

This is a 501c3 club, so your donations are tax deductible.

This club is also an Arizona Non-Profit Corporation.

OVARC Newsletter Editor: Ron Herring W7HD

Monthly club meeting location is at Ascension Lutheran Church

1220 W Magee Road Tucson, AZ 85704

(just east of LaCanada on Magee)

Meetings are held the third Friday of each month at 7:00 pm except in December. Elections are held in the January meeting.



Facebook:
https://www.facebook.com/ovalleyarc?ref=tn_tnmn

Website: <http://tucsonhamradio.org>

How to contact us:

- <http://tucsonhamradio.org/contact-us>
-

The May OVARC meeting will be moved to May 24, 2019 to accommodate many Hamfest attendees in Dayton/Xenia.

cross-reference

<http://tucsonhamradio.org/ovarc-repeaters>

Note that the repeater information is now a link to the OVARC website. That is avoid the possibility of incorrect information, since Tom W7TRA will maintain that list on the website.

TIPS, TRICKS AND LINKS

K4 High-Performance Direct Sampling SDR

FROM ARRL-AZ MAY 2019 NEWSLETTER

ARRL Field Day Site Locator is Live

HAMLIB 3.3 installation notes

CROSSWORD PUZZLE

HEADLINES FROM CQ NEWSROOM

FOR SALE

EDITORS PAGE

2019 OVARC Board of Directors

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Steven Wood - W1SR - President

The **May meeting** will be moved to May 24, 2019 to accommodate those going to the Dayton Hamvention which begins on May 17. (It's not too late to buy a ticket and get a hotel room)

Several more donations have been received. If you would like to "polish up" an older radio so that we can sell it, let me know as I have several that need some TLC.

Of course we can never have enough donations for our annual Hamfest. So save up your items for our November 9, 2019 event. It will be here just the other side of the hot summer.

Solutions to all of your ham radio problems are close-by; just bring them to The Views on Saturday morning.

There is a new Calendar that is accessed from the OVARC main web page.
<http://localendar.com/public/OVARC>



- **OVARC email contacts:**

For general information about OVARC	info@tucsonhamradio.org
For licensing and VE questions	licensing@tucsonhamradio.org
For help setting up your station or other operating questions	elmer@tucsonhamradio.org
For suggestions on club programs, etc.	suggestions@tucsonhamradio.org
For membership questions	membership@tucsonhamradio.org
For assistance with public service events or to help out at public service events	public_service@tucsonhamradio.org
For Field Day information	field_day@tucsonhamradio.org
For website suggestions or comments	webmaster@tucsonhamradio.org
For Sunday night net questions	Net_manager@tucsonhamradio.org
For hamfest informations	hamfest@tucsonhamradio.org
For newsletter submissions or comments	newsletter@tucsonhamradio.org
Have events added to the OVARC Calendar	Calendar@tucsonhamradio.org

Please note that we removed the email addresses listed in the newsletter due to a phishing attempt. So please use the ones from the links above.

TIPS, TRICKS AND LINKS

How to Scan QR Codes on an Android Phone

DIY Mini UPS for WiFi Router / Modem

<http://www.wm7d.net/hamradio/solar/k7ra.shtml> Tad Cook K7RA weekly report via WM7D site

<https://km4sqz.blogspot.com/2017/10/yaesu-ftm-100dr-programming-it-via.html>

<http://www.lukemacneil.com/programming-script-for-ftm100dr-and-ftm400dr/>

[K9EQ-Fusion-PDF-0003.0.0_Tips_and_Tricks.pdf](#)

I had several members ask about the hash filter I described in the April meeting Handyman Corner. Cost me \$16.39 on Amazon:



AC 115/250V 20A CW4L2-20A-S
Noise Suppressor Power EMI
Filter

by DCS
★★★★★ 1 customer review

Price: \$16.39 ✓prime

Thank you for being a Prime member. Get \$70 off instantly. Pay \$0.00 upon approval for the Amazon Prime Rewards Visa Card. No annual fee.

