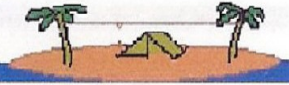


WATTS NEWS



The Best of Amateur Radio

OARC e-Magazine

www.OgdenArc.org

October 2023

Next Club Meeting/Activity/Events

Look Inside



Craig Howe W0VRM
President



Justin Hall KB7LAK
Vice President



Colleen Pike KJ7EAY
Secretary



J. Siddle KG7CJN
Treasurer



Gary Hudman KB7FMS
Program Director



Mike Fullmer K270
Activity Director



Val Campbell K7HCP
Webmaster/NL Editor

OARC Website Masthead

www.OgdenArc.org

OARC OFFICERS

President: Craig Howe W0VRM

Vice President: Justin Hall KB7LAK

Secretary: Colleen Pike KJ7EAY

Treasurer: J. Siddle KG7CJN

Program Director: Gary Hudman KB7FMS

Activity Director: Mike Fullmer KZ7O

OARC ADVISORS (past presidents)

Gary Liptrot N7ZII

Mike Fullmer KZ7O

Kent Gardner WA7AHY

Kim Owen KO7U

Larry Griffin AD7GL

Gil Leonard NG7IL

Jason Miles K7IET

Dave Mamanakis KD7GR

Executive Operations Manager

Val Campbell K7HCP

"WATTS NEWS" e-Magazine

NL Editor: Val Campbell K7HCP

"OARC" web site

Webmaster: Val Campbell K7HCP

Postmaster: Val Campbell K7HCP

Membership Clerk: Val Campbell K7HCP

OARC VOLUNTEER APPOINTMENTS

10m Net Control - Gene Morgan WB7RLX

Antenna Manager – Gene Morgan WB7RLX

Assistant Photographer - Rick Hansen N7EGA

Badge Manager – Barbara Siddle KB7FWW

Club Call Sign (W7SU) Trustee – Larry Griffin AD7GL

Club Caterer - Ceva Cottrell W7CVA

Club Chef - Dave Mamanakis KD7GR

Club Elmer – Stan Sjol W0KP

Club Facility Manager—Dave Mamanakis KD7GR

Club Technical Support – Rick Morrison W7RIK

Equipment Loan Program - Val Campbell K7HCP

Equipment Manager - Dave Mamanakis KD7GR

FD Log Manager - Jason Miles KE7IET

Field Operations Manager - Gene Morgan WB7RLX

Ham & Eggs Breakfast – Dave DeHeer KJ7DAD

Ham & Eggs Net Control - Kenny Pronschinske K17UFN

Ham & Eggs Net Control – Larry Griffin AD7GL

Ham & Eggs Net Control – Stan Sjol W0KP

Historian/Librarian – Kent Gardner WA7AHY

Media Manager—Kent Gardner WA7AHY

Photographer – open

QRZ Manager – open

QSL Manager – Pete Heisig AI7GV

Repeater Engineer – Mike Fullmer KZ7O

Repeater Engineer – Scott Willis KD7EKO

Social Media Manager - Dave Mamanakis KD7GR

YouTube Videos - Jason Miles KE7IET

VE Liaison Operations – Rick Morrison W7RIK

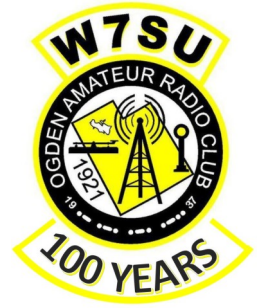
VE Assistant - open

VE IT – Jason Miles KE7IET

Zoom Manager – Justin Hall KB7LAK



OARC COMING EVENTS



Next Meeting/Activity

3rd Saturday 21 October 2023

9:00 AM @ UMA

OARC Donation Auction

**Congratulations to those who successfully tested
at the OARC - OCTOBER 2023 VE TEST Session**

EXTRA

CALL

GENERAL

Jody Deamer

CALL

KK7DOA

TECHNICIAN

Braden Ainsworth

Robert Blind

LaRoy Wright

CALL

Next VE Test Session

1st Wednesday 07 February 2024 @ 6:00 PM

A MESSAGE FROM OUR PRESIDENT

Craig's Corner



Craig Howe W0VRM

Craig's Corner October 2023

Today I recognize and appreciate all those who serve our club. Dave KD7GR served as our President for 5 terms which to my knowledge is the longest tenure of any president of the Ogden Amateur Radio Club.

