



The Short Circuit

September Membership Meeting: Friday, September 18, 2014 7 pm
Break Room of the Los Angeles Maritime Museum, Berth 84, Foot of Sixth Street, San Pedro.
Enter on the North Side of the Museum (towards the Iowa).

Speaker: David Shoaf / KG6IRW

Title: Inside the Design: New Technologies from Elecraft

David will cover some of the latest technologies behind recent Elecraft product announcements. These include

- PX3 Fixed Tune Display
- P3 Watt meter/SWR and Transmit Waveform Display
- K3S – New technologies for even higher performance

Bio: David Shoaf/KG6IRW

With a background in engineering, David opted to build computer products for data centers for 30 years. David has worked in every facet of designing, building and running computing systems typically found in data centers today. He has served in product management, sales, standards committees, and in distribution management throughout his career. David retired from HP in 2005.

After a career in the computer industry, David came back to his roots in RF with Elecraft. David first received his First Class Radiotelephone license in 1978.

After the family grew up, David received his Extra Class ticket as KG6IRW in 2000. A former denizen of Silicon Valley, David has worked for Elecraft almost 3 years and lives in Capitola, California with his wife, Sharon, also a retired HP engineer. Sharon and David have 1 son and 2 grandsons.

August First Saturday Breakfast

Good eats and good times when members (some of them new) and guests gathered on Labor Day Weekend for the monthly Club Breakfast at the Think Café:

Bruce, AG6BJ, here showing us his Worked All States, W1AW award, also brought more and tell items...

Steve, K6NT had no extra news for the group.

Doug, W6HB is going back to the Cook Islands as E51DL in late September. Listen him...an upcoming possibility is to host 50 cub scouts for JOTA October 17th at the Maritime Museum. This is separate from scout activities on the Iowa and if it comes off, need some help. Stay tuned. Hamcon is this coming weekend, he probably has all the needs with the prizes; stay tuned on this one also.

Nick, N6EFI has been warm (hot) from the weather lately...and it looks like it is going to again.

Gary, N6HMR and Treva, N6HMS have been watching their granddaughter take her first steps. They report eating at the Chowder Barge in Wilmington and enjoying it.

Martin, N6UB and Mary, xyl, have recently returned from a road trip to the Northwest, in which they got close enough to smell the smoke from the fires...and this was after a long sojourn in Europe and Scandinavia (I smell a great meeting program...)

Tom, KJ6JPZ is working the "conquer the bridge" race on Labor Day, not as a walker, but as radio support; at which point Doug let us know that the Iowa would be starting the race by firing off a 5" gun. Tom also described the remodeling (house) saga, which devolved into an RFI discussion on solar panel inverters (do your homework before you install them) and RFI from odd sources (Grow lights and marijuana farms, etc.). It got very interesting.

Scotty, K6ZNL introduced our two new members: Roy, KK6VYV and Bruce, KG7MLX.

- Roy, KK6VYV who lives in San Pedro (neighbor of Scotty and Tom) is a retired landscape contractor and served in the signal corps. Not only is he a brand new ham, he is a brand new General class, interested in getting on the air and looking for all the help he can get...
- Bruce, KG7MXL divides his time between Carson and Arizona, has an IT background and came to us via Doug, W6HB and the Iowa.
- Both Roy and Bruce are interested in CW...Welcome, welcome, both of you.

Scotty also announced that she has volunteered to take over the Newsletter editing job for the coming year.

Don, NA6Z told us about the results of the survey he recently sent out by e-mail on the weekly Thursday night net. He was surprised that the 'not interested' category was as popular as 'can not hit the repeater'. Obviously we have some work to do...News Flash: Don declared his desire to run for another term as club director!

Bill, W6AJ has finally made it to college football season, starting tonight with a game at 8 pm (?). He will be turtle sitting in the near future.

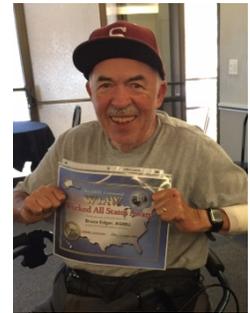
John, KC6JHV is one pint shy of his 21 gallon mark for blood donations. Great work! In his upcoming visit to Big Bear he will also be visiting the Wolf Mt. Sanctuary in the Lucerne Valley. He made contact last week at the station with an aeronautical mobile.

Homer, K6HKT noted that it is possible to see large swaths of marijuana farms from the air. (This related to the earlier Grow lights RFI issue). He detected this on his training flights from Grants Pass where he is learning to fly a "microlight" or trike.

