WATTS NEWS

The Best of Amateur Radio

OARC e-Magazine

www.OgdenArc.org

MARCH/APRIL 2018

Next Club Meeting/Activity

Riverdale Fire Station

Jason Miles KE7IET

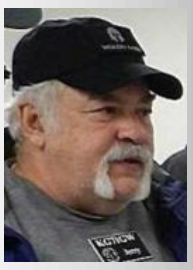
President

Mike Taylor KE7NQH

Vice President

Ceva Cottrell KE7IEV

Secretary



Jerry Cottrell KG7IGW

Treasurer

Gil Leonard NG7IL

Program Director

Dave Mamanakis KD7GR

Activity Director

Val Campbell K7HCP

Webmaster/NL Editor

PREVIOUS CLUB MEETING/ACTIVITY

February Meeting

3rd Saturday 17 February 2018

9:00 am

Riverdale Fire Station

"Get to Know your Fellow Ham"

Bring your favorite project to …

Show & Tell

NEXT CLUB MEETING/ACTIVITY

March Meeting

3rd Saturday 17 March 2018 @ 9:00 am

Riverdale Fire Station

Rick Morrison—W7RIK

Antenna Analyzers

April Meeting

3rd Saturday 21 April 2018 @ 9:00 am

Riverdale Fire Station

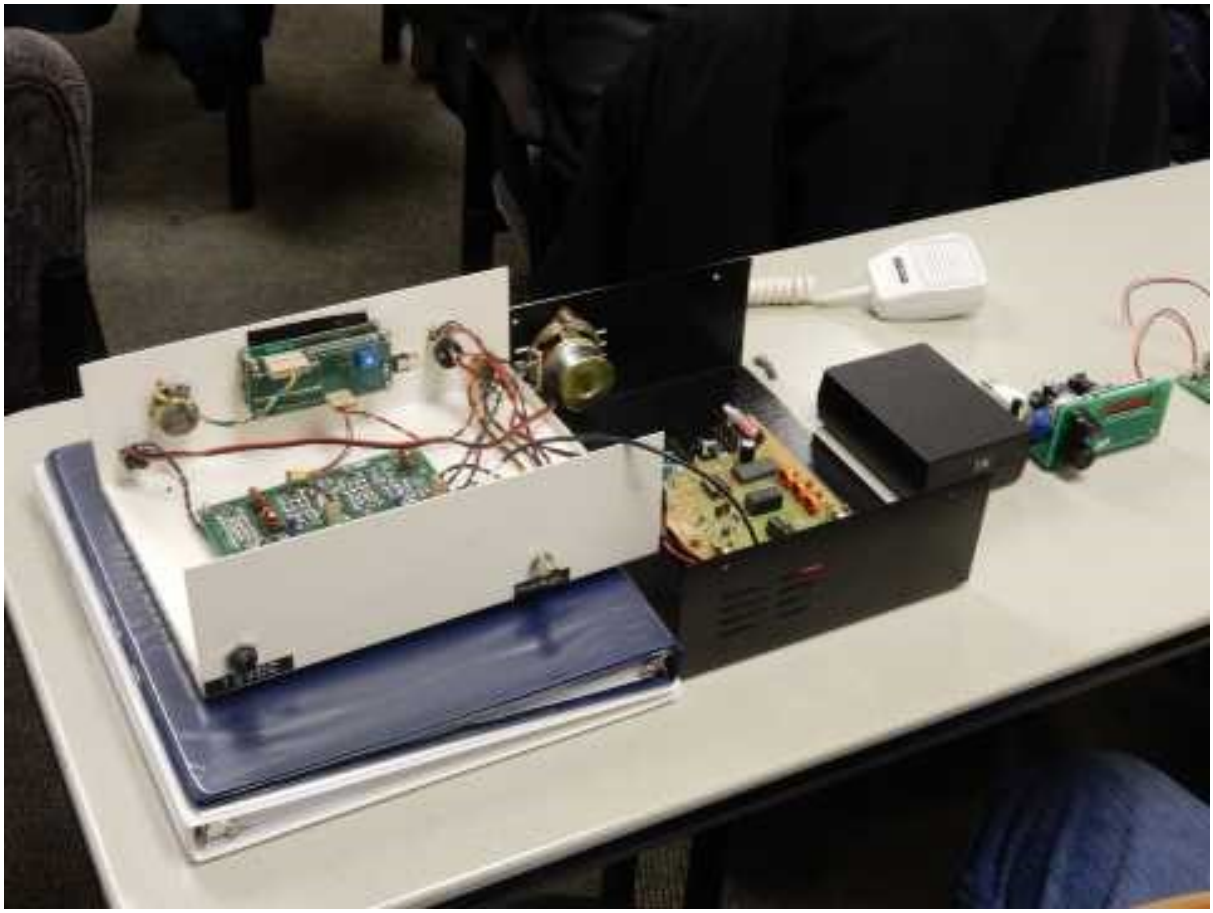
TBA

TBA

PREVIOUS MEETINGS PICS

Club Photographer … Ceva Cottrell KE7IEV


Rcvr



From the Shack of KE7IET

Jason Miles KE7IET

We are fortunate that the Ogden Amateur Radio Club is a club that does things. I think most of the clubs around us are, too. I've heard stories of clubs whose sole purpose in having meetings is to conduct the club's business and go home. I'm glad we have speakers and presentations. We also have a series of activities through the spring and summer, and I'd like to write about two of them.

Golden Spike Special Event Station

The transcontinental railroad was completed on May 10, 1869. Every 10th of May, the Golden Spike National Historic Site has a reenactment of the ceremony. The Ogden Amateur Radio Club participates by sponsoring a special event station at the National Historic Site. What is a special event? For significant or historical dates or locations, amateur radio operators sometimes celebrate the occasion or location by making radio contacts. During these commemorations, amateurs are allowed to reserve and use 1x1 call signs. We reserve the call sign W7G. Special event operators also often provide unique QSL cards or certificates for those who request them.

Our club will operate the special event station for two days in May. (It will likely be the 9th and 10th, but keep an eye on the website for details and updates.) On the first morning, we set up the radio and antenna, then operate in two-hour shifts until late afternoon. On the second day, we operate from morning until late afternoon, then take down the antenna and radio.

Why do we do this? There are a number of reasons:

- The completion of the transcontinental railroad is a part of history unique to Utah, and it's an opportunity to celebrate that history and support the National Park Service. They have been very kind to let us use their facilities on what are likely their busiest days of the year.