We have many others who have served as our President and they continue to serve as advisors to me and our Board. It's helpful to have this legacy of service providing guidance as we move forward.

This month I wish to highlight the service given by Scott Willis and Gene Morgan along with others who have been working on the repeaters in our area.

They have taken numerous trips to Mt. Ogden and Promontory over this summer to repair and upgrade the sites. We benefit from hours of effort, not a few, so we can have use of the repeaters without interruption as much as possible.

In addition to the 2 meter and 70 cm band repeaters, new GMRS repeaters with solar upgrades have been added over the last year. We now have the same capability of the 448.600 ham repeater on MT. Ogden with GMRS using the 462.600 MT. Ogden repeater. It is another tool for communications that Scott and Gene have very generously provided to us. The range of these repeaters is most impressive.

For those with interest, I encourage you to obtain a GMRS license and try them out. Promontory 462.700 D114N, MT. Ogden 462.600 D114N. GMRS always has a positive offset which is automatic in most GMRS radio repeater channels.

Remember our Auction this month third Saturday at UMA.

Until next time, 73 all. Craig W0VRM

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

Stan Sjol (W0KP), stansjol@xmission.com

Kenny Pronschinske (KI7UFN), kennypron@hotmail.com



Larry Griffin

AD7GL



Stan Sjol

W0KP



Kenny Pronschinske

KI7UFN

CLUB NEWS

10 Meter Net

Thursday Evenings at (18:30) 6:30 PM MT

10 Meters HF - **28.375 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.

NOTICE: **“Work toward getting your “10 on 10 Award”**

“Work toward getting your “10 meter WAS Award”

Questions and Net Control: Gene (WB7RLX), ee_morgan@outlook.com



Gene Morgan (WB7RLX)

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:

The Rusted Spoon-Ogden (previously The Stagecoach)

1310 Wall Ave, Ogden, UT

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

73, Dave KJ7DAD



Dave DeHeer (KJ7DAD)

PREVIOUS CLUB MEETING/ACTIVITY

CLUB NEWS

PREVIOUS CLUB MEETING

Tri-County Swap Meet

Date: 3rd Saturday, 16 September 2023

Time: 9:00 am

Location: Bountiful Utah

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



PREVIOUS MEETING PICTURES

Photos by ... **club photographers**



Rick Hansen—N7EGA

Note: We need a 2nd club photographer. Consider volunteering!

"Previous Meeting/Activity/Event" ...

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

ALSO

Check out the OARC Facebook page

"Ogden Amateur Radio Club"

OARC SOCIAL MEDIA MANAGER ... needed

NEXT CLUB MEETING/ACTIVITY

CLUB NEWS

Next Club Meeting/Event/Activity

OARC Donation Auction

3rd Saturday 21 October 2023

9:00 AM @ UMA

>>> Check website for details <<<

CLUB & HOBBY NEWS

A MESSAGE FROM OUR VICE PRESIDENT



By Justin Hall KB7LAK

I would just like to thank everyone for the vote of confidence as the VP.

Get involved in the club! We have a lot of activities coming up with the club you don't want to miss.

The Auction is this month, so donate what you don't use anymore and come bid on something you will use (or donate next year!)

Our annual Christmas Party/Dinner is always a lot of fun for everyone. Is it already getting to be that time of year? It seemed like we just had Golden Spike and Field Day! Get the vehicles ready for winter and be ready to assist if the community needs us.

I've been enjoying the openings on 10 meters, and just worked a guy on CW in Georgia. Which reminds me, you can get your 10 on 10 award. FT-8 can get it in 10 minutes, but I'm doing it on CW. It's going to take me a little longer that way. But that's OK. Get it any way you can, because even if you're old like me and have been a ham for over 30 years, chances are 10m has been dead for the vast majority of that time! Get it while it's hot. And the contact has to be over 100 miles away. No fair checking into the 10m net and calling it good. Gene has a lot more integrity than that!

Get on the air and say hi. If someone identifies on the repeaters, jump in and say hi for a minute. I do make an honest effort to answer people when they get on, but sometimes I'm a little occupied.