David, W6KL reports 'nothing from Burbank this month'

Steve, K6NT won the certificate.

Reported by Scotty K6ZNL



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URAC's VE Corner ... Gary N6HMR

In August we administered several Amateur and Commercial exams. If you've been procrastinating, why not make September a "study month" and plan to upgrade in conjunction with the October *First Saturday of the Month Breakfast*. Let URAC's President Bill, W6AJ, or myself know of your interest and we'll ensure there's an exam team available for you.

Many thanks to our VEs and CEs for your participation. Without the volunteer help, these exams would not be possible. And our continued thanks to Marifrances for making the Brass Room available; a very quiet, comfortable environment for testing.

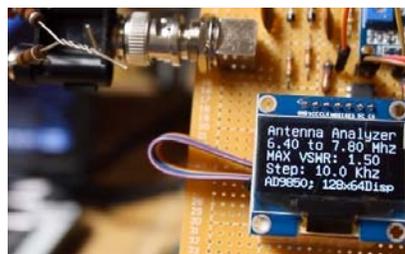
Antenna Analyzers You Can Hack Dan Romnanchik KB6NU

I'm a nut for antenna analyzers. I think that they are one of the most useful things a ham can own.

I've often wondered why there aren't more DIY antenna analyzer projects, though. Perhaps it's because designing measurement circuits isn't easy. An antenna analyzer has to have a signal source as well. Even so, an antenna analyzer doesn't need a whole lot of accuracy to be useful, so you would think that more builders/hackers would tackle a project like this.

I do know of one antenna analyzer kit on the market. The VK5JST Antenna Analyser Kit (<http://www.ahars.com.au/about/kits/>) costs about \$110 USD. I actually purchased this kit a year or so ago, and it looks like a great unit. The unit seems well-designed and comes with a plastic case, unlike many projects these days; but I haven't yet gotten around to building it.

I've also recently found out about an Arduino-based antenna (<http://hackaday.com/2015/08/06/40-antenna-analyzer-with-ad9850/>). It uses an AD9850 module as the signal source. The all the parts is about \$40, and you can experiment with the you have the time and inclination, this project might be worth (Photo from: <http://www.kb6nu.com/wp-content/uploads/2015/08/analyzer.jpg>)



analyzer project [arduino-and-](#) approximate cost for code, if you like. If taking a hack at.

Another antenna analyzer project from Australia is the VK3YY antenna analyzer (or "analyser" as they spell it there). It uses an Arduino Nano. The interesting thing about the blog post in which VK3YY describes the project (<https://vk3yy.wordpress.com/2014/09/29/antenna-analyser-project/>) is that you can follow his design and experimentation process.

Yet another analyzer ...

While I'm talking about antenna analyzers, let me mention another one that I've just found out about: the IW2NDH Antenna Analyzer (<http://www.iw2ndh.com/>). This antenna analyzer isn't a kit, but at \$175 seems to be a good deal. This unit has a frequency coverage of 2 – 160 MHz, and can be used as an antenna analyzer, signal generator, and a scalar network analyzer.

Apparently, this started out as an Arduino project. As Maximo, EA1DDO, pointed out on the radioartisan Yahoo Group, there is source code for this project on GitHub (<https://gist.github.com/jackdev23/7876502>), and a schematic is available on the Union de Radioaficionados Espanoles (URE) website (<http://www.ure.es/media/kunena/attachments/2420/Schematic.jpg>).

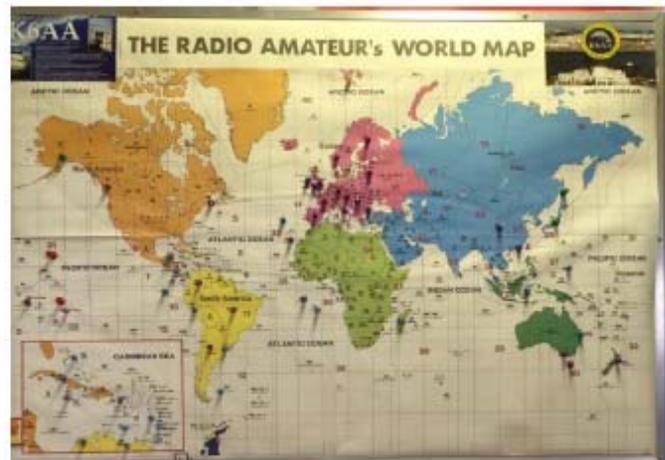
When not writing about antenna analyzers, Dan, KB6NU, actually builds an antenna now and then. You can often find him on the HF bands (mostly 40m and 30m), working CW. His #1-rated amateur radio blog can be found at KB6NU.Com, and you can e-mail questions, comments, or complaints to cwgeek@kb6nu.com