- The event lets technician-class licensees get a taste of assembling and operating an HF station. We use frequency and mode privileges normally limited to general- and extra-class licensees, but technicians are allowed to participate if a general or extra is there to be control operator. If you're curious about HF, but you're not quite sure if it's worth the effort of upgrading your license, come try the special event.
- We give other amateurs around the country (and, if we're lucky, around the world) the chance to celebrate the Golden Spike anniversary with us. Sometimes, the locomotives even blow their whistles as we're transmitting, and our contacts get to hear them.
- We set up the station in a public bowery with a lot of people walking by. It gives us a chance to introduce amateur radio to others.

By the way, if you're interesting in contacting other special event stations, the American Radio Relay League (ARRL) publishes a list of special events each month in QST magazine. Just look for the article in the table of contents.

Field Day

Once per year, ARRL sponsors a 24-hour operating event called Field Day. This year's field day will run from noon (Mountain Daylight Time) on Saturday, June 23rd to noon on Sunday, June 24th. The goal of the event is to make contact with as many other amateur stations as possible. A point is awarded for each voice contact, and two points are awarded for each CW (Morse code) and digital contact. Additionally, bonus points are awarded for a variety of other efforts and activities.

Field Day is not a normal contest. Points are tallied, but the real point is to get people operating. For our club, Field Day is as much a social event as anything. We gather around 9 a.m. on Saturday to get the antennas and radios set up. We start operating at noon, with special emphasis on getting as many individuals operating as we can. We like to invite newcomers to talk on the radio. In the evening, we have a family pot-luck dinner. Those who would like to continue operating after dinner and through the night are welcome. As previously mentioned, the event ends at noon on Sunday, at which point the radios and antennas are put away.

As with the Golden Spike event, the idea of Field Day is to get people on the radio. This is another good opportunity for technicians to try operating HF. If you've never done it before, there is usually someone available to walk you through the process. Additionally, there are hundreds of other stations on the air, so there is plenty of opportunity to make contact.

