prizes +
- + Awards +
- + Fun Memories +

International DX Convention

April 19-21, 2013
Visalia, CA

Complete Program & Registration Information at:
dxconvention.org

64th Annual Meeting
Sponsored by the
Northern California DX Club

International DX Convention
April 19-21, 2013
Visalia, California



• 16 DX and Technical Presentations

• Contest Academy & DX Academy Workshops

• Keynote: Dr. Joe Taylor, K1JT, Nobel Laureate

• \$40,000 in Major Raffle Prizes

• Many Top Industry Exhibitors

• Special Event Station – N6V

• EZ Online Registration

• RV Parking

• Shuttle Bus Service

Website:
DXCONVENTION.ORG

Current EARS Membership

By Steve Venner, W6TAN



This past month, there were three new members joining:

Randall Smith, KK6AZI
Andre Hansen, K6AH
Zac Petersen, KJ6MLT

Welcome aboard!

Therefore the current EARS membership as of 14th of February, 2013 is:

- Life: 52
- Paid: 35
- Total: 87

Note that the above membership figures represent the EARS members who are either life members, or who have paid to the end of 2013 or beyond.

So for those of you who haven't yet paid their annual 'dues':

DO IT NOW – OR I'LL SEND TERI ROUND!

Members' Top Tip

Information provided by Rolf Dethlefsen, KC6HTR

J-Pole for Music:

San Diego has one FM Radio Station with classical music, XLNC1 on 104.9 MHz, and broadcasting from Baja, California. Unfortunately, the line of sight is blocked for me by a hill.

I tried among other antennas a Radio Shack FM beam antenna at a height of about 25 ft. Not good enough, too much noise.

Then it occurred to me to try the 2m J-pole, situated at about 35 ft. on top of my 10m beam.

Problem solved!

Even the 50/ 300 impedance mismatch between J-pole and FM receiver did not matter.

Hope this helps...

Rolf Dethlefsen
KC6HTR

EARS Elmer List

By Steve Venner, W6TAN



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

(Note new addition of Ron Pollack, K2RP)

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*

6. Ron Pollack, K2RP

- *Antique and tube equipment (boat anchors)*

Yuma Hamfest

Information provided by Marvin Munster, W6MJM



This is just a reminder that the 2013 ARRL Arizona State Convention will be held early in the year, in conjunction with the Yuma Hamfest on February 15-16, 2013 in Yuma, Arizona.

For those not familiar with the Yuma Hamfest, it is one of the largest hamfests held in the ARRL's SW Division, and

now in our ninth year, is the only multi-day convention-style Hamfest held in Arizona.

We feature vendors, tailgating, RV camping on site, seminars held in parallel tracks in two separate buildings, amateur license testing, DXCC card checking, the famous Buzzard BBQ dinner, an antenna clinic and transmitter hunt, a huge grand prize drawing, hourly door prizes, a hospitality area, the "Country Store" consignment sales area, and much more.

Our use of a fairgrounds venue allows us to control costs for both vendors and attendees. We feature \$5 admission, \$50 vendor spaces, and a \$10 catered dinner.

We anticipate similar marketing and attendance for 2013. Please check our website at www.yumahamfest.org for more information.

We have several new options for those staying in a motel, so check out that page on the website.

You can contact me by email at info@yumahamfest.org or by phone at 928-305-1034 if you have any questions.

If you have a seminar that you would like to present, please contact us about that as well.