- Product Name: AC Power Line EMI Filter
- External Material: Metal; Color: Silver Tone, Black; Net Weight: 176g
- Model No: CW4L2-20A-S; Working Voltage: AC 115/250V, 50/60Hz; Rated Current: 20A
- Installing Hole Size(Approx) Distance: 7.5cm / 3"; Diameter: 5mm/0.2"; Size(Approx): 6 x 5.5 x 3cm / 2.4" x 2.2" x 1.2"(L* W*H)
- Package Content : 1 x AC Power Line EMI Filter

New (1) from \$16.39 ✓prime

This was to eliminate a problem with an extension cord plugged into a generator radiating RFI.

For safety sake, YOU MUST PUT IT IN AN ENCLOSURE! There is 120 VAC on the terminals so you have to box it up so fingers can't touch!

73 de W8TK Your Handyman

K4 High-Performance Direct Sampling SDR

Pre-Order Information

We're pleased to announce our new top of the line transceiver, the Elecraft K4. It combines the latest in direct-sampling technology with classic controls and an upgradeable, modular architecture. <https://elecraft.com/pages/k4-pre-order>

We think you'll find the K4 to be the advanced radio you've been waiting for...powerful and easy to use, backed by an engineering team that loves to get on the air.

73,

Wayne, N6KR

Eric, WA6HHQ



FROM ARRL-AZ MAY 2019 NEWSLETTER

ARRL-Arizona State Convention - The ARRL Arizona State Convention and Prescott Hamfest will be held at the Embry-Riddle Aeronautical University in Prescott on 31 May and 1 June. This is always a premiere event with lots of prizes, booths, presentations, and beautiful facilities. ARRL-AZ will have our booth setup inside and we will have a ceremony on Saturday Morning celebrating the enactment of the Distracted Driving law as well as the State Commendation from the governor's office. This year the newly refurbished food court will be available and many great prizes as well. Visit the convention website at www.prescotthamfest.com

White Mountain Hamfest - Many were disappointed when we saw the notices that the White Mountain Hamfest was being canceled for this summer. This is always a favorite trip for many of us and a good excuse to escape the desert heat in the middle of July. The Kachina club has had a hard time recruiting volunteers again this year and did not think they could manage to assure that the hamfest would be of the quality they want to provide. ARRL-AZ has been working with several individuals, as well as the Rim-Country ARC, to see if we can provide support and assure the Kachina club that sufficient support will be provided. We want this activity to succeed and we are working to have the hamfest this year. Stay tuned to this frequency, we hope for good news soon.

ARRL Field Day - Don't forget that Field Day is almost here. The weekend of June 22 and 23 is the time when we all practice our ability to communicate from remote locations, using hardware and facilities that simulate real emergency conditions. That doesn't mean we don't have fun and Field Day is a great time to brush up on friendships and techniques at the same time. Like last year, the Section Manager will be conducting a tour of Field Day sites across the state. Last Year we crossed the northern part of Arizona. This year, we will visit sites along the southern route, starting in the east and working towards Yuma in the west. Be sure to log your Field Day site on the ARRL web page so we (and everyone else) can be aware of your operations, location, and amenities. Go to <http://www.arrl.org/field-day-locator> to register your site.

ARRL Field Day 2019 - Field Day is always the fourth full weekend of June, beginning at 1800 UTC (11:00am AZ) Saturday, June 22nd, and running through 2059 UTC (1:59pm AZ) Sunday, June 23rd. The Field Day website already has updated content for 2019, and more is planned. While there are no substantial changes from prior years, some website text has been updated and clarified. With appropriate software versions and proper setup, the Field Day exchange can now occur using FT8. Make sure the software you are using (e.g. WSJT-X) can support the Field Day exchange, and is set up to do so. <http://www.arrl.org/field-day>

ARRL and FCC Initiate the Volunteer Monitoring Program - ARRL and the FCC have signed a Memorandum of Understanding (MOU) that paves the way to implement the new and enhanced Volunteer Monitor program. The memorandum establishes the Volunteer Monitors as a replacement for the Official Observers (OO) program. Current OOs have been encouraged to

participate in the new program. "We are excited by the opportunity to codify our partnership with the FCC and to work together to achieve our mutual interests of protecting the integrity of our Amateur Radio bands," said ARRL President Rick Roderick, K5UR. "This Memorandum of Understanding will serve as the foundation for a new level of partnership on this very important issue." ARRL has contracted with retired FCC special counsel and former Atlantic Division Vice Director Riley Hollingsworth, K4ZDH, to oversee the ARRL's role in the development and implementation of the Volunteer Monitor program. The ARRL invites applications for Volunteer Monitor positions:

