

# WATTS NEWS



**The Best of Amateur Radio**

## OARC e-Magazine

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

**AUGUST 2021**

Next Club Meeting/Activity/Event

**Steak Fry/Elections/Auction**



**Dave Mamanakis KD7GR**  
President



**Justin Hall KB7LAK**  
Vice President



**Barbara Siddle KB7FWW**  
Secretary



**J. Siddle KG7CJN**  
Treasurer



**Mike Wilde KJ7HEX**  
Program Director

**Vacant**  
Activity Director



**Val Campbell K7HCP**  
Webmaster/NL Editor

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**PREVIOUS CLUB MEETING/ACTIVITY**

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**OARC**

**July Event/Activity**

**OARC "T"-HUNT**

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**NEXT CLUB MEETING/ACTIVITY**

**OARC**

**August Activity/Event**

**OARC**

**Steak Fry**

**Elections/Auction**

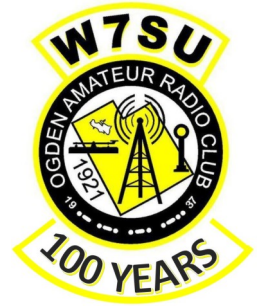
**Keep clicking...**



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## OARC COMING EVENTS

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ARRL Field Day - June  
OARC "T"-Hunt - July

**OARC Steak Fry - August**  
**Joint Swap Meet - September**

**Christmas Family Dinner Party**  
**- December**

### **Next Tech License Classes**

Each Wednesday in September

### **Next VE Test Session**

1st Wednesday 06 October 2021 @ 6:00 PM

**A MESSAGE FROM OUR PRESIDENT**

## Dave's Rag Chew



**Dave Mamanakis KD7GR**

GREETINGS!

Welcome to August! Home of the Steak Fry and Club Elections!

I hope, if you have considered a club position, President, Vice President, Treasurer, Secretary, Activities Director, or Program Director, that you have nominated yourself or that you've been nominated!

We have some time, still, but we need to fill the positions in the board, and we really would like you to volunteer! Yes, I'm talking to YOU! :)

Thank you all for being such great Club Members! We've had some trials the past year, but we've found our way through!

Now, I don't know how many will be at the Steak Fry, but this is one gathering you really don't want to miss! First, we have Steak... second, we have some Steak... third, we have some pot luck dishes... fourth, we have some hot dogs, chips and drinks... fifth, we have some Steaks!

We'd like to have enough steaks, so please make sure you renew your membership PRIOR to the 21<sup>st</sup>!

After the Food, we'll have an auction with TONS of stuff to auction off! It is a great opportunity to get some things you may need... or want... you might just find something you can't leave without!

I'll be bringing some things... I know others will too!

We have a Tech Class coming up! If you have friends or know people who would like to get their License, this would be a great opportunity!

If you would like to help teach the class, get hold of our VP, Justin Hall (KB7LAK)! He would be glad for the help!

Next Month, we have the Tri-County Swap Meet in Bountiful! The Club will also be receiving a Recognition from the ARRL for our 100 Year Anniversary!

This Swap Meet is another great opportunity to get Radios or other gear you didn't know you needed!

I only have a quick reminder and a plea:

Many of you have noticed, we have an APRS packet that pings the Repeater about ever half-hour.

Please, check your radios and your settings. It is irritating as it constantly interferes in our regular radio communications.

If you think you know who it is, please, talk with them.

We aren't interested in causing anyone any trouble, but we would like the interference to stop.

I can't speak to other radios with APRS, but the FTM-400XDR is set up to only transmit the beacons on the "B" side of the VFO (bottom). Please, only turn on the beaconing if the "B" side is set to the APRS frequency, 144.390 MHz.

Use the "A" side for talking on the repeater, at lease, when you are using APRS.

Not sure if APRS is "on"? There will be a little icon of a small circle, sometimes with a dot on the inside. The circle is the APRS Beaconing "smart beacon" that usually only transmits the APRS information as the GPS information, speed, and or heading changes. The Circle with the Dot in the middle is the Beacon, which can be set to a specific time (30 minutes, 10 minutes, etc).

Normally the APRS packet carries the GPS information and the user's Call Sign. This one doesn't contain anything really useful. So, it might be a new radio?

I'm hoping we can find this individual and help them correct the settings on their radio!

Thanks!

Alright, time to wind this down...

I'm getting ready for a long trip. We are headed to Tacoma, WA. I won't have my truck, and my wife has said "no" to installing the radios in her car... so the HT it is!

I'm wondering if Snoqualmie Pass is high enough to hit our repeater? I guess we'll find out!

Thank you all for your diligence in helping keep this hobby fun!

--Dave (KD7GR)

## **CLUB ANNOUNCEMENTS**

## CLUB NEWS

### HAM and EGGS Net

Tuesday Evenings at 6:30 PM Mountain Time

Mt Ogden **70 cm repeater 448.600 MHz** (- offset, 123.0 PL Tone)

New, Intermediate & Old Timers. Elmering, Education, General Ham Discussion and Rag Chew.

New hams encouraged to check in. Get connected, learn new things and ask questions.

Questions: Larry Griffin AD7GL, [ad7gl@arrl.net](mailto:ad7gl@arrl.net)

Stan Sjol W0KP, [stansjol@xmission.com](mailto:stansjol@xmission.com)



## CLUB NEWS

### 10 Meter Net

Thursday Evenings at 0200 UTC (7:00 PM MT)

10 Meters HF - **28.385 MHz SSB (USB)**

Purpose is to promote activity on the 10 meter band (especially during low sunspot activity).

To give technician class operators an opportunity to operate phone, and to provide a venue for conversation and experimentation with antenna and ground wave propagation.