Thanks for all you do as a club. I love how much we do together and enjoy interacting with everyone.

I'm working on getting Scott Overholt KA6IOM to bring in some old tube rigs (he was a HUGE collection!) and talk about them. He loves how simple they are to fix, and how they do require some skill to operate. I forget to turn them on and warm them up to stop them from drifting, so I need to remember to turn them on sooner. Not a ton of knobs and buttons on those old rigs. Somehow people were able to communicate with them. And removeable crystals.

Until next month, enjoy the beautiful colors on the hills and the cooler weather. Give me a shout on the air if you hear me out there!

DE KB7LAK

GUEST CONTRIBUTION

By Rick Hansen N7EGA



How can an antenna work when its only one side is attached to a circuit, like a wire in an RC car?

You are correct to be puzzled by this. Most people, even technical people, do not know the real answer.

All antennas interfaced to a circuit are two-terminal (two connection) devices. They always must have at least two connected terminals.

In this case, one terminal is formed by the wire itself. That wire acts as the primary radiator, the thing we typically call the antenna. Now it is electrically impossible to push current up into that wire or to pull current out without a second terminal or termination to push and pull against.

That second terminal has NOTHING to do with the Earth or specifically something we might call a “circuit ground”. It is the electrical mass of all the conductors in the R/C car, that lump of wiring and metals, that forms the second terminal. All of the wiring and conductors in the car form the second terminal.

One might wonder how the circuit is formed. There must be a return path somehow between the single terminal antenna back to the car’s electrical mass that forms the second terminal. The return path that completes the circuit is through displacement currents. It is the voltage on the antenna that drives displacement current through the air from the antenna to the car’s electrical mass, causing displacement currents.

The antenna forms one distributed plate of a capacitor and the wiring and conductors in and around the car form the other capacitor “plate”.

Thus when we look at the function of various physical things, we have two terminals. Neither terminal needs to involve an earth ground, battery, negative, or a dedicated ground plane. One terminal is the antenna itself, the other terminal is the physical electrical mass of all the conductors in the R/C car. The path required by Kirchoff laws is via displacement currents. The displacement currents are via the capacitance and the time-varying voltage potential difference between the antenna and the electrical mass of all the other conductors in the area of the antenna.

In the most simplistic possible view, the antenna is “pushing against” the electrical mass of the car conductors, and to a lesser extent any other conductors in the area. It is the almost magical displacement current that forms the required circuit. Often times we build a dedicated tuned counterpoise to collect and return displacement currents. Sometimes we just use what is already there, since we can correct any reactance from imperfect tuning with a lumped component or with a special transmission line used for matching.

This is how it actually works.

GUEST CONTRIBUTION

By Jim Southwick N7JS



Malaysia Airlines flight MH370 disappeared just 38 minutes into its flight in 2014. (Source: istock.com)



Aviation experts believe research may have uncovered the final resting place of flight MH370, which disappeared in 2014.

The Malaysia Airlines airplane disappeared roughly 38 minutes after leaving Kuala Lumpur airport, headed for Beijing, on March 8, 2014.

The plane was never found, and the fate of its 237 passengers remain unknown.

However, new research uncovered by Richard Godfrey, Dr Hannes Coetzee, and Professor Simon Maskell may uncover some of the many missing pieces.

A 299-page report released on Wednesday suggests the missing wreckage may be located roughly 1560km west of Perth, Australia. The theory comes from “ground-breaking” amateur radio technology known as a weak signal propagation reporter, or WSPR.

“This technology has been developed over the past three years and the results represent credible new evidence,” the researchers said.

“It aligns with analyses by Boeing (...) and drift analyses by University of Western Australia of debris recovered around the Indian Ocean.”

The researchers explained when an aircraft, like MH370, flies through an amateur radio signal, or WSPR link, the signals are disturbed. These records are stored in a global database.

The researchers used 125 of these disturbances to track the aircraft's path for more than six hours following the planes last radio contacts at about 6pm. Combined with data from Boeing and Inmarsat satellites, and using drift analysis data, the same crash site was located.

“Together with [the data], a comprehensive picture of the final hours of flight MH370 can be collated,” the researchers said.

“Flight MH370 was diverted into the Indian Ocean where it crashed of fuel exhaustion... at some point after the last signal after midnight.”