<http://www.arrl.org/news/arrl-invites-applications-for-volunteer-monitor-positions>

Arizona Amateur Radio Month - June 2019

Governor Ducey declares June 2019 as AMATEUR RADIO MONTH IN ARIZONA

The Governor has again issued a proclamation declaring the month of June as "Amateur Radio Month" on Arizona. The recognition by the head of the state government acknowledges our efforts and success we attain across all of Arizona. We can be proud of the efforts each of you make and we applaud the recognition that Amateur Radio receives. Help us celebrate by sending your planned activities and any photos to w7rap@arrl.org so we can highlight what hams are doing each month.

Distracted Driving Legislation Is Enacted - The Arizona Legislature passed HB2318 on 15 April and Governor Ducey signed it into law on 22 April. The law includes specific exemptions for "Federally Licensed Operators" (That's US), and is designated to override municipal laws throughout the state. We applaud the hard work of our State Legislative Liaisons, Virgil Silhanek (K7VZ), and Tom Bosa (NE7X) , as well as the support of the Regulatory and Counseling staff at ARRL Headquarters, (under Dan Henderson, N1ND) for constantly reviewing each version of the bills to assure our rights were assured. We will be celebrating the success at a special event party on Saturday June 1st, at the ARRL State Convention In Prescott.

Arizona bill SB2318, Texting While Driving; Prohibition; Enforcement, was passed by the House and Senate and has been signed by Governor Ducey. Several bills addressing texting while driving were introduced this session, motivated most recently by the tragic death of Salt River Officer Clayton Townsend on January 8th by a man who crossed several lanes of traffic as he was texting. Read the entire text of HB2318 at this link: <https://apps.azleg.gov/BillStatus/GetDocumentPdf/470638>

Page 3, lines 18-20

C. THIS SECTION DOES NOT APPLY TO:

2. AN OPERATOR WHO IS LICENSED BY THE FEDERAL COMMUNICATIONS COMMISSION WHILE OPERATING A RADIO FREQUENCY DEVICE OTHER THAN A PORTABLE WIRELESS COMMUNICATION DEVICE.

Page 4, lines 32-36

I. FOR THE PURPOSES OF THIS SECTION:

1. "PORTABLE WIRELESS COMMUNICATION DEVICE":

(b) DOES NOT INCLUDE A RADIO, CITIZENS BAND RADIO, CITIZENS BAND RADIO

HYBRID, COMMERCIAL TWO-WAY RADIO COMMUNICATION DEVICE OR ITS FUNCTIONAL EQUIVALENT, SUBSCRIPTION-BASED EMERGENCY COMMUNICATION DEVICE, PRESCRIBED MEDICAL DEVICE, AMATEUR OR HAM RADIO DEVICE OR IN-VEHICLE SECURITY, NAVIGATION OR REMOTE DIAGNOSTICS SYSTEM.

ARRL Field Day Site Locator is Live, Promotional Material and FD Gear Now Available

Amateur Radio's most popular operating event, [ARRL Field Day](#) is June 22 - 23. See the May issue of *QST*, page 85, for the official Field Day announcement. The complete 2019 [ARRL Field Day](#) packet is online.



The [Field Day site locator](#) is now up and running, and by mid-week, 475 sites already were in the database. To find a Field Day site near you, enter your town and state in the "Location or Call Sign" box at the upper left. Listings also are available by state or Canadian province. To add a site, visit the [Add Field Day Station](#) page. [Information](#) on promoting Field Day is available. Also, [visit](#) the Field Day social media page for information on promoting your Field Day operation via Facebook, Twitter, Instagram, LinkedIn, and YouTube.

The ARRL Public Relations Committee will host a series of live video/audio conference calls every Thursday starting on

May 9 to help ARRL PIOs with their Field Day publicity efforts. Field Day public service announcements (PSAs) are set to be posted to the ARRL Field Day web page this week.