New: Work toward getting your "10 on 10 Award"

Questions and Net Control: Gene WB7RLX, ee\_morgan@outlook.com

## CLUB NEWS

### Ham & Eggs Breakfast

Each Wednesday, at a very early 8:00 am, some of the club members meet for an informal breakfast get-to-gather. Everyone is welcome.

Now at a new location:

**The Rusted Spoon-Ogden** (previously The Stagecoach)

**1310 Wall Ave, Ogden, UT**

NOTE: See you there ... if you can get up that early.

A record number attended recently ... 16 total.

73, Dave KJ7DAD

## CLUB NEWS



### Next Tech License Classes

Each Wednesday in September

OARC Tech Class Licensing Study (via Zoom)

September 2021 - each Wednesday - 7 to 9 PM **NEW!**

No pre-enrollment required.

However if you desire or have any questions,  
send an email to [w7su@arrl.net](mailto:w7su@arrl.net) with subject = "class".



VP - Justin Hall KB7LAK

## CLUB NEWS



### NEXT VE TEST SESSION

1st Wednesday 06 October 2021 @ 6:00 PM

Utah Military Academy - 5120 S 1050 W Riverdale UT 84405

**Important Notice:** Check the club website homepage VE-Test/Classes tab for **requirements** prior to attending a VE Test Session.



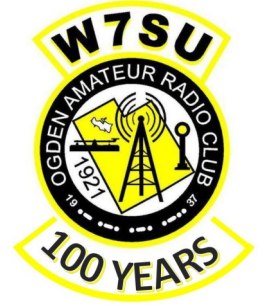
**VE Liaison** - Rick Morrison W7RIK [w7rik@arrl.net](mailto:w7rik@arrl.net)



**VE Co-Liaison** - Gil Leonard NG7IL [gil.ng7il@gmail.com](mailto:gil.ng7il@gmail.com)



**VE IT Assistant** - Jason Miles KE7IET



## ANNOUNCEMENT

***It is OARC Membership Renewal Time.***

All club member-ships expire in August.

We are 196 members strong now and over 98 members have renewed already.

That's exactly half way. Way to go members! Thank You!!

Renew your membership on-line using the "Join/Renew" tab near the top of the OARC web-site.

Fill out the Membership Application form online and then use the PayPal option ...

**OR**

Mail your membership application invoice along with a check to the OARC PO Box.

You can optionally order your new "100 year club badge" at the same time ...

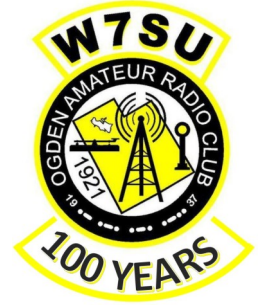
**OR**

At a later time if you choose.

Don't miss out on the Free-Steak and raffle for the GRAND-DOOR-PRIZES for all paid-up members at OARC's August Steak Fry and Elections meeting in August.

Oh yes, consider the Family Membership program and sign up your spouse and/or your whole family. For an additional \$10 everyone becomes eligible (licensed or not) for door prizes and a free steak at the OARC Steak Fry event.

Thank You.



## ANNOUNCEMENT

**It is OARC officers election time again already.**

Each September OARC elects 6 officers to run our club for the following fiscal year which runs August to August.

It is time to nominate someone of your choice or better yet, nominate yourself. If you think you would rather nominate someone else be sure to get their approval first.

Online Nominations run through Tuesday 10 August 2021 after which online voting will commence. Check out the club website homepage for details.

But first be sure to read the “Officers BRIEF Duties and Responsibilities” document posted on the club website homepage and is also posted below on the following page.

If you are curious the Detail version of this document is also posted elsewhere on the home page.

Offices open for election are as follows:

**President:**

**Vice President:**

**Secretary:**

**Treasurer:**

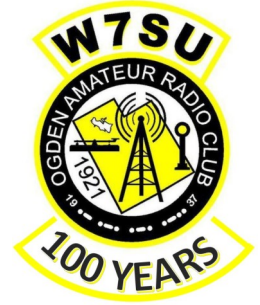
**Program Director:**

**Activity Director:**

This is very important. Give it your priority attention ASAP.

If you have any questions please contact our OARC secretary and nomination committee chair Barbara Siddle KB7FWW or send an email to the club website.

Thank You.



## BRIEF - OFFICERS DUTIES and RESPONSIBILITIES

Ogden Amateur Radio Club (OARC)

*501(C7) Non-Profit, Non-Charity Corporation*

The **PRESIDENT** presides over all Executive Board meetings, Club Meetings and Club Activities, unless delegated to another elected Officer, and provides over-all guidance and leadership for the Club. The President will reserve meeting venue location space for all in-person meetings. The President is also expected to contribute an article to the Club's newsletter each month in a timely manner.

The President is responsible for the Club call sign W7SU but should assign a Club Call Sign Trustee. The President may also assign a Club volunteer to manager ARRL club affiliation management and Golden Spike preparations.

The **VICE PRESIDENT** will assist the President as needed in the Club leadership and presides in the absence of the President. The Vice President is responsible for the Club's Education and Training programs and will represent the Executive Board in arranging class locations, designating instructors and coordinating training programs including coordination with VE Test Sessions.

The **SECRETARY** will take minutes at each Executive Board meeting and distribute them to the Executive Board members and Webmaster in a timely manner. The Secretary will also head the Elections Nominating Committee for the Club each year.

The **TREASURER** will maintain the Club financial records database. A quarterly financial status report will be published at the end of each fiscal quarter and presented at the Executive Board meetings as determined by the Club President and distributed to all Executive Board members and Webmaster. The Treasurer will also maintain a Club bank checking account, debit cards and a post office box. The treasurer will facilitate repeater auto-patch phone line charges and reimbursements from WCEM.