Geoffrey Thomas, Airline Ratings Editor spoke to Australian radio station 6PR, explaining that the research used technology and “complex mathematics”.

“Amateur radio operators, when they turn their sets on, their signals go around the world; those signals have been stored since 2009, and it’s possible to track an airplane by the disturbance it makes when it goes through those radio waves,” Thomas said.

“They've been able to go back in time to 2014, March 8, from the last known position of MH370, and through some very, very complex mathematics and science they are able to recreate the flight path of the aircraft and come to a position which is 1500 kilometres west of Perth in an area which has been partially searched before but about half of it has not.”

Thomas said that based on previous aircraft failures, should MH370 be found, the airplane will remain in its place.

“I believe, from past cases, they'll leave it where it is. It would be very difficult to get it off the ocean.”

MH370 departed Malaysia just before 5pm with 227 passengers and 12 crew onboard. Two of the passengers were from New Zealand.

At roughly 5:20pm, Captain Zahrie Shah responded to a Malaysian air traffic controller, saying: “...contact Ho Chi Minh (...) good night.” The plane then went dark, diverted from the intended flight path and is believed to have run out of fuel 7.5 hours later, crashing into the ocean.

How to Renew Your License Online

The ARRL VEC provides instructions on how to file an amateur radio license renewal application and make a payment via the FCC's new COMmission REgistration System (CORES).

Before you renew your license, you will need to create a new FCC CORES username account, and then link your FCC Registration Number (FRN) to your new account. As of April 2022, the FCC charges a \$35 fee to renew amateur radio licenses. You must create the new account to pay the fee. Follow the steps below to create a new CORES account, and then after you complete the license renewal application, the License Manager system will automatically direct you to the CORES system. Log in and pay the fee.

Setting Up Your New FCC CORES Username Account

1 If you haven't already created a CORES account, you must register a username (your email address) and a password (see [a] and [b]). Visit the FCC CORES web page at <https://apps.fcc.gov/core/userLogin.do> to set up your account. If you don't know your FRN, you may search for it on that web page (see [c]). You will need your FRN for the next step.



2 Log in to your new account and click the first option, ASSOCIATE USERNAME TO FRN.



3 Enter your FRN and comment. An example of a comment is "Associating FRN" (see [d]).

4 Click CONTINUE.

5 If you know the password for your FRN, enter it now. This password will likely be different from the one used for your username account. If you do not know your FRN password, click the CONTACT TECH SUPPORT link, which is next to the FORGOT YOUR PASSWORD? option and underneath the SUBMIT button. **Please do not try more than twice, as you will be locked out of your account after repeated failed attempts.** You can also call the FCC at 877-480-3201 to have them reset your password for you.



6 Once you have completed these steps and your FRN has been associated with your username, the site should bring you back to the main menu. **Log out.**

Apply for License Renewal

7 File your renewal application by using the FCC ULS License Manager system at <https://wireless2.fcc.gov/UlsEntry/licManager/login.jsp>. License renewals are allowed at 90 days or less before the license expires, as well as after the license has expired while still being within the 2-year grace period.

8 When you are logged in to the FCC License Manager system and your license is in the renewal window, a box will be displayed stating **THIS LICENSE IS ELIGIBLE FOR RENEWAL**. Click the **BEGIN THE RENEWAL PROCESS** link (see [e]). Follow the steps of the FCC renewal and payment process to pay the \$35 application fee. Print or save the payment confirmation page, and then log out. You (the license holder) will receive an email from the FCC with a link to your official license, or in rare instances, an explanation for why the renewal application was dismissed or denied. The license link will be valid for 30 days. Print out the license or download the PDF of the license to your computer.



Get More Help in the Digital Edition

Access the digital edition of *QST* (www.arrl.org/qst) to watch ARRL VEC Manager Maria Somma, AB1FM, take the steps outlined here to renew her license.



Additional FCC ULS registration and payment instructions are located on the FCC Registration Help web page at <https://apps.fcc.gov/cores/publicHome.do?help=true&csrfToken>. Visit the ARRL FCC Application Fee web page at www.arrl.org/fcc-application-fee for more information about the \$35 fee.