Official FD 2019 Gear!

Official Field Day gear and supplies available from ARRL including pocket [T-shirts](#), [hats](#), [pins](#), [patches](#), [stickers](#), and coffee [mugs](#) are a great way to acknowledge -- and commemorate -- your participation in this most popular on-the-air operating event in Amateur Radio.

Encourage club members, family, friends, and prospective hams to take part using ARRL Field Day with recruitment [posters](#) and attractive "Get on the Air" (GOTA) [pins](#) for those newcomers.

ARRL's new [Radio Communications](#) vinyl banner is perfect for showing off Amateur Radio at ARRL Field Day, any public exhibit or recruitment display. It's good for indoor and outdoor use and reusable for years to come.

Clubs are encouraged to order early. Place a group order and pay just \$12.50 shipping for all orders over \$50 (while supplies last). Get your 2019 ARRL Field Day supplies from



the ARRL [online store](#) or by calling (888) 277-5289 in the US, Monday through Friday, from 8 AM to 5 PM Eastern Time. Outside the US, call (860) 594-0355.

The complete 2019 [ARRL Field Day](#) packet is online. ARRL encourages participants to register their Field Day operations using the [FD Site Locator](#).

From Amateur Radio Weekly Newsletter May 4, 2019

Go Ahead and Call CQ on 2m FM

The conventional wisdom in amateur radio is that we should not call CQ when using FM on the VHF and UHF bands, especially on repeaters. The reasoning for this is that during normal VHF/UHF FM operating, radio amateurs are tuned to a specific frequency and will easily hear a call on FM. Compare this to ... [Continue reading Go Ahead and Call CQ on 2m FM →](#)

HAMLIB 3.3 installation notes

Ron W7HD

To compile and install hamlib 3.3 under Linux Mint

this export MUST be in place first.

```
export LD_LIBRARY_PATH="$LD_LIBRARY_PATH:/usr/local/lib"
```

Then go ahead as normal.

```
./configure
```

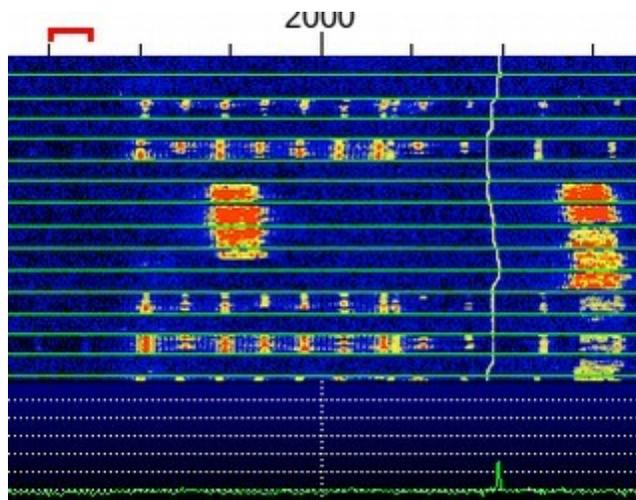
```
make
```

```
sudo make install
```

Now rigctl will work properly.

Note that for the FT-857 with Rigblaster Plug-n-play you also need to set DTR low and RTS low for WSJT-X and JS8CALL. Otherwise, you will get an error that it cannot switch VFOs.