The Treasurer will file a corporation financial status with the IRS each spring and file a 501(C7) non-profit corporation renewal with the State of Utah each fall. These tasks may be delegated to another Club member volunteer.

The treasurer will also coordinate Club member Badge orders. This task may be delegated to another Club member volunteer.

The Treasurer is responsible for maintaining the Club membership database records including member join/renewals. This task should be delegated to the Club Membership Clerk volunteer.

CONTINUED ...

The **PROGRAM DIRECTOR** will be responsible for the regular meetings and programs held in-house on 3<sup>rd</sup> Saturday mornings in Oct, Nov, Jan, Feb, Mar, Apr, and optionally May. Plan, organize and schedule topics, presenters or activities for all internal club meetings. Notify the Webmaster and Newsletter editor each month as to the proposed agenda items.

The **ACTIVITIES DIRECTOR** will be responsible for external social and recreational activities and events, which include Golden Spike, Field Day, "T"-Hunt, Steak Fry and Christmas Family Dinner. Plan and organize venue reservations, purchases and delivery of food, drink and necessary appliances (radio stations, antennas, BBQ grills, etc.) for all external club activities. Solicit and recruit as much help as deemed necessary to be successful.



**PREVIOUS CLUB MEETING/ACTIVITY**

## PREVIOUS MEETING PICTURES

Photos by ... **club photographers**



Kathryn Sutton— K8RYN



Rick Hansen—N7EGA

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***"Previous Meeting/Activity/Event" ...***

***Photos and links located on the club web site home page.***

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**OARC needs a Social Media Manager**

**Volunteer today!**

**Check out the OARC Facebook page**

**"Ogden Amateur Radio Club"**

## CLUB NEWS

# OARC ARRL 2021 Field Day results submitted to ARRL (Jason Miles KE7IET)

Field Day Entry

<http://field-day.arrl.org/fdentry.php?call=w7su&id=22q7mtwo>



[ARRL Home](#) [Field Day Home](#) [Field Day Resources](#) [Field Day Locator](#) [Rules](#) [Entry Form](#) [Entries Received](#) [Results Soapbox](#)

### 2021 Field Day Entry - Confirmation

**Entry Update.** You've successfully updated your Field Day entry, as well as uploaded all required documentation. Your confirmation number is **22q7mtwo**. A summary of your updated submission is provided below for your review, as well as e-mailed to you. If you have any questions about your entry, please contact the Contest section at [contests@arrl.org](mailto:contests@arrl.org).

If you need to further update your entry, enter soapbox comments or upload photos of your Field Day activities, please use the appropriate link below (also included in the e-mail sent to you).

Link

Update entry/upload documents <http://field-day.arrl.org/fdentry.php?call=w7su&id=22q7mtwo>

Soapbox comments/photos <http://contests.arrl.org/contestssoapbox.php?call=w7su&id=22q7mtwo>

### Summary

Entry received at: 2021-07-19 04:32:01 UTC

Submitted by: **Jason Miles, KE7IET** E-mail: [jmiles2@gmail.com](mailto:jmiles2@gmail.com)

Call Used: **W7SU** GOTA Station Call: **(NONE)** ARRL/RAC Section: **UT** Class: **2A**

Participants: **63** Club/Group Name: **Ogden Amateur Radio Club**

Power Source(s): **Generator**

Power Multiplier: **2X**

**Preliminary Total Score: 2,122**

continued

**Bonus Points:**

Bonus	Points	Status
100% emergency power	200	
Media publicity	100	File [W7SU Field Day 2021 Press Release.docx] previously uploaded
Public location	100	
Public information table	100	File [W7SU Field Day 2021 Information Table.jpg] previously uploaded
W1AW Field Day message	100	File [W7SU Field Day 2021 Bulletin.pdf] previously uploaded
Natural power QSOs completed	100	File [W7SU Field Day 2021 Solar Power Contacts.csv] previously uploaded
Site visit by invited elected official	100	
Educational activity	100	
Youth participation (2 x 20, max of 100)	40	
Safety officer	100	Documented by W7SU Field Day 2021 Safety Checklist.png
Social media	100	
Entry submitted via web	50	
<b>Total bonus points</b>	<b>1,190</b>	

**Score Summary** - File [W7SU Field Day 2021.dup] previously uploaded

	CW	Digital	Phone	Total	
<b>Total QSOs</b>	104	0	258		
<b>Total Points</b>	208	0	258	<b>466</b>	<b>Claimed Score = (QSO points x power mult) = 932</b>

**Band/Mode QSO Breakdown:**

Band	CW		Digital		Phone	
	QSOs	Pwr(W)	QSOs	Pwr(W)	QSOs	Pwr(W)
160m						
80m						
40m	70	100			145	100
20m	34	100			113	100
15m						
10m						
6m						
2m						
222						
432						
Other						

Satellite

GOTA			
<b>Total</b>	<b>104</b>	<b>0</b>	<b>258</b>

## CLUB NEWS

### OARC "T"-HUNT 2021

"T" Hunt winner - Robert Disque KJ7UFM

Congratulations for being the first to find the 2021 bunny!



All 2021 "T"- Hunt pics posted on the club website.

**NEXT CLUB MEETING/ACTIVITY**

## **CLUB NEWS**

# **OARC Steak Fry**

## **Elections/Auction**

**Saturday 21 August 2021**

**OARC Steak Fry/Elections/Auction  
3rd Saturday 21 August 2021 - 5 PM  
Marriott Park - 1045 S 1200 W [MAP](#)**

**Exciting Grand Door Prizes ... TBA**

**(paid up members only, must be present to win)**

**NOTE: Please bring a side dish to share.**

**Also, bring your own dinner-ware (emergency paper-ware provided).  
Steak Fry (\$0/steak); Free hot dogs for the kids of all ages**

**Note: Bring items to donate for the Auction**

## CLUB NEWS

# OARC Steak Fry

## Closed bid silent Auction

Saturday 21 August 2021

### OARC Silent Auction

#### Yaesu FT-890 (HF Transceiver)

Includes internal antenna tuner, mic, power connection cables and user's manual.