I'm writing about the Golden Spike event and about Field Day because they succeed or fail based on the participation we get. We need volunteers in order for these events to work. If you don't feel qualified, that's OK. We all felt that way at one time. Many in the club are very experienced and willing to help, and we are fortunate to be in that position. Additionally, it's OK to make mistakes. Remember that we are all amateurs; nobody will dock your pay for an honest mistake.

We will pass around a sign-up sheet for the Golden Spike event during March's meeting. I encourage you to volunteer.

73 de Jason Miles KE7IET

OARC COMING EVENTS

TBA …

OARC Golden Spike Special Event

Possible Dates
9, 10, 11 & 12 May 2018

7QP - 7th Call Area QSO Party

05 & 06 May 2018

Next VE Test Session

1st Wednesday 06 June 2018 @ 6:00 PM

CLUB NEWS

HAM and EGGS Net

Tuesday Evenings at 7:00 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

CLUB NEWS

Congrats to the follow who tested at the Weber Co February VE Test Session

Kellogg, Stevan	KG7ZTE	Extra
McNamara, Roger	KI7JVI	General
Sorensen, Morgan	KI7UFY	General
Kelsey, Dan	KI7UFR	Technician
Johnson, Zach	KI7UFZ	Technician
Lloyd, Christopher	KI7UFP	Technician
McNamara, Tyler	KI7UFW	Technician
Phipps, Danielle	KI7UFU	Technician
Primm, Lee	KI7UFM	Technician
Pronschinske, Kenneth	KI7UFN	Technician
Rasmussen, Dylan	KI7UFL	Technician
Rizzi, Zach	KI7UFS	Technician
Spackman, Susie	KI7UFK	Technician
Tams, Kevin	KI7UFT	Technician
Tams, Kory	KI7UFV	Technician
Tams, Shelby	KI7UFX	Technician
Weimer, Timothy	KI7UFQ	Technician

HOBBY NEWS

Utah DCC
Utah Digital Communications Conference

Early Bird Registration

Join us for the 2nd annual Utah Digital Communications Conference being held March 24th, 2018 in Sandy, Utah. This conference focuses on the amateur radio hobby digital side of the house. Great topics are planned this year including:

- Amateur radio satellite communications
- DMR - How to get on the network
- DMR - Creating your first codeplug
- Design your own printed circuit board
- MESH/AREDN - Hands On Getting Started
- MESH/AREDN - Advanced topics
- Computer Control of your radio's via Linux/Raspberry Pi
- Cyber Security for amateur radio devices
- LoRa Radio - for internet of things
- 3D Printing for amateur radio goboxes, antennas, and around the shack
- Digital modes for field day

*More topics coming as presenter proposals are finalized

Register before February 24th to get early bird pricing and eligible for early bird prize drawing. You can register online at utah-dcc.org.