~ September 2015 ~						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3 K6AA weekly Net, 145.380; 8 pm	4	5 URAC First Saturday Breakfast, 8 am Think Café, San Pedro
6	7 Labor Day	8	9	10 K6AA weekly Net, 145.380; 8 pm	11 Patriot Day 9/11 HAMCON, Torrance Marriott	12 HAMCON, Torrance Marriott
13 HAMCON, Torrance Marriott	14	15	16	17 K6AA weekly Net, 145.380; 8 pm	18 URAC Monthly meeting, Los Angeles Maritime Museum, 7 pm	19
20	21 International Day of Peace	22	23 Fall Begins	24 K6AA weekly Net, 145.380; 8 pm	25	26
27	28	29	30			

~ October 2015 ~						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 World Vegetarian Day K6AA weekly Net, 145.380; 8 pm	2	3 5 URAC First Saturday Breakfast, 8 am Think Café, San Pedro
4	5	6	7	8 K6AA weekly Net, 145.380; 8 pm	9	10
11	12 Columbus Day	13	14	15 K6AA weekly Net, 145.380; 8 pm	16 URAC Monthly meeting, Los Angeles Maritime Museum, 7 pm	17 JOTA
18 Autumn Sea Faire, Cabrillo Marine Aquarium	19	20	21	22 K6AA weekly Net, 145.380; 8 pm	23	24 United Nations Day
25	26	27	28	29 K6AA weekly Net, 145.380; 8 pm	30	31 Halloween

K6AA Station Report: 2015 Second Quarter

In April, May, and June, 2015, Seven operators worked 175 hours and made 168 QSO's, including 39 DX contacts and 32 CW mode. The table below gives contacts by month and type and *does not include* additional contacts made on Museum Ship's Weekend or Field Day.



Month	# of QSOs	# of DX	#ofCW
April	96	23	10
May	66	15	18
June	6	1	4
Totals	168	39	32

Here's who we talked to in the Second Quarter:

Argentina, Asiatic Russia, Austria, Belgium, Brazil, Canada: Saskatchewan, Canada: Yukon Territory, Canary Islands, Cayman Islands, Chile, Cook Islands, Costa Rica, Czech Republic, Dominica, Dominican Republic, Hungary, Italy, Japan, Lithuania, The Netherlands, New Zealand, Panama, Peru, Puerto Rico, Portugal, Slovenia, Spain, Venezuela.

And remember, these great contacts were made by a small group of operators who educate the public about amateur radio in addition to having great fun on the air. Come be a part of the action. If you have not registered, get the paperwork from Doug or Scotty and start.

If you ARE registered, come see us about an orientation and a time slot for volunteering. If you can't make it every week, think about coming in one shift a month.



DX OPERATIONS FOR SEPTEMBER 2015

Per NG3K

Sable Is, CY0: Is now operating thru 9/23/2015. QSL via JE1LET.

Madeira, CT9: Is now operating thru 9/10/2015. QSL via DK1AX.

Bolivia, CP1XRM: Is now operating thru 9/15/2015. QSL via EA5RM.

Tanzania, 5H3DDX: Is now operating thru 9/28/2015. QSL via NK8O.

Samoa, 5W0RM: Is now operating thru 9/13/2015. QSL via ZL4IG.

French Polynesia, F0: Is now operating thru 10/1/2015. QSL via DF1YP.

Azores, CR1IZ: Is now operating thru 9/15/2015. QSL via KI1U.

Aruba, P40: Is now operating thru 9/20/2015. QSL via N5ET.

Azores, CU4DX & CU7CRA: Will be operating from 9/11 thru 9/14/2015. QSL via KI1U.

Jersey, MJ: Will be operating from 9/11 thru 9/14/2015. QSL via DL2JRM.

Palau, T88KH: Will be operating from 9/12 thru 9/16/2015. QSL via BM2JCC.

Bermuda, VP9: Will be operating from 9/12 thru 9/19/2015. QSL via K2SE.

Tanzania, 5H3MB: Will be operating from 9/13 thru 10/18/2015. QSL via IK2GZU.

Bahamas, C6ANT: Will be operating from 9/13 thru 9/20/2015. QSL via VE3EY.