Requires a separate 12-volt power supply and HF antenna.

Closed Bids will be received at the August Steak Fry meeting.

Silent (closed/sealed) Bids start at \$350.

OARC has used this transceiver each year at OARC's Golden Spike Special Event station and OARC's ARRL Field Day station for the past several/many years. It is being retired because the club just purchased two brand new transceivers.

GOOD LUCK!





## CLUB NEWS

(repeat)

# OARC has a new Vinyl Club Banner

Look for it at most of our club out door events.



## **CLUB & HOBBY NEWS**

## **CLUB NEWS**

(repeat)

**STILL WANTED—STILL NEEDED**

### **Ham Shack Photos**

**We have been doing this for 25 months now ...**

**But I am running out of photos so please ...**

**Send me your Ham Shack Photos soon!**

**Submit to: [k7hcp@arrl.net](mailto:k7hcp@arrl.net) or [w7su@arrl.net](mailto:w7su@arrl.net) or 801.389.0690**

## CLUB NEWS

### Ham Shack Photos

Last month the unidentified Ham Shack Photo was ...

**KF7SWC**

**John Berenyi**



## CLUB NEWS

### Ham Shack Photos

The next in the series of unidentified ham shacks is shown below.

**Do you know whose ham shack this is?**



## **CLUB NEWS**

(repeat)

### **OARC HAM RADIO EQUIPMENT LOAN PROGRAM**

**Check OARC website home page for equipment loan inventory chart.**

**There may some equipment there waiting for you to try out.**

**And it's FREE!**

73, OARC – W7SU

# CLUB NEWS

(repeat)

**WANTED...**

## OARC EQUIPMENT MANAGER

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After 14 years (yes, almost a decade and a half) acting as the OARC Equipment Manager, I have decided to retire from this volunteer position.

Consider the rewards awaiting you to volunteer for this rewarding and thrilling opportunity. *Hurry because this opening will go fast.* Contact our club president to secure your role in this position. .... ..

Thank you everyone.

73, Val Campbell K7HCP

# CLUB NEWS

(repeat)

**WANTED...**

## OARC SOCIAL MEDIA MANAGER



Consider the rewards awaiting you to volunteer for this rewarding and thrilling opportunity. *Hurry because this opening will go fast.* Contact our club president to secure your role in this position. .... ..

Thank you everyone. 73



## **CLUB NEWS**

**(repeat)**

### **OARC Annual Membership Renewal Drive**

**Memberships run August thru August**

**Signup or renew online now prior to August Steak Fry  
to be eligible for a free Steak and Grand Door Prizes**

**Click Join/Renew from club website homepage.**

**(You can order a new club badge at the same time)**

**PS: We already have 98 of our 196 current members renewed thru 2022 or beyond.**

## Club Badges

OARC Club badges are available for all licensed club members.

The cost is **\$12.00** each. The badge comes with a “MAGNETIC” clip. Badge includes your Call Sign in large letters and your First Name in a somewhat smaller font in white lettering on a pitch black background with the club logo. See example below.



Place your order along with **\$12.00** prepaid in advance for each badge ordered and specify Call Sign and First Name.

Visit the club website home page Join/Renew tab and select the Badge Order form to order your badge. You can use PayPal or mail your check to the club PO Box.

**CONTRIBUTING EDITOR SUBMISSIONS**

## CLUB NEWS



Just getting ready to go camping.  
Shows the special antennas for the fox hunt.

Rick Hansen N7EGA

# CLUB NEWS



Submitted by Rick Hansen N7EGA

# GUEST ARTICLE

by Kent Gardner



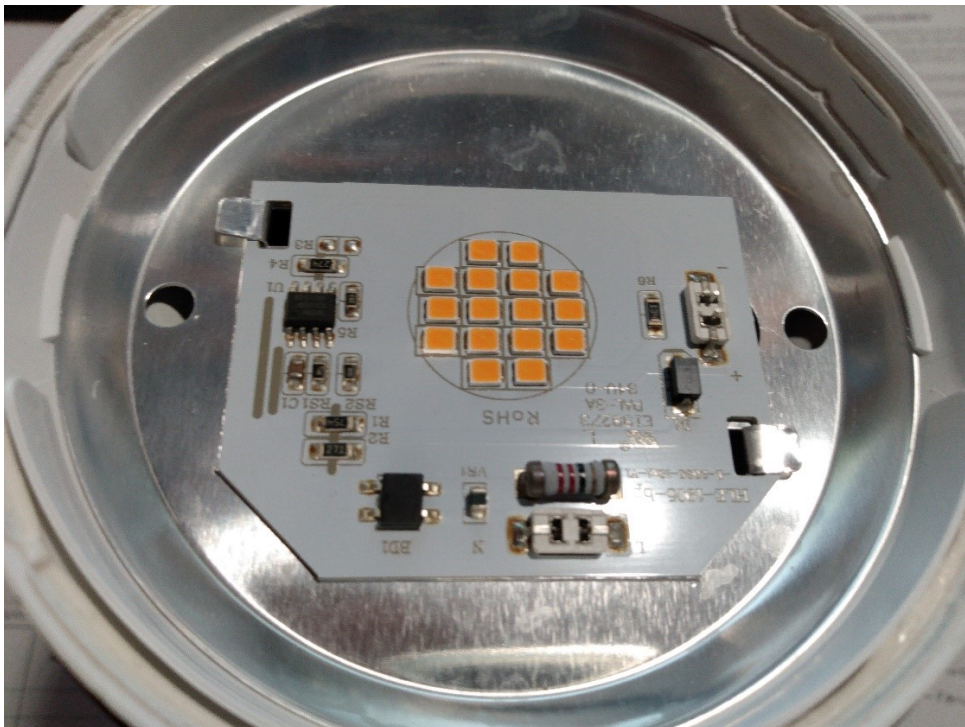
## COMPARING CONDUCTED EMISSIONS FROM LED LAMPS

For years now, I had been shying away from replacing my incandescent lights with LED or Compact Fluorescent Light (CFL) bulbs. I thought CFLs were a complete waste of time in that they seemed very dim when first turned on. LEDs and CFLs were very expensive in the beginning too and I heard rumors that both radiated interference on certain frequencies that we amateur operators used.