For assistance, call the FCC at 877-480-3201 on Monday – Friday at 8:00 AM – 6:00 PM ET. Submit a help request or reset your password on the FCC's Available Support Services web page at www.fcc.gov/wireless/available-support-services.

CLUB NEWS

Ham Shack Photos

STILL WANTED—STILL NEEDED

Send me your Ham Shack Photos soon!

Submit to: k7hcp@arrl.net or w7su@arrl.net or 801.389.0690

CLUB NEWS

Unique QSL Cards

STILL WANTED—STILL NEEDED

Send me your QSL Card Photos soon!

Submit to: k7hcp@arrl.net or w7su@arrl.net or 801.389.0690

CONTRIBUTING EDITOR SUBMISSIONS

GUEST CONTRIBUTION

By KB6NU



Learning about radio does matter

By Dan Romanchik, KB6NU

I recently received an email from someone who reads my blog that struck a chord with me. He wrote:

“I’ve been a ham for decades, operate all modes (but mostly CW), and do a lot of Parks on the Air (POTA). I also spend a lot of time recruiting people into the ham radio hobby and mentoring new hams. It’s that last focus that prompts this question.

“For a variety of reasons that I can’t put on my finger on, it seems like more and more hams don’t really care about how radios or antennas work, and don’t want to invest much time or effort into learning such things. They just want to turn it on and use it. How it works, and what’s going on inside of the box, aren’t important.

“For example, I know of one guy—a General-class licensee—who decided his top-of-the-line Yaesu HT was ‘defective’ because whenever he pressed the push-to-talk switch on one of the repeater frequencies, the radio transmitted on a different frequency. Ugh. Another guy I know thought that his hamstick wouldn’t tune because the wire coil was installed upside down. As you’d guess, the hamstick tuned and worked just fine.

“Some people say that we should get hung up on this. Get new hams into the hobby and they’ll learn as they go on. Except that doesn’t seem to be happening, at least not consistently. Even very experienced, highly educated hams can be clueless on very simple, fundamental radio concepts.

“So, here’s the question: does any of this matter? I don’t know how my microwave oven works, and I don’t need to, and I don’t want to. All I want to do is push a button. So maybe it’s perfectly fine that hams don’t know about radio technology and we should stop pretending that any of this matters. Put ‘em through a ‘ham cram’ and get them on the air. Or maybe amateur radio transceivers are different than microwave ovens and it does matter. I don’t know. I go back and forth on this and don’t really have a clear assessment in my mind.

“Anyway, since this seems like the kind of thing you’ve already thought about, I wonder what you make of all this. If you’re sitting around with nothing to do, I’d be curious to know what you think.”

Yes, learning about radio does matter

This struck a chord with me because I teach ‘ham cram’ classes, and I often encounter people who think this way. They just want to push buttons and talk on the radio. They say, “I’m only going to use it when I go off-roading with friends,” or “I’m only going to use it when my CERT team is activated.”

I always ask them what they’re going to do when something goes wrong (and we know that at some point, something is going to wrong). I tell them that without some basic knowledge of how radios and antennas work, they aren’t going to be able to fix problems or work around them, and if they can’t do that, they’re not going to be very effective communicators and their experience is going to be very frustrating. Not only that, I explain that they’ll have a lot more fun with ham radio if they understand how the technology works.

So, the question is how to get these people to be more curious about radio technology and how to encourage them to learn more. Being insulting or negative isn’t the way to do it. I hope, for example, that when the guy complained about his Yaesu HT, that someone patiently explained how repeaters work. Sure, he should have known that already, but belittling him for not knowing this would only do more harm than good.

I don't think that you can fault people for not knowing things, but you can fault them for not wanting to learn things. There's a lot to learn in ham radio, and you can't learn it all before you get a license. In fact, I'd argue that most things you can only learn after you get a license and start doing things.

Having said all that, our challenge is to make ham radio a place where those that want to learn things can thrive. I think that we're doing better at that. Look at all the YouTube channels where you can learn about just about anything that ham radio has to offer. The ARRL is getting in on this as well, with its "Learning Center."

I'd say not to worry about those who don't want to invest the time and effort. They're not going to be hams for very long. They're going to get frustrated when they can't get things to work and drift off to something else. Let's concentrate those who are curious and able and willing to invest the time and effort and make good hams out of them.