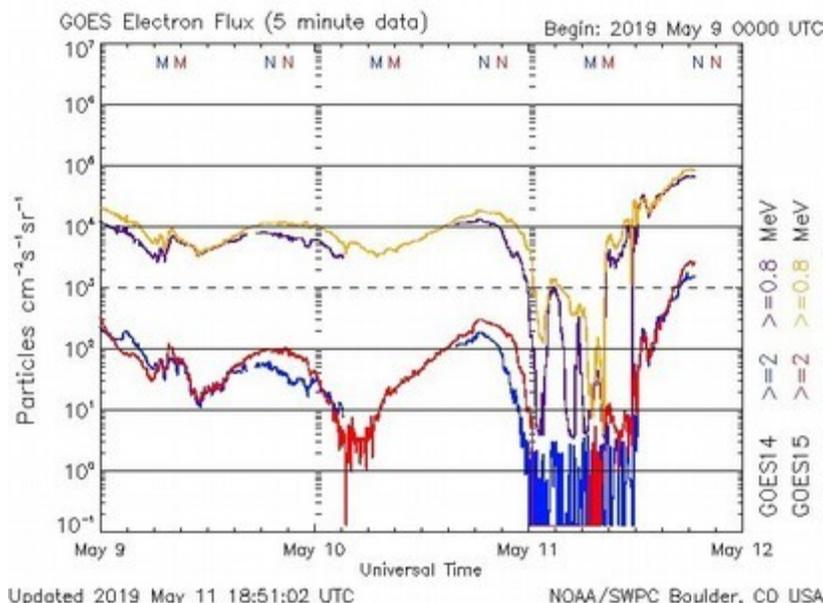
This is what an over-the-horizon radar signal looks like on 17M in FLDIGI.



Typical FT8 activity on 30M in the evening. I would call this wall-to-wall signals.