My house has a lot of recessed lighting and I was comfortable in replacing any burned-out bulbs with incandescent ones. I went to the store to buy more, but didn't realize that I bought LED bulbs. Rather than take them back, I bit the bullet and replaced all my kitchen bulbs with LEDs. When I flipped the switch, they all came on immediately and with a brighter whiteness. What had I done!

I have a shortwave receiver by my bed, but would have to wait until my wife would turn off the TV and the neighbors also, before the noise level was low enough to tune the bands. I did not notice any increase or decrease of noise identifiable to the LED bulbs.

When one of the new LED bulbs became intermittent, I replaced it with a new one. As a matter of curiosity, I wanted to see what an LED bulb would look like inside. I took it out to my dumpster and held it inside and tried breaking it with a hammer, thinking the light was glass. It wouldn't shatter, but I dislodged the top from the base. Here is what it looked like in the plastic shell.



The orange squares are the LEDs. The rest of the circuitry are voltage and driver circuits. This is where the interference is generated.

I did some research and found the following references:

1. Light Bulbs and RFI—A Closer Look. QST October 2013 Page 42. I have a copy in case anyone would be interested.
2. FCC's OET Clarifies Emissions Compliance Testing for RF LED Lighting Devices. ARRL main web page (as of 30Jul21). Article was dated 30Jun16.
3. Approaches to Tackle Noise Problems Vary, Remedies Elusive. ARRL main web page (as of 30Jul21). Article was dated 3Mar21.

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I am also a member of the Society of Radio Amateur Astronomers (SARA). One of the members found an article about LEDs and posted it. It is from the digital version of EDN magazine. Partial reprint is authorized by [Brian Santo, Editor-in-Chief, EE Times, 16Jul21](#)

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## Comparing conducted emissions from LED lamps



JULY 3, 2021

BY KENNETH WYATT

Radio frequency interference (RFI) to frequencies in the AM and shortwave broadcast bands has been on the increase in the last two decades, due primarily to switch-mode power supplies being used for environmental reasons. This affects reception not only in these bands, but military and amateur radio communications in

the 1.8 to 30 MHz frequency bands as well. These emission sources produce interference that can affect radio reception from 100s of feet to a mile away, or more.

This interference is largely due to the myriad of “wall wart” and “fat snake” (detachable) power supplies, as well as switching power supplies in household appliances, solar panels, power tools, and the dozens of internet-connected devices now in our homes. It is also due to the CFL and LED lamps commonly in use now that we’ve transitioned away from incandescent lighting.

LED lighting interference will be the focus of this article. A few years ago, I wrote about the unfiltered lighting ballasts (switching power supplies) used for illegal marijuana grows occurring in Oakland, California and other urban areas of the country. These were causing RFI between 1 and 2 miles away.

When LED lighting first became commercially available around 2010, I had purchased several samples to test in the Agilent Technologies (at the time) EMC chamber. While I never published the results, they were not encouraging. Recently, I purchased another smaller sample to compare the results to determine if there had been any improvement over the last decade. With one surprising exception, I was disappointed to observe little improvement in emissions level. We’ll be measuring conducted emissions, but because these LED lamps are typically connected to largely unshielded building wiring, we can get extreme radiated emissions in these frequencies as well.

Editor’s note: For the complete article, test setup and the results follow the link below:

<https://www.edn.com/comparing-conducted-emissions-from-led-lamps/>

(Note: Copy/Paste the URL above into your browser.)

Editor’s note:

Bulbs mentioned in the article:

1. Cree (Home Depot)
2. Utilitech Pro (Lowe’s house-branded)
3. Philips (Walmart)



4. Every Day Living (Kroger's brand). The author indicates that it was amazingly low across the entire frequency band.

Bulbs not mentioned in the article:

1. EcoSmart, Felt Electric, Philips (Home Depot)
2. Felt Electric and Ace (Ace Hardware)

TNX Kent Gardner, WA7AHY

# GUEST ARTICLE

by Dan KB6NU



I think this guy has done a crackerjack job of prototyping this circuit.



## FCC Reaffirms Nearly \$3 Million Fine for Marketing Unauthorized Drone Transmitters

06/30/2021

In a *Memorandum Opinion and Order* ([MO&O](#)) released June 17, the FCC denied a *Petition for Reconsideration* filed by HobbyKing of a \$2,861,128 fine for marketing noncompliant RF equipment and for failing to respond to FCC orders in its investigation of the company's practices. In the same step, the FCC enforced its equipment marketing rules. The fine resulted from an FCC investigation initiated by ARRL's January [2017 complaint](#) that the HobbyKing equipment was "blatantly illegal at multiple levels."

"The *Forfeiture Order* is the final chapter of a story that started with a report to the ARRL Board by the EMC Committee in 2017, as a result of the discovery that aerial drone TV transmitting equipment was being imported and marketed without proper FCC authorization under FCC Part 15 rules," said ARRL Electromagnetic Compatibility Committee Chair Kermit Carlson, W9XA.