Register Today

24 March 2018

www.utah-dcc.org

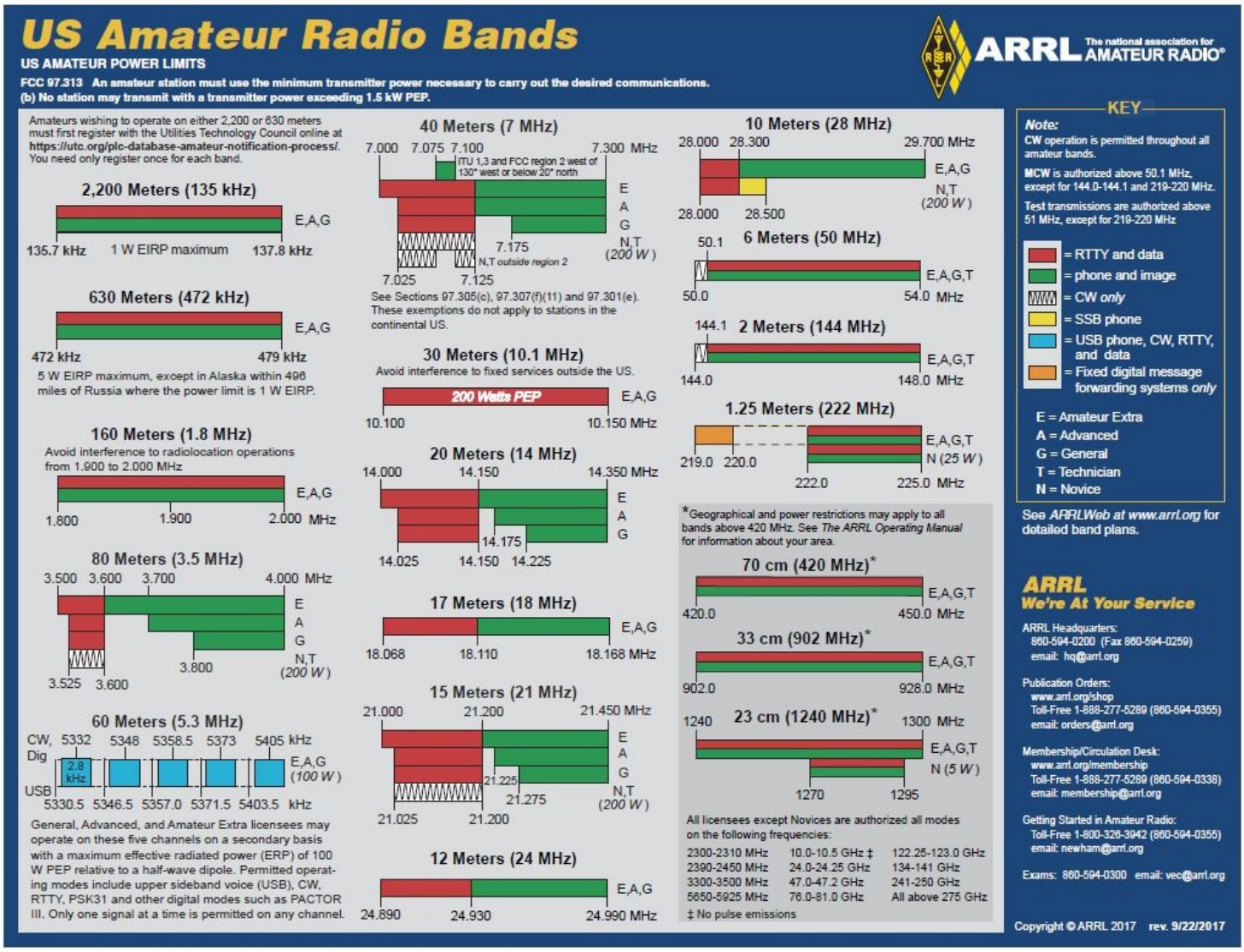
HOBBY NEWS

15 September 2018

www.wyominghamcon.org

HOBBY NEWS

2017 Ham Band Chart



Download your own copy (.PDF) from the club website …

"Ham Links" page.

ARRL Requests Expanded HF Privileges for Technician Licensees

ARRL has asked the FCC to expand HF privileges for Technician licensees to include limited phone privileges on 75, 40, and 15 meters, plus RTTY and digital mode privileges on 80, 40, 15, and 10 meters. The FCC has not yet invited public comment on the proposals, which stem from recommendations put forth by the ARRL Board of Directors' Entry-Level License Committee, which explored various initiatives and gauged member opinions in 2016 and 2017.

"This action will enhance the available license operating privileges in what has become the principal entry-level license class in the Amateur Service," ARRL said in its *Petition*. "It will attract more newcomers to Amateur Radio, it will result in increased retention of licensees who hold Technician Class licenses, and it will provide an improved incentive for entry-level licensees to increase technical self-training and pursue higher license class achievement and development of communications skills."

Specifically, ARRL proposes to provide Technician licensees, present and future, with phone privileges at 3.900 to 4.000 MHz, 7.225 to 7.300 MHz, and 21.350 to 21.450 MHz, plus RTTY and digital privileges in current Technician allocations on 80, 40, 15, and 10 meters. The ARRL petition points out the explosion in popularity of various digital modes over the past 2 decades. Under the ARRL plan, the maximum HF power level for Technician operators would remain at 200 W PEP. The few remaining Novice licensees would gain no new privileges under the League's proposal.

ARRL said its proposal is critical to developing improved operating skills, increasing emergency communication participation, improving technical self-training, and boosting overall growth in the Amateur Service, which has remained nearly inert at about 1% per year.

Continued...

ARRL's petition points to the need for compelling incentives not only to become a radio amateur in the first place, but then to upgrade and further develop skills. Demographic and technological changes call for a "periodic rebalancing" between those two objectives, the League maintains.