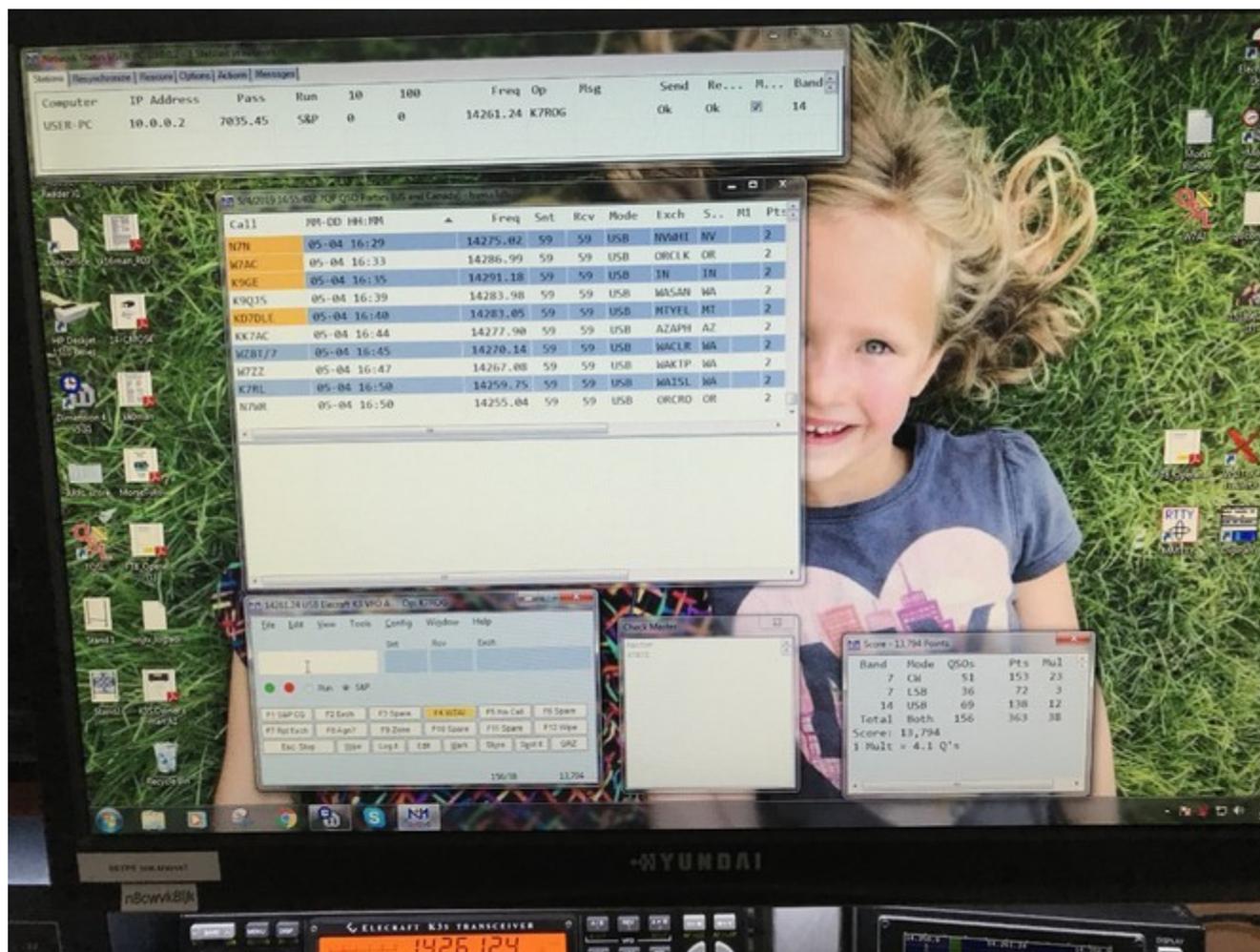


This CME caused major upsets on the ham bands. 30M died totally for a short while on Saturday, as well as everything else above 10 MHz. The first part arrived early on UTC May 10th, with the big upset arriving at the end of the day.



7th area QSO Party





And the summary page! Wow - 13,794 points with 156 QSOs.

CROSSWORD PUZZLE

by Chris Codella, W2PA

8/14/2008

Alphas and IOTAs

Across

- 1. Swiped
- 6. GM OM
- 10. Tuvalu IOTA
- 14. KH6 IOTA
- 15. It's partner (to a programmer)
- 16. Get one's ducks in ____
- 17. ____nito
- 18. Stage part
- 19. Poor QTH, say
- 20. Foot covered?
- 22. Means justifiers
- 23. Amplifier knob
- 24. Softrocks, e.g.
- 26. Murphy, e.g.?
- 30. OA denizens, once
- 33. Mother ____
- 34. W4 Beach
- 36. Xmtr pwr plus all following dBs
- 37. 3B6 IOTA
- 39. 6Y IOTA

- 41. Where you might get a 5-down - or maybe five, 5-down's down
- 42. November honorees
- 44. Multiple Elvises?
- 45. F capital bisector
- 47. Carefully did 23-across, with the big knob probably.
- 49. CW
- 51. Hero
- 52. They're turned on by a positive base
- 54. Two cartons of ice cream?
- 60. Kind of IC
- 61. Word often found in IOTA names
- 62. Possible Northern UK prefix

- 63. IRE descendent, in 1963
- 64. Zig or zag
- 65. Where the HV goes
- 66. Western DL river
- 67. Blunders
- 68. Church assembly

Down

- 1. Narrow opening
- 2. Trig function
- 3. How many times a grid can be grossly overdriven
- 4. XW land
- 5. Brewski, to a ham?
- 6. Pacific
- 7. Zoomed in
- 8. LA city
- 9. The 18 and 21 MHz bands?

1	2	3	4	5	6	7	8	9	10	11	12	13	
14					15				16				
17					18				19				
20				21					22				
				23				24	25				
	26	27	28					29	30		31	32	
33						34		35		36			
37						38		39		40			
41				42				43		44			
45			46			47		48					
		49			50		51						
52	53				54	55				56	57	58	59
60					61				62				
63					64				65				
66					67				68				

- 10. See 41-across
- 11. What a K2 can do
- 12. Harry Chapin's callsign?
- 13. Is in the red
- 21. Power problem
- 25. Result of key down amplifier, possibly
- 26. Smooth transition
- 27. Borders both VU and A4
- 28. RTTY char
- 29. G rule in VU
- 31. (The amp.) made an untoward noise
- 32. Hot Springs and others
- 33. Manipulates a key
- 35. Small pet
- 38. Opposite of amp.

- 40. Worked ____ Continents
- 43. Drinker
- 46. More meddlesome
- 48. Types of gears
- 50. North Cook IOTA prefix
- 52. Cloud burner sig.
- 53. "Guilty," e.g.
- 55. ____-friendly
- 56. Easter flower
- 57. Possibly needed to purchase an IC-7800
- 58. Not taken in by
- 59. The last one for DXCC #1, say