As spelled out in ARRL's 2017 complaint, the ARRL Laboratory had documented that the operating frequencies of these drone TV transmitters near the 1.3 GHz amateur band were dip-switch selectable for frequencies internationally assigned for use by Aeronautical Navigation, GPS, GLONASS L1, ATC Mode "S," as well as to both the interrogation and reply frequencies used for Air Traffic Control Air-Route Surveillance "transponder" radar systems. "Transmissions from these drone TV transmitters would have caused harmful interference to these essential Navigation and ATC Radar systems, presenting a real and dangerous threat to the safety of flight," Carlson said.

ARRL's complaint noted that given the channel configuration, these units would not have a legitimate amateur radio use, and that the marketing was directed at drone enthusiasts and not to licensed radio amateurs. "ARRL Laboratory tests did prove that only one of the seven available channels was within the 1.3 GHz amateur band," Carlson said.

"This is another example of ARRL not only affirmatively acting to protect our Members' interests, but also acting to protect the safety and security of vital services and the general public," Carlson said. HobbyKing had denied that it was marketing its drone transmitters to US customers, but as the ARRL January 2017 complaint pointed out, ARRL Laboratory Manager Ed Hare, W1RFI, was able to purchase two drone transmitters from HobbyKing and have them shipped to a US address for testing in the Lab. Hare and ARRL Lab staffers Mike Gruber, W1MG, and Bob Allison, WB1GCM, tested the units. Carlson, as well as the Electromagnetic Compatibility Committee he chairs, were credited in the complaint for calling attention to the issue and prompting ARRL's action.

"The FCC noted that Amateur Radio equipment used to telecommand model craft are limited to 1 W (1,000 mW), but three transmitters included in the FCC investigation operated at significantly higher power levels of 1,500 mW and 2,000 mW," ARRL said.

HobbyKing had told the FCC that it had no notice of the Commission's authorization requirements; that the Fifth Amendment relieved HobbyKing of its duty to respond; that the forfeiture amount was inappropriate because its parent company, Indubitably, Inc., lacked the ability to pay to the *Forfeiture Order*; and that the Commission was time-barred from taking action against ABC Fulfillment Services LLC because it was not part of HobbyKing's business.

"Upon review of HobbyKing's *Petition for Reconsideration* and the entire record, we find no basis for reconsideration because the petition fails to present new information warranting reconsideration," the FCC said in the *MO&O*. "Rather, HobbyKing again raises the very same arguments already considered and rejected in the *Forfeiture Order*."

The fine reaffirms the monetary penalty sought in a June 2018 FCC *Notice of Apparent Liability* ([NAL](#)). The FCC said it found that dozens of devices marketed by the company transmitted in unauthorized radio frequency bands and, in some cases, operated at excessive power levels.

HobbyKing is the trade name of two US-based companies that include ABC Fulfillment Services LLC and Indubitably, Inc. HobbyKing has a New York office and customer service operations in the US, the FCC noted.

In its earlier *Forfeiture Order*, the FCC said it had made clear that "[d]evices used in the Amateur Radio Service do not require authorization prior to being imported into the United States, but "if such equipment can operate in amateur and non-amateur frequencies, it must be certified prior to marketing and operation." The FCC investigation found that 65 models of devices marketed by HobbyKing did not have the required FCC certification.

Responding to the FCC, HobbyKing claimed to have ceased marketing the 65 models the FCC identified, but promised only to make "best efforts" not to market other noncompliant RF devices.

"HobbyKing has a continuing obligation to market only radio frequency equipment that is properly authorized," the FCC said. "We therefore remind HobbyKing that continuing to market noncompliant radio frequency devices could result in further significant forfeitures."

## O'bay Swap

**SWAP ITEM #**

**FOR SALE:**

**WANTED:**

**Swap Items—Advertise here!**

**To view classified items ...  
click link from the club website homepage.**

**CLUB REFERENCE MATERIAL**

## CLUB REPEATER NEWS



Scott Willis KD7EKO



Mike Fullmer KZ7O

**Scott Willis KD7EKO and Mike Fullmer KZ7O are the OARC repeater engineers that keep our club repeaters at Mt Ogden and Little Mountain operational.**

# OARC MEMBERSHIP DRIVE

## SUPPORT YOUR RADIO CLUB

Don't forget to signup/renew your OARC membership now (\$15) which runs August to August. Consider signing up your spouse as well. Remember ... FREE Steak at Steak Fry for ALL members.

Ham + Spouse = \$15 + \$10 = \$25

THANK YOU FOR YOUR SUPPORT

## Join OARC

### Join or Renew your membership now!

**Joining & Renewal is easy.** On the club website home page click Join/Renew tab and fill out the membership form. You can pay using your PayPal or mail a Check or Money Order to the club PO Box listed. Or print a hardcopy of the membership form, fill it out and mail it to the PO Box along with your payment. Better yet, Come to a club meeting and bring the completed membership form with you.

**DUES:** Dues are \$15.00 per person and runs August - August. (Ham + spouse = \$25.) More than one ham in the family? Consider the OARC Family plan for \$25.

**NOTE: New Hams >>>** Membership in OARC is complimentary for remainder of 1st year licensed.

Membership in the Ogden Amateur Radio Club is open to anyone interested in Amateur Radio. You do not need an amateur license to join us. You do not need to join the club to participate with us. Dues are used to operate the club, field day activities, and repeater equipment maintenance.



## Club Badges

OARC Club badges are available for all licensed club members.

The cost is **\$12.00** each. The badge comes with a “MAGNETIC” clip. Badge includes your Call Sign in large letters and your First Name in a somewhat smaller font in white lettering on a pitch black background with the club logo. See example below.



Place your order along with **\$12.00** prepaid in advance for each badge ordered and specify Call Sign and First Name.

Visit the club website home page Join/Renew tab and select the Badge Order form to order your badge. You can use PayPal or mail your check to the club PO Box.