Dan Romanchik, KB6NU, is the author of the KB6NU amateur radio blog (KB6NU.Com), the "No Nonsense" amateur radio license study guides (<https://KB6NU.Com/study-guides/>), and often appears on the ICQPodcast (<https://icqpodcast.com>). When he's not writing about amateur radio, he tinkers with electronics projects and operates POTA and works CW on the HF bands.

GUEST CONTRIBUTION

WANTED

Contributing Editor submissions always welcomed!



Volunteer Monitor Program Report

The Volunteer Monitor (VM) Program is a joint initiative between ARRL and the FCC to enhance compliance in the Amateur Radio Service. This is the July 2023 activity report of the VM Program.

◆ Advisory notices were issued to Technician-class operators in Pennsylvania and Colorado for FT8 operation on 20 and 17 meters. Technicians have no data privileges on those bands.

◆ An advisory notice was issued to an operator in Florida for obscenities and deliberate interference on 7.205 MHz.

◆ An advisory notice was issued to an operator in West Virginia for operation consisting of interference and improperly wide signals on five separate dates. The operator was reminded that FCC rule 97.307(a) requires that no amateur station use more bandwidth than necessary for the information rate and emission type being transmitted.

◆ An operator in Massachusetts received an advisory notice for operation too close to the band edge, 14.100.1 MHz, resulting in out-of-band operation.

◆ An operator in California received an advisory notice for deliberate interference and “holding” a frequency on 20 meters.

◆ The case of a Technician-class licensee in Tennessee continually ignoring advisory notices about FT8 operation on non-Technician frequencies is in preparation for FCC referral, which may include forfeiture (fine) or license revocation.

◆ Good operator commendations were issued to operators in Texas and Indiana for exemplary operation and assistance to new licensees on 7.188 MHz, and to an operator in Arkansas for displaying exceptional skills and courtesy during his June VOTA activation.

◆ The totals for VM monitoring during June 2023 were 2,014 hours on HF frequencies, and 1,919 hours on VHF frequencies and above, for a total of 3,933 hours. — *Thanks to Volunteer Program Administrator Riley Hollingsworth, K4ZDH*



ARRL Files Comments Against “Seriously Flawed” HF Rules Petition 08/02/2023

[ARRL The National Association for Amateur Radio](#)®, as part of its mission to protect Amateur Radio, has [filed comments](#) against a proposal that would introduce high-power digital communications to the shortwave spectrum that in many instances is immediately adjacent to the Amateur HF bands.

The “Shortwave Modernization Coalition” (SMC), which represents certain high-frequency stock trading interests, filed [the petition](#) with the Federal Communications Commission (FCC). **(Previous coverage can be found on [ARRL News.](#))** ARRL responded on behalf of its members and the 760,000 licensees of the Amateur Radio Service in the US.

The ARRL Laboratory performed a detailed technical analysis over several months to determine if the proposed rules would affect operations on the bands allocated to Radio Amateurs that are inter-mixed with the Part 90 bands in the spectrum in question.

ARRL’s analysis determined that, if the proposed rules are adopted, the new operations inevitably will cause significant harmful interference to many users of adjacent and nearby spectrum, including Amateur Radio licensees. Ed Hare, W1RFI, a 37-year veteran of the ARRL Lab and internationally recognized expert on radio frequency interference, was the principal investigator on the study. Hare concluded the petition should not be granted. “This petition seeks to put 50 kHz wide, 20,000-watt signals immediately next to seven different amateur bands with weaker protections against interference than required in other services,” said Hare.

In its formal opposition, ARRL stated, “That destructive interference would result if operations commenced using anything close to the proposed maximum levels.”

ARRL’s filed comments highlight flawed analysis and incomplete data submitted by the petitioners. It noted the petitioners “...significantly understate the harmful interference that is not just likely, but certain, if the rules proposed by SMC are adopted as proposed. It is noteworthy that SMC’s proposed rules would provide less protection than the much-lower power amateur radio transmitters are required to provide Part 90 receivers.” ARRL’s opposition also noted that there was no reported tests conducted with Amateur or other affected stations, but referenced a spectrum capture in the Comments filed with the Dayton Group that showed actual interference into the Amateur 20-meter band from one of the High Frequency Trading experimental stations.