SOLUTION TO LAST MONTHS PUZZLE

E	R	N	S		N	A	S	H		O	R	A	L	S
N	O	A	H		O	T	T	O		R	E	C	U	R
N	O	N	O		T	H	U	S		A	L	I	B	I
	F	O	R	T	Y	O	V	E	R	N	I	N	E	
			T	E	E	S			A	G	C			
A	C	O	R	N	S		N	O	S	E		S	P	Y
R	A	P	I	D		T	E	N	T		K	N	E	E
C	W	A	B	B	R	E	V	I	A	T	I	O	N	S
E	E	L	S		A	N	I	T		O	L	O	N	E
D	D	S		S	M	D	S		A	N	O	D	E	S
			E	W	A				S	T	E	M		
		S	E	V	E	N	T	Y	T	H	R	E	E	S
G	I	B	E	D		R	O	A	R		T	R	A	P
U	N	O	N	E		O	G	L	E		E	G	G	S
D	E	N	T	S		N	I	L	E		R	O	S	E

Hopefully this isn't too "sexist". At least it is a fun pun.



HEADLINES FROM CQ NEWSROOM

Honda Recalls Several Portable Generator Models - Models EU2200i, EU2200i Companion and EB2200i portable generators may pose fire and burn hazards

Hamvention® and ARRL Introduce Dayton Mobile App - Exhibitor directories, maps, schedules and prize numbers to be included, plus ability to share profile info with other attendees

[Click here to visit the Hamvention® website!](#)

ARRL to FCC: Ignore the QRM on Tech Enhancement - Reply comments on license privilege proposal urge FCC to focus on basics of League request

ARRL and FCC Move Forward on Volunteer Monitor Program - Memorandum of Understanding provides basis for new program to replace Official Observer and Amateur Auxiliary programs

Antenna Agreement Reached Between Arizona Hams and Homeowners' Association - Sun City Grand community agrees to permit certain types of outdoor antennas for the 75 hams in the 10,000 home development

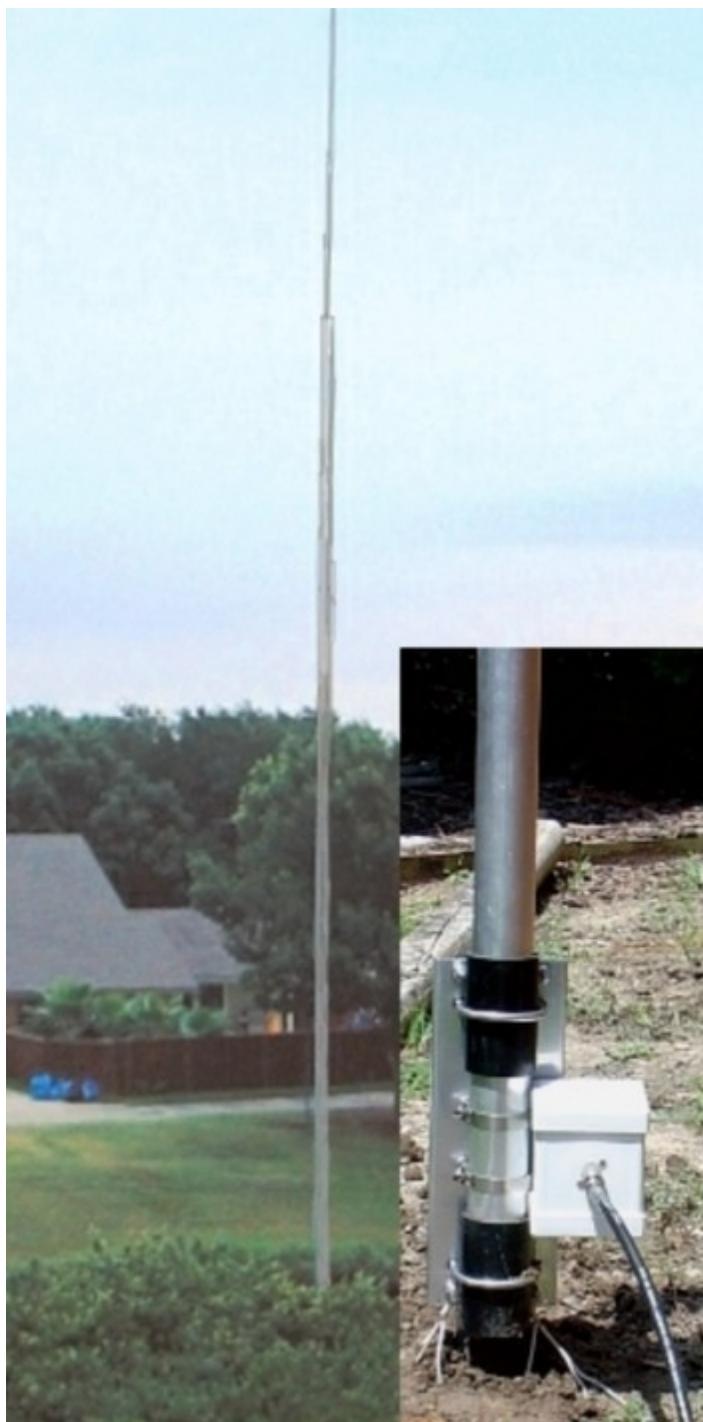
New Distracted Driving Laws in Two States Exempt Hams - Arizona and Minnesota ban drivers from using handheld electronics but exempt ham and CB radios