Comoros, D67GIA: Will be operating from 9/14 thru 9/23/2015. QSL via LA7GIA.

Mariana Is, KH0: Will be operating from 9/15 thru 9/17/2015. QSL via JH0CKF.

Iceland, TF: Will be operating from 9/15 thru 9/22/2015. QSL via DL2VFR.

Niue, E6GG: Will be operating from 9/15 thru 9/29/2015. QSL via G3BHJ.

Svalbard, JW: Will be operating from 9/16 thru 9/23/2015. QSL via OX5M.

Zimbabwe, Z21MG: Will be operating from 9/18 thru 9/30/2015. QSL via OK1FCJ.

Cocos Keeling, VK9C: Will be operating from 9/19 thru 9/25/2015. QSL via JA0JHQ.

Palau, T88QB: Will be operating from 9/20 thru 9/22/2015. QSL via JK2SQB.

So Cook Is, E51DL: Will be operating from 9/21 thru 10/3/2015. QSL via W6HB.

Lord Howe Is, ? : Will be operating from 9/22 thru 9/29/2015. QSL via NI1L.

Fiji, 3D2YA: Will be operating from 9/23 thru 9/28/2015. QSL via JA1NLX.

Guam, KH2: Will be operating from 9/24 thru 9/28/2015. QSL via JR1EFG.

Marshall Is, V73: Will be operating from 9/24 thru 9/28/2015. QSL via JH3QFL.

Tuvalu, T2GC: Will be operating from 9/24 thru 10/14/2015.. QSL via LZ1GC.

Vietnam, XV2VTC: Will be operating from 9/24 thru 9/30/2015. QSL via VK6LC.

Luxembourg, LX: Will be operating from 9/26 thru 10/3/2015. QSL via PE2J.

North Cook Is, E51MQT: Will be operating from 9/27 thru 10/29/2015. QSL via N7QT.

Micronesia, V63WJ: Will be operating from 9/28 thru 10/4/2015. QSL via JS3LSQ.

North Cook Is, E51MKW: Will be operating from 9/29 thru 10/27/2015. QSL via KZ1W.

Mariana Is, NH0: Will be operating from 9/30 thru 10/16/2015. QSL via DL2AH.

<i>2015 U.R.A.C. Executive Board</i>			
PRESIDENT Bill Carter W6AJ		VICE-PRESIDENT Unfilled	
SECRETARY Tom Butler KJ6JPZ		TREASURER Scotty Butler K6ZNL	
DIRECTOR Richard Requa KB6FLF		DIRECTOR Homer Meek K6HKT	
DIRECTOR John Rockwood WA6SDK		DIRECTOR Don Putnick NA6Z	
		Past President Jim Jerzycke KQ6EA	

Contact List
For 2015

President

Bill Carter, W6AJ
310-503-6989
w6aj@arrl.net

Secretary

Tom Butler
310-833-2656
kj6jpz

Treasurer

Scotty Butler, K6ZNL
310-833-2656
k6znl@arrl.net

Vice President

unfilled

Newsletter Team

Dorothy Jerzycke, KJ6JOQ
Jim Jerzycke, KQ6EA
(562)-422-0024
dorothy0657@verizon.net
kq6ea@verizon.net

Webmaster

Duane Cassone, W6ADC.

***** IMPORTANT NOTES *****

K6AA Station We can still use more operators for our K6AA station. See Doug, W6HB, and or Scotty, K6ZNL, checkout and training.

Check out the special events page on the website for the latest from arrl and e-ham net:

<http://www.k6aa.org/specialevents.html>

Additional Calendar Notes**Club Net**

Held weekly on Thursdays at 8pm

Primary = WA6LA repeater

(145.380; -600; PL 100)

If the repeater is unavailable, our Net will use the repeater output (145.38) on simplex.

Club Meeting

Held monthly on 3rd Friday of the month (except August and December)

No Host Breakfast

Held monthly on the 1st Saturday of the month at 8:00am. Location: Think Café on 5th Street in San Pedro

“VE/CE Session for Amateur and Commercial Licenses

Monthly on 1st Saturday and 3rd Sunday. **By appointment.** Go to <http://k6aa.org/index.php/menu-licenseexams>”



United Radio Amateur Club
 Newsletter Editor
 Los Angeles Maritime Museum
 Berth 84, Foot of Sixth Street
 San Pedro CA 90731
 33° 44' 20" N 118° 16' 39" W

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ADDRESS CORRECTION
 REQUESTED