Part 90 HF rules currently authorize a maximum signal bandwidth equal to a voice communications channel, at up to 1000 W peak envelope power (PEP). The petition seeks multiplication of signal width, greater transmitted power, and weaker rules that protect users of adjacent spectrum. ARRL’s comments expose the likely fallout:

“Incredibly, notwithstanding the significant increase in potential interference that would result from using digital schemes with 50 kHz bandwidths and 20,000 watts of power, SMC also proposes to substantially lessen the protections required to protect adjacent and neighboring licensees. SMC proposes [out-of-band emissions] limits that offer less protection than the existing Part 90 limits and would actually permit no attenuation (0 dB) at the edge of adjacent allocations, many of which are bands allocated to and heavily used in the Amateur Radio Service. Consistent with lessening protections while increasing the potential for harmful interference, SMC also proposes a lower limit for spurious emissions. SMC would reduce the existing protection of -73 dB for the applicable 1000-watt power limit to just -50 dB protection for their proposed 20,000-watt limit. Due to the much wider 50 kHz proposed bandwidth, the resulting interference would penetrate deep into the adjacent Amateur bands.”

The proposal has been assigned FCC Docket No. RM-11953. While the period for commenting on the petition has now closed, replies to comments in the record may now be submitted.

Hundreds of licensed Radio Amateurs filed comments in the Docket, expressing overwhelming opposition to the proposal. Those interested may read ARRL’s full comments and the results of the technical analysis, which are included in the filing. “If granted as written, this would be devastating to Amateur operation for many tens of kHz into our bands,” said Hare.

O'bay Swap

(repeat)

SWAP ITEM # 225

FOR SALE: Misc Antenna: equipment, parts, cables, etc. (donated to OARC)

REFER TO CHART: Donation Inventory

ASKING PRICE: \$ make offer \$ (as a donation to your club)

CONTACT: Gene Morgan WB7RLX, 801-540-4907, ee_morgan@outlook.com

<http://OgdenARC.org/swap.html>

O'bay Swap

SWAP ITEMS WANTED

<http://OgdenARC.org/swap.html>

CLUB REFERENCE MATERIAL

OARC Repeater Sites

Promontory Point
Elevation: ?
-146.920 (123 Hz)
-448.775 (123 Hz)

Powder Mountain
Elevation: ?
-145.470 (123 Hz)
-447.775 (123 Hz)

Marriott Slaterville
Elevation: 4500 ft
-146.820 (123 Hz)
-448.575 (100 Hz)

Mount Ogden
Elevation: 9572 ft
-146.900 (DCS 125)
-448.600 (123 Hz)



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.

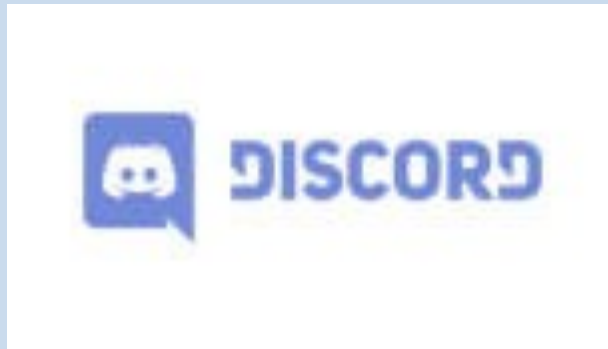
The cost is **\$17.00** each. The badge comes with a “MAGNETIC” clip. Badge includes your Call Sign in large letters and your First Name in a somewhat smaller font in white lettering on a pitch black background with the club logo. See example below.



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 Discord Page



Did you know that OARC has a Discord page ?

What is a Discord Page you ask?

It is OARC's new discussion group site.

Just click on the icon on the bottom of the club website home page to join and visit OARC's ongoing discussion threads. Check it out!

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. Check it out!

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. Check it out!

ANNOUNCEMENTS

Next Club Meeting:

3rd Saturday of each Month

The Ogden Amateur Radio Club meetings are usually held on the **3rd 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

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 (Liaison)

morrisonri@msn.com (801-791-9364)

open (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.

AREA CLUB MEETINGS & WEB SITES

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

Club Web Site

Be sure to visit our club web site.

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 repeat-er 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.