"There has not been such a rebalancing in many years," ARRL said in its petition. "It is time to do that now." The FCC has not assessed entry-level operating privileges since 2005.

The Entry-Level License Committee offered very specific data- and survey-supported findings about growth in Amateur Radio and its place in the advanced technological demographic that includes individuals younger than 30. It received significant input from ARRL members via more than 8,000 survey responses.

"The Committee's analysis noted that today, Amateur Radio exists among many more modes of communication than it did half a century ago, or even 20 years ago," ARRL said in its petition.

Now numbering some 378,000, Technician licensees comprise more than one-half of the US Amateur Radio population. ARRL said that after 17 years' experience with the current Technician license as the gateway to Amateur Radio, it's urgent to make it more attractive to newcomers, in part to improve upon science, technology, engineering, and mathematics (STEM) education "that inescapably accompanies a healthy, growing Amateur Radio Service," ARRL asserted.

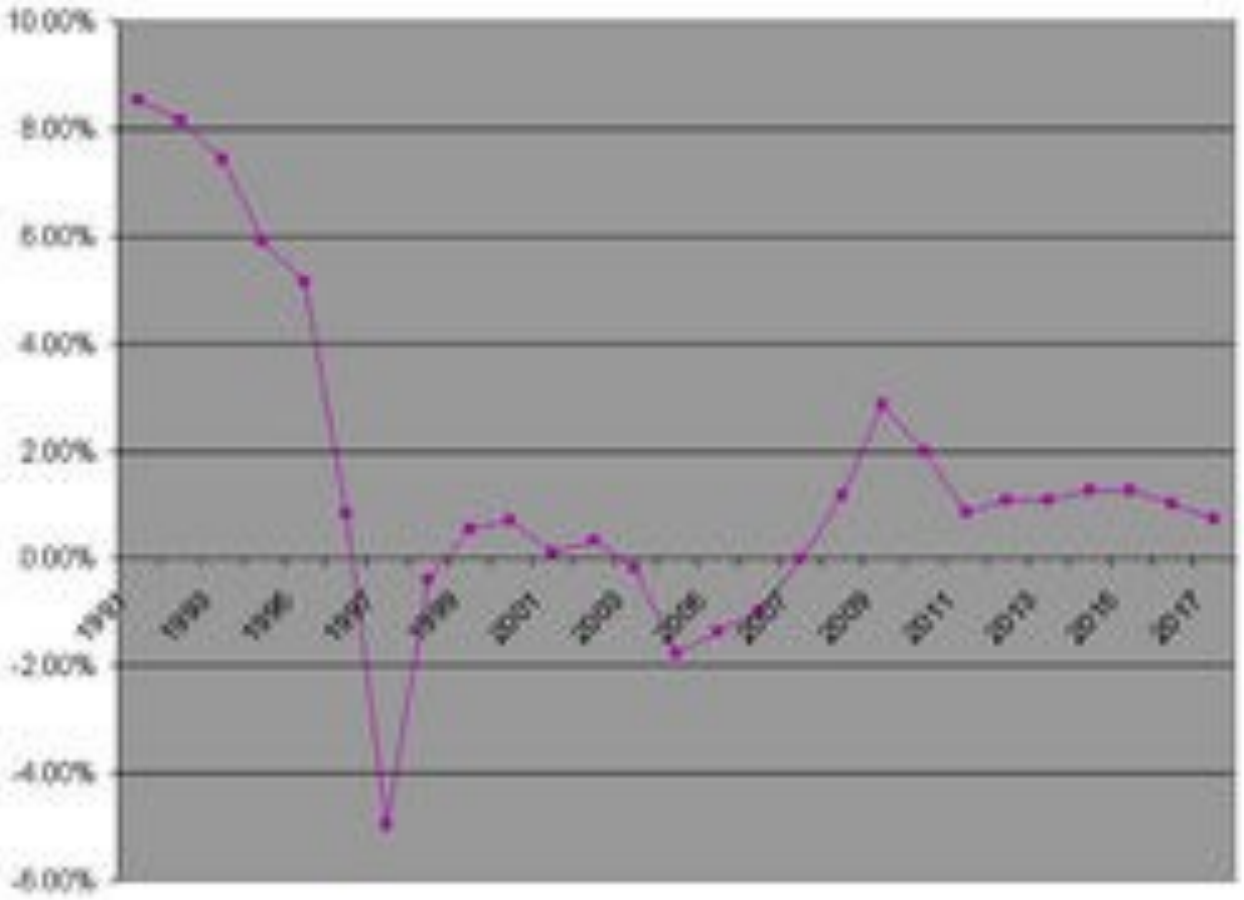
ARRL said its proposal is critical to developing improved operating skills, increasing emergency communication participation, improving technical self-training, and boosting overall growth in the Amateur Service, which has remained nearly inert at about 1% per year.