## OARC Facebook Page



**Did you know that OARC has a Facebook page ?**

**Just click on the icon on the bottom of the club website home page to visit OARC's ongoing monthly activities and events. They are posted here for your viewing pleasure.**

## OARC You Tube Channel



### **Did you know that OARC has a You Tube Channel ?**

**A lot of our meeting presentations are recorded and posted to our OARC You Tube channel for you to view at a later date.**

**It's easy to view missed**



**meetings...**

**Just click on the icon on the bottom of the club website home page to view recorded meetings preserved for your viewing pleasure.**

## ANNOUNCEMENTS

### Next Club Meeting:

**3<sup>rd</sup> Saturday of each Month**

The Ogden Amateur Radio Club meetings are usually held on the **3<sup>rd</sup> Saturday** of each month.

### Meeting/Activity:

**See monthly notices earlier in this newsletter.**

Talk-in: - 448.600 (pl 123.0)

Check OARC web site for details

**[www.ogdenarc.org](http://www.ogdenarc.org)**

Please invite a friend to join you. You do not have to be a member of the club to participate in our club meetings or activities. We invite all to join us.

If anyone is interested in doing a presentation on something or just have something unique to show at the meetings. - Please get a hold of any of the officers and let us know.

### Next Weber Co VE Test Session:

**1st Wednesday Feb, Jun & Oct**

Exam sessions are held in Ogden every few months, **usually** the first Wednesday in February, June, and October.

**Time: 06:00 PM** *Walk-ins allowed*

**Location: Permanent location**

**Utah Military Academy  
5120 S 1050 W  
Riverdale UT 84405**

**Contact: VE Liaison:**

**Rick Morrison W7RIK** (Co-Liaison)

**[morrisonri@msn.com](mailto:morrisonri@msn.com)** (801-791-9364)

**Gil Leonard N7GIL** (Co-Liaison)

**Jason Miles KE7IET** (IT)

**Cost: \$ 14.00**

Two forms of **ID**, one of which must be a **picture ID**.

For "Upgrades" bring current **license** and a **copy** of current license, and any **CSCE's**

Most **calculators** allowed. Calculator memories must be cleared before use.

## Club Web Site

Be sure to visit our club web site.

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

Club membership is open to anyone interested in Amateur Radio. You do not need an amateur license to join us. Dues are used to operate the club, field day activities, and repeater equipment maintenance.

## Club Call Sign

Listen to the club repeaters for this very familiar CW ID. You do know Morse Code don't you?

**W7SU**

## OARC is 100 years old

OARC was established in May 1921 and became ARRL affiliated in 1937.

<b>OARC REPEATERS</b>			
(*) Yaesu Fusion digital/FM compatible			
FREQ	CLUB	TONE	LOCATION
146.900-	OARC (*)	125 DCS	Mt Ogden (w/WiresX)
448.600-	OARC (*) "talk-in"	123.0	Mt Ogden
146.820-	OARC (*)	123.0	Little Mtn
448.575-	OARC	100.0	Little Mtn (w/auto patch)

<b>OTHER AREA REPEATERS</b>			
FREQ	CLUB	TONE	LOCATION
146.620-	UARC	none	Farnsworth Pk
147.120+	UARC	100.0	Farnsworth Pk
449.100-	UARC	146.2	Farnsworth Pk
449.500-	UARC	100.0	Farnsworth Pk
147.040+	DCARC	123.0	Antelope Isl
447.200-	DCARC	127.3	Antelope Isl
449.925-	DCARC	100.0	No Salt Lake
145.290-	GSARC	123.0	Brigham City
145.430-	GSARC	123.0	Brigham City
147.220+	GSARC	123.0	Brigham City
448.300-	GSARC	123.0	Brigham City
146.780-	UVARC	100.0	Lake Mtn
146.640-	BARC	none	Logan
146.720-	BARC	103.5	Mt Logan
147.260+	BARC	103.5	Promontory Pt
449.625-	BARC	103.5	Mt Logan
145.250-	WSU	123.0	* coming soon
449.250-	WSU	123.0	* coming soon
145.490-	K7HEN	123.0	Promontory Pt
146.920-	N7TOP	123.0	Promontory Pt
449.775-	N7TOP	123.0	Promontory Pt
147.100+	Morgan	123.0	Morgan Co
448.825-	IRLP/Echo	123.0	Clearfield City
449.950-	IRLP	123.0	Clearfield City
449.425-	IRLP	100.0	Nelson Peak
147.360+	Summit Co	100.0	Lewis Peak