Roger Hunt (K7MEX)
Director, Yuma Hamfest
2013 Arizona State Convention

Technical Challenge

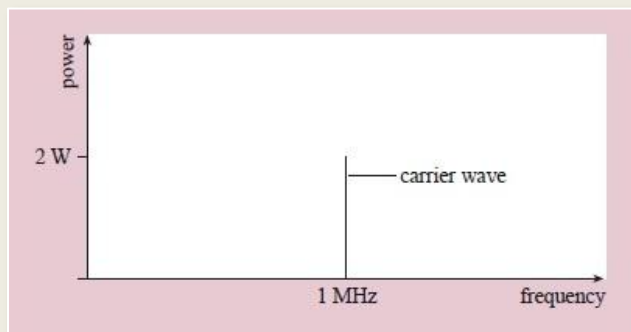
By Steve Venner, W6TAN



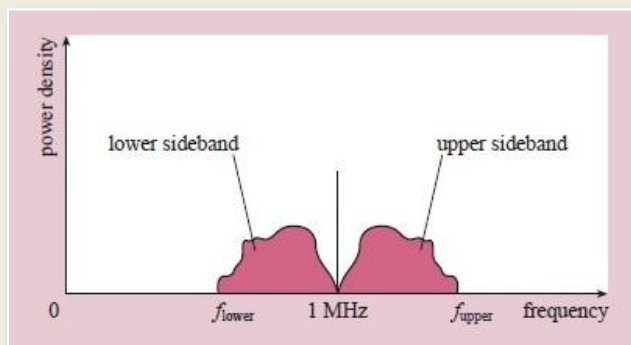
Last month's Technical Challenge was to do with spectral efficiency.

We said that an unmodulated sinusoid occupies a single frequency as shown in the

following figure:



If the unmodulated carrier shown above is amplitude modulated with speech or music, then it will have a wider frequency spectrum than when it is unmodulated:



In the above figure - you can see that there are now lobes on either side of the carrier frequency. These are called sidebands.

For normal quality analogue communications, a typical a.m. transmission will occupy about 6 KHz, and for your normal SSB QSO – this will occupy about 3 KHz. CW & data modes occupy even less.

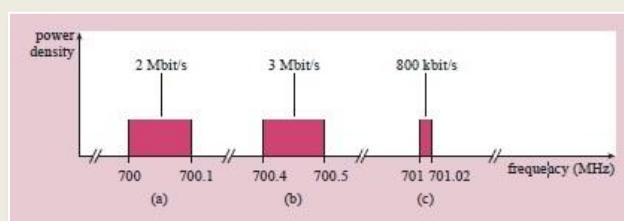
However, in this day-and-age of digital communications (for cell-phones for example) – high data rates are required for most phone applications.

Higher data rates can always be achieved by using more of the frequency spectrum, i.e. by having a wider bandwidth.

Unfortunately, this comes at a cost (both financially and otherwise). Spectral efficiency is therefore an important performance measure of how well a data transmission system uses the frequency spectrum.

Spectral efficiency is measured in bits per second per hertz.

The following figure shows a frequency axis with a series of frequency channels and some information relating to the data rate of a transmission in that particular channel:



Your challenge was to calculate the channels' spectral efficiencies.

The answers are as follows:

For (a) the bandwidth is (700.1-700) MHz=0.1 MHz
The data rate is given as 2 Mbit/s, so the spectral efficiency is:

$$2 \text{ Mbit/s} \div 0.1\text{MHz} = 20 \text{ Mbit/s/MHz} = 20 \text{ bit/s/Hz}$$

For (b) the bandwidth is (700.4-700.5) MHz=0.1 MHz

The data rate is given as 3 Mbit/s, so the spectral efficiency is:

$$3 \text{ Mbit/s} \div 0.1\text{MHz} = 30 \text{ Mbit/s/MHz} = 30 \text{ bit/s/Hz}$$

For (c) the bandwidth is (701-701.02) MHz = 0.2 MHz

The data rate is given as 800 kbit/s, so the spectral efficiency is:

$$0.8 \text{ Mbit/s} \div 0.2\text{MHz} = 4 \text{ Mbit/s/MHz} = 4 \text{ bit/s/Hz}$$

Therefore, the most spectrally efficient channel is (b)

I hope you enjoy that Technical Challenge... Another one next month!

General Information

EARS Club Officers for 2013:



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n6ep@arrrl.net



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mail4tucker@gmail.com



Secretary
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mike@hightower.com



Treasurer
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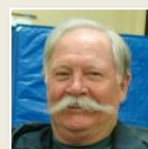
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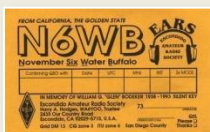


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About ALL EARS:



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

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

allears@earsclub.org

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Note: The deadline to submit material for the bulletin is by the 1st Thursday of the month.

Non-elective:



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Historian
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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.