The Entry-Level License Committee determined that the current Technician class question pool already covers far more material than necessary for an entry-level exam to validate expanded privileges. ARRL told the FCC that it would continue to refine examination preparation and training materials aimed at STEM topics, increase outreach and recruitment, work with Amateur Radio clubs, and encourage educational institutions to utilize Amateur Radio in STEM and other experiential learning programs.

"ARRL requests that the Commission become a partner in this effort to promote Amateur Radio as a public benefit by making the very nominal changes proposed herein in the Technician Class license operating privileges," the petition concluded.

Continued...

ARRL
The national association for
AMATEUR RADIO



Overall net growth in the Amateur Service has remained sluggish at about 1% per year over the past few years.

GUEST ARTICLE

By Dan Romanchik, KB6NU

Which way does current really flow?

I was recently taken to task by one of my blog readers regarding my description of current flow in my *No Nonsense Technician Class License Study Guide*. He wrote:

> You casually say that current flows from Positive to Negative (with cool accompanying directional arrows), without any accompanying qualifying statement. Over the years I have looked at ALL the views on the subject. Positive to Negative is NOT what I was taught 48 years ago, and I have never seen a good reason to change my view.

In a subsequent email, he pointed me to a Nuts 'n Volts article, "Which Way Does Current Really Flow?" and asked my opinion. In the article, the author, who is a ham by the way, does a good job of explaining the various types of current flow.

I agree that in electronic circuits electrons flow from negative to positive, but it really doesn't matter. I agree with one the article's commenters who says,

> This is a silly argument. It's like comparing apples and oranges and challenging people to take sides.
>
> Electron flow is not current flow. Electron flow is easy to understand, an actual physical property, and a real help in understanding vacuum tube operation. But it falls apart when one needs to understand complex electronic systems.
>
> [Conventional] current flow is a mathematical abstraction. It is defined as a net flow of positive charge, irrespective of the polarity of the physical charge carriers — whether electrons, holes, positive or negative ions, or whatever.
>
> When looking at any circuit containing a resistance with a voltage across it, conventional current through that resistor says that the voltage drop occurs as the current through it meets resistance. On the other hand, in negative (electron) flow, a voltage INCREASE will correspond to the 'current' flow through it, clearly violating physical laws. Conventional current flow is consistent with the laws of physics and those of other engineering disciplines.
>
> You are correct that engineers, professors and scientists use conventional current flow. That is not because they are too obtuse to understand electron flow; I assure you they fully understand it. It is because in their world they have to solve more general problems involving complex math and science, and, again, conventional current flow is consistent with physical laws.

FEATURE ARTICLE

> It is unfortunate that electron flow and current flow are so often confused. They both have their place.

After reading that article, I thought I'd see what the ARRL Handbook has to say about current. In the 1963 edition, they don't mention electron flow at all. They have one diagram showing the direction of current flow in both series and parallel circuits, but the voltage source has no polarity. It's simply labelled "Source of E.M.F." Diagrams giving practical examples of series and parallel circuits do include a battery, and if the reader were to mash up the two diagrams, they would conclude that current flows from the positive terminal to the negative terminal.

The most recent edition of the Handbook that I have is the 2005 edition (it might be time to get another copy!). It says,

> Electrons move from the negative to the positive side of the voltage, or EMF, source. Conventional current has the opposite direction, from positive to negative. This comes from an arbitrary decision made by Benjamin Franklin in the 18th century. The conventional current direction is important in establishing the proper polarity sign for many electronics calculations. Conventional current is used in much of the technical literature. The arrows in schematic symbols point in the direction of conventional current, for example.