## AREA CLUB MEETINGS & WEB SITES

CLUB	WEB SITE	DATE/TIME	LOCATION
<b>OgdenARC</b>	<a href="http://ogdenarc.org">ogdenarc.org</a>	<b>3<sup>rd</sup> Saturday 09:00 am</b>	<b>Check OARC web site ...</b>
WC Sheriff Comm-O		1 <sup>st</sup> Saturday 10:00 am	Weber Co. Sheriff Complex West 12 <sup>th</sup> Street Ogden Utah
Barc	<a href="http://barconline.org">barconline.org</a>	2 <sup>nd</sup> Saturday 10:00 am	Cache Co. Sheriffs Complex 200 North 1400 West Logan Ut
CSErg	<a href="http://dcarc.net/ares.htm/">dcarc.net /ares.htm/</a>	Last Wednesday 8:30pm	Clearfield City Hall Clearfield Utah
DCarc	<a href="http://dcarc.net">dcarc.net</a>	2 <sup>nd</sup> Saturday 10:00 am	Davis Co. Sheriff Complex Farmington Utah
NU Ares	<a href="http://home.comcast.net/~noutares/">home.comcast.net/ ~noutares/</a>	3 <sup>rd</sup> Wednesday 7:00 pm	Cache Co. Sheriff Office Logan Utah
Uarc	<a href="http://xmission.com/~uarc/">xmission.com /~uarc/</a>	1 <sup>st</sup> Thursday 7:30 pm	UofU EMC Bldg Room 101 Salt Lake City Utah
UVarc	<a href="https://uvarc.club">https://uvarc.club</a>	1 <sup>st</sup> Thursday 6:30 pm	Orem City Council Chamber Room 56 North State St. Orem Utah
GSarc	<a href="http://Ubetarc.org">Ubetarc.org</a>	Check Website	Check Website
Utah DX Association	<a href="http://udxa.org">udxa.org</a>	3 <sup>rd</sup> Wednesday check web page for details	check web page for details Salt Lake City area
UvhfS	<a href="http://ussc.com/~uvhfs/">ussc.com /~uvhfs/</a>	Each Tuesday 8:00 pm (refer to web site)	Weekly 2 meter net (no eye ball meetings)
WDArc	<a href="http://westdesertarc.org/">westdesertarc.org/</a>	1 <sup>st</sup> Tuesday 7:00 pm	Tooele County Courthouse Tooele Utah
WsuArc	<a href="https://groups.google.com/forum/#!forum/wsuarc">https://groups.google.com/forum/#!forum/wsuarc</a>	3 <sup>rd</sup> Thursday 5:30 pm	WSU Blding #4 Room ? Ogden Utah

## LOCAL AREA NETS

DATE	CLUB	FREQ
Daily @ 12:30 PM mt	Utah Beehive net HF	7.272 Mhz <b>HF LSB</b>
Daily @ 07:30 PM mt	Utah Code net HF	3.570 Mhz <b>HF CW</b>
Daily @ 02:00 UTC	Utah Farm net HF	3.937 Mhz <b>HF LSB</b>
Sunday @ 8:45 AM	Ogden Old Timers HF net	7.193 Mhz <b>HF LSB</b>
Sunday @ 7:30 PM	GS ARC	145.430 - 123.0 (training net)
Sunday @ 8:30 PM	SATERN Net	145.900 - 123.0
Sunday @ 9:00 PM	Morgan Co Net	147.100 +123.0
Sunday @ 9:00 PM	UARC Info net	146.620- no PL tone required
Monday @ 9:00 PM	2-meter SSB net	144.250 Mhz <b>2-meter USB</b>
<b>Tuesday @ 6:30 PM</b>	<b>OARC—Ham &amp; Eggs Net</b>	<b>448.600 -123.0</b>
<b>Tuesday @ 8:00 PM</b>	<b>Weber ARES</b>	<b>448.600 - 123.0</b>
Tuesday @ 8:00 PM	VHF Society Swap	147.120 + 100.0
Tuesday @ 9:00 PM	Bridgerland ARC	147.260 + 103.5
Wednesday @ 7:00 PM	Am-Con Northern Utah	448.600 -123.0
Wednesday @ 8:00 PM	GS ARC	145.290-, 145.430-, 448.300- (all 123.0)
Wednesday @ 8:30 PM	CSEGR	145.770 simplex
Wednesday @ 9:00 PM	No. Utah 10m HF net	28.313 Mhz <b>HF USB</b>
Wednesday @ 9:00 PM	6-meter SSB net	50.125 Mhz <b>6-meter USB</b>
<b>Thursday @ 7:00 PM</b>	<b>OARC - 10 Meter Net</b>	<b>28.385 MHz USB (all hams invited)</b>
Thursday @ 6:30 PM	Davis Co Elmers Net	147.040 + 123.0 <b>New Hams</b>
Thursday @ 8:00 PM	Weber State ARC	146.820 - 123.0 (coming soon)
Thursday @ 8:00PM	State RACES VHF/IRLP	145.490 - 123.0, 146.680 - 123.0 3 <sup>rd</sup> Thursday - even months only
Thursday @ 8:30 PM	Davis ARES	147.420 = simplex
Thursday @ 9:00PM	Wasatch Back Net	147.360 + 100.0
Saturday @ 8:00AM mst	RACES State HF	3.920 Mhz <b>HF LSB</b> 3 <sup>rd</sup> Saturday – odd months only
Saturday @ 11:00AM mst	QCWA net HF	7.272 Mhz <b>HF LSB</b>

## OARC OFFICERS

President: Dave Mamanakis KD7GR

Vice President: Justin Hall KB7LAK

Secretary: Barbara Siddle WB7FWW

Treasurer: J. Siddle KG7CJN

Program Director: Mike Wilde KJ7HEX

Activity Director: **Vacant**

## "WATTS NEWS" e-Magazine

NL Editor: Val Campbell K7HCP

## "OARC" web site

Webmaster: Val Campbell K7HCP

## OTHER CLUB APPOINTMENTS

VE Liaisons: Richard Morrison W7RIK

Gil Leonard NG7IL

Jason Miles KE7IET (IT)

Repeater Engineers: Mike Fullmer KZ7O

Scott Willis KD7EKO

Membership Clerk: Val Campbell K7HCP

Photographer: Kathryn Sutton K8RYN

Asst Photographer: Rick Hansen N7EGA

Social Media Manager: **Wanted**

QSL Manager: Pete Heisig AI7GV

Historian: Kent Gardner WA7AHY

Equipment Manager: **Wanted**

Antenna Manager: Gene Morgan WB7RLX

Club Call Sign Trustee: Larry Griffin AD7GL

Club Elmer: Stan Sjol W0KP

## **Centennial Committee Chair:**

**Gil Leonard NG7IL**

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Advisors: Mike Fullmer KZ7O

Kent Gardner WA7AHY

Kim Owen KO7U

Larry Griffin AD7GL

Gil Leonard NG7IL

Jason Miles K7IET

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**73 de W7SU**

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