FOR SALE

**160-6M VERT.ANT.,
43FT, 1500W,
W/BALUN/MOUNT -
\$110.00 (Catalina, AZ)**

MFJ-2990 - 43FT VERTICAL ANTENNA WITH MOUNTED BALUN AND MFJ-1903 - UNIVERSAL TILT BASE FOR VERTICAL ANTENNAS. BOUGHT NEW, WORKED WELL, PIECES MARKED FOR 43 FOOT LENGTH AND ALL CLAMPS IN PLACE. IT WAS MY ANTENNA BEFORE I MOVED. PRICE NEW \$440.00.

AZRIEL GORSKI, W7SI, go.azriel@gmail.com





SDR RADIOS AT UNBELIEVABLE PRICES

[Visit our website](#)

For the next two weeks, Connect Systems is proud to offer the Xiegu G1M HF SDR 5 Watt radio that normally sells for \$299 now for only \$249 and the Xiegu G90 HF SDR 20 Watt radio with integral Automatic Antenna Tuner that normally sells for \$499 now for only \$399.

In case you are not familiar with Connect Systems, we have been in the radio business since 1982 selling phone patches, repeater controllers and radios. We are the go-to company if you want DMR radios and we are willing to sell these two radios at about our cost to get a name in the HF market.

Because we design some of our products we sell, we also have the capability to test and fix all the products we sell. Compare that to the competitors who must send the radios back to China if there is a problem. Unlike some of our competitors, we ship from the United States so if there are any issues, you do not have to ship back to Hong Kong or China.

If you are interested in the G1M or G90, please follow the links below. We include manuals and links to YouTube videos. If you would like to buy the radio just press the “Buy Now” link and you will be transferred to our store. If the radio is not in stock, you will automatically be transferred to the page to reserve the radio. For only \$1, you can reserve this radio for our next shipment. The \$1 is fully refundable if you later decide not to buy the radio.

Please pass this e-mail to the other members of your club if you think they might be interested as I only have the e-mail of the primary contact from your club.

[Link to G90](#)
[Buy G90 Now](#)

[Link To G1M](#)
[Buy G1M Now](#)

Company Name | Phone | Address | Website

Connect Systems Inc. | 5321 Derry Ave., Suite B, Agoura Hills, CA 91301 www.connectsystems.com

EDITORS PAGE

Deadlines for 2019 submissions are on the Monday preceding club meeting

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Feel free to email me at newsletter@tucsonhamradio.org

Please note that all articles submitted may be edited for spelling and grammar mistakes. My document program does automatic spell checking (LibreOffice Writer). DOC, RTF, PDF, ODT, TXT are all acceptable. If pictures are included, having them in separate files as JPG or PNG formats is best. I can place captions under the pictures if needed.

Note that the repeater information is now a link to the OVARC website.

Now that the commerce.com websites are being updated again, I have expanded the [propagation page](#) on my [website](#) to include several new links for more info.

May your noise be low, signals high, and your waterfall never dry up :-)



Ron Herring W7HD

Newsletter Editor, Past Vice-President

Serving Pima County and Southeast Arizona,

now distributed worldwide