Having said all that, I really don't see that there's much of a controversy here. I did learn to think of current as conventional current in college, although it was mentioned that electrons actually flow in the opposite direction. Using the concept of conventional current has never seemed to hold me back. I've been able to design circuits and repair electronic equipment thinking that current flows from positive to negative.

Although it's a departure from my "no nonsense" style, I am thinking of including a sidebar, similar to the paragraph above from the 2005 Ha explaining the two ways of looking at current flow. What do you think?

When he's not trying to figure out which way current flows, Dan blogs about amateur radio at KB6NU.Com, teaches ham radio classes, and operates CW on the HF bands. Look for him on 30m, 40m, and 80m. You can email him at cwgeek@kb6nu.com.

Club Swapmeet

“SALE” or “WANTED” ITEMS NEEDED

OARC’s O-bay (On-Line Swap-Meet) items needed for the web site...

Visit http://www.ogdenarc.org/ then click on **Obay-Swap.**

FEATURED ITEMS

SWAP ITEM # 184

FOR SALE:

Kenwood TS-140s Transceiver

With factory Mike, Manual and Power Cord. In good shape.

PRICE: $150 - Firm, Cash

CONTACT: Larry Griffin AD7GL, ad7glqst@gmail.com, 801-388-1894

Club Swapmeet

“SALE” or “WANTED” ITEMS NEEDED

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Visit http://www.ogdenarc.org/ then click on **Obay-Swap.**

FEATURED ITEMS

SWAP ITEM # 177

FOR SALE: 60ft crank up tower. Aluma model T-60HN.

Includes 120V winch, tilt base plate, YAESU G-800SDX and G-500A rotators,

guy wires and house bracket.

PRICE: $4000

CONTACT: John N7WZ, 208 520 3537 (leave message)

SWAP ITEM # 176

FOR SALE: 40ft mobile air pushup tower.

Includes spare tire for trailer, leveling feet for trailer and guy straps with ground stakes.

Trailer requires 2 in ball.

PRICE: $3000

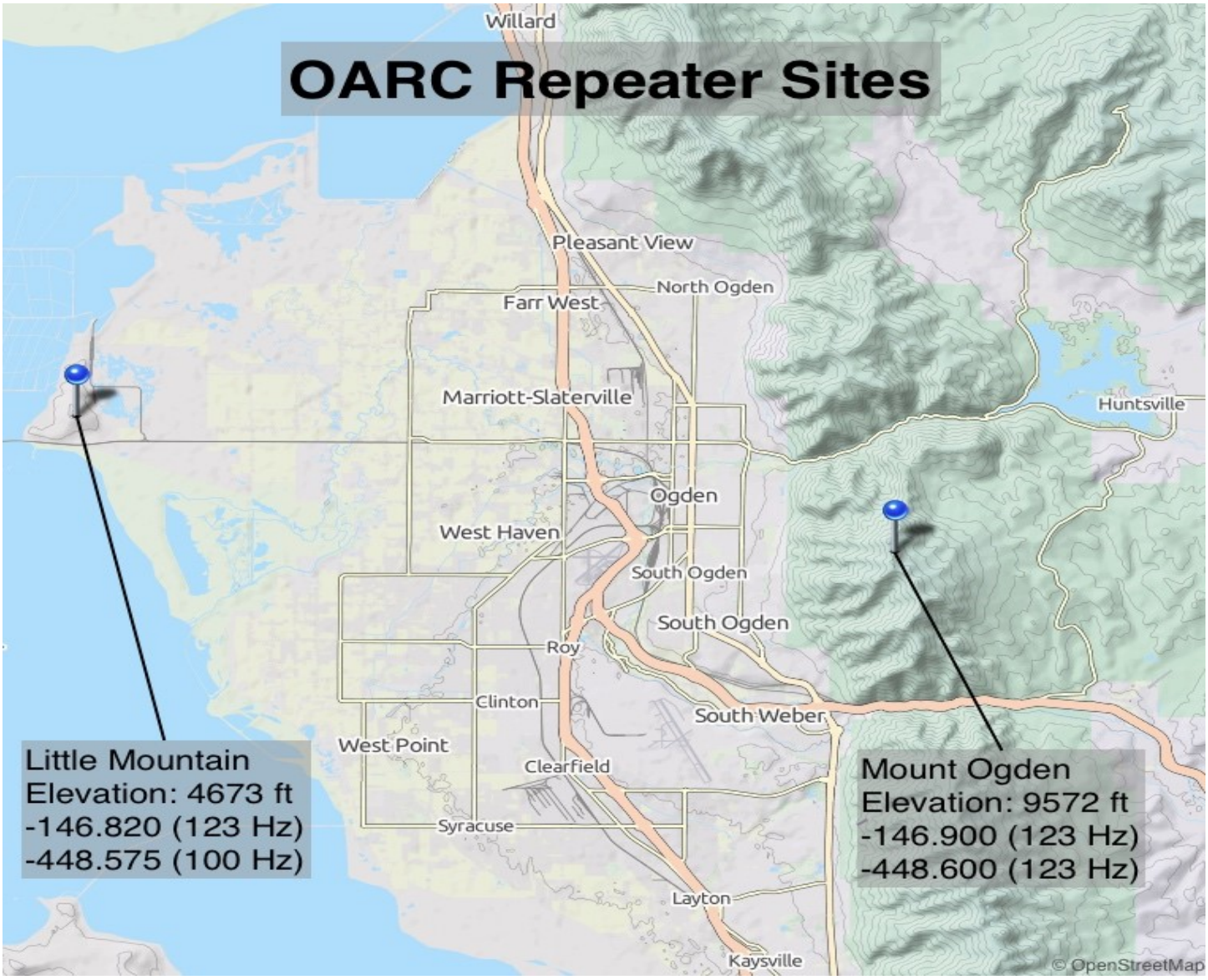
CONTACT: John N7WZ, 208 520 3537 (leave message)