OARC REPEATERS			
(*) 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	Marriott UT
448.575-	OARC	100.0	Marriott UT (no autopatch)

FREQ/Offset	TONE	LOCATION	OWNER
145.250 -	PL 123.0	Weber State Univ	WSC
145.290 -	PL 123.0	Brigham City	GSARC
145.330 -	PL 100.0	BYU (Provo)	BYUarc
145.430 -	PL 123.0	Brigham City	GSARC
145.470 -	PL 123.0	Powder Mountain	WCSO
145.490 -	PL 100.0	Promontory Point	K7JL
146.620 -	PL none	Farnsworth Peak	UARC
146.640 -	PL none	Logan	BARC
146.720 -	PL 103.5	Mount Logan	BARC
146.760 -	PL none	Lake Mountain	UARC
146.780 -	PL 100.0	Lake Mountain	UVARC
146.920 -	PL 123.0	Promontory Point	WCSO
147.040 +	PL 123.0	Antelope Island	DCARC
147.100 +	PL 123.0	Morgan County	KB7ZCL
147.120 +	PL 100.0	Farnsworth Peak	UARC
147.220 +	PL 123.0	Brigham City	GSARC
147.260 +	PL 103.5	Promontory Point	BARC
147.360 +	PL 100.0	Lewis Peak	Summit Co ARC
447.200 -	PL 127.3	Antelope Island	DCARC
447.225 -	PL 100.0	Malad Idaho	Malad Repeater
447.775 -	PL 123.0	Powder Mountain	WCSO
448.300 -	PL 123.0	Brigham City	GSARC
448.775 -	PL 123.0	Promontory Point	WCSO
448.825 -	PL 123.0	Clearfield City	IRLP Node 4654
449.100 -	PL 146.2	Farnsworth Peak	UARC
449.250-	PL 123.0	Weber State Univ	WSC
449.425 -	PL 100.0	Nelson Peak	IRLP - Western Refl
449.500 -	PL 100.0	Farnsworth Peak	UARC
449.625 -	PL 103.5	Mount Logan	BARC
449.925 -	PL 100.0	North Salt Lake	DCARC
449.950 -	PL 123.0	Clearfield City	IRLP Node 3876
ATV - wb7fid	TV Ch 58	Farnsworth Peak	UARC - Utah ATV

LOCAL AREA NETS

DATE	CLUB	FREQ
Daily @ 12:30 PM mt	Utah Beehive net HF	7.272 Mhz HF LSB
Daily @ 07:30 PM mt	Utah Code net HF	3.570 Mhz HF CW
Daily @ 02:00 UTC	Utah Farm net HF	3.937 Mhz HF LSB
Sunday @ 8:45 AM	Ogden Old Timers HF net	7.193 Mhz HF LSB
Sunday @ 7:15 PM	Weber/Davis ERC	146.820 - 123.0 (ERC training net)
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 2-meter USB
Tuesday @ 6:30 PM	OARC—Ham & Eggs Net	448.600 -123.0
Tuesday @ 8:00 PM	Weber ARES	448.600 - 123.0
Tuesday @ 8:00 PM	DCARC TECH Net	147.040 + 123.0
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	CSENG	145.770 simplex
Wednesday @ 9:00 PM	No. Utah 10m HF net	28.313 Mhz HF USB
Wednesday @ 9:00 PM	6-meter SSB net	50.125 Mhz 6-meter USB
Thursday @ 6:30 PM	OARC - 10 Meter Net	28.375 MHz USB (all hams invited)
Thursday @ 7:30 PM	Davis Co ARES	147.420 = simplex & 449.925 -100.0
Thursday @ 8:00 PM	Weber State ARC	146.820 - 123.0 (coming soon)
Thursday @ 8:00PM (3rd Thurs)	State RACES VHF/IRLP	145.490 - 123.0, 146.680 - 123.0
Thursday @ 9:00PM	Wasatch Back Net	147.360 + 100.0
Saturday @ 8:00AM mt (3rd Sat)	RACES State HF	3.920 Mhz HF LSB
Saturday @ 11:00AM mst	QCWA net HF	7.272 Mhz HF LSB

73 de W7SU

www.OgdenARC.org

w7su@arrl.net

PO Box 3353 Ogden UT 84409