NOTICE

FREE on-line, local swap - help spread the word

http://www.pocatelloarc.org/swap/

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 YAHOO GROUP

Did you know that OARC has a Yahoo Group?

We occasionally communicate with our OARC members via the Yahoo Group. Receive notices regarding upcoming club meetings and future e-newsletter release notices and much more like CHAT items of interest.

You can also send/receive notices to/from other group members yourself.

It's easy to sign up…

Just click on the 

icon at the top of the club website home page and then follow the Yahoo Group instructions to create yourself a user ID and password.

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 right hand panel of the club website home page to view recorded meetings preserved for your viewing pleasure.

Club Badges

OARC Club badges are available for all licensed club members.

The cost is $10.00 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 $10.00 in advance for each badge ordered and specify Call Sign and First Name. Contact webmaster or any club officer via email or contact the club treasurer at the next club meeting.

For additional information see club website left side menu and click “Join” to fill out a club application form to order a club badge.

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.

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

THANK YOU FOR YOUR SUPPORT

Join OARC

Renew your membership now!

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.
Joining is easy. Come to a club meeting or fill out an application form from the club website (click "Join" from the left side main menu). Instructions for mailing on the form.

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.

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 notices above

Talk-in: -146.82 (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

Weber County Sheriff Office
Training Room
712 W 12th Street Ogden Utah

Contact: VE Liaison:

Rick Morrison W7RIK (Liaison)

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

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

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

ARRL Field Day is held on the last full weekend of June every year.

Location may vary each year so watch this notice for details as time draws near.

See you there.

OARC REPEATERS

(*) Yaesu Fusion digital/FM compatible

FREQ	CLUB	TONE	LOCATION
146.900-	OARC (*)	122 DCS	Mt Ogden
448.600-	OARC (*)	123.0	Mt Ogden
146.820-	OARC (*) "Talk-in"	123.0	Little Mtn
448.575-	OARC	100.0	Little Mtn (w/auto patch)

OTHER AREA REPEATERS

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
146.640-	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
OgdenARC	ogdenarc.org	3rd Saturday 09:00 am	Check OARC web site …
WC Sheriff Comm-O		1st Saturday 10:00 am	Weber Co. Sheriff Complex West 12th Street Ogden Utah
Barc	barconline.org	2nd 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	2nd Saturday 10:00 am	Davis Co. Sheriff Complex Farmington Utah
NU Ares	home.comcast.net/ ~noutares/	3rd Wednesday 7:00 pm	Cache Co. Sheriff Office Logan Utah
Uarc	xmission.com /~uarc/	1st Thursday 7:30 pm	UofU EMC Bldg Room 101 Salt Lake City Utah
UVarc	https://uvarc.club	1st 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	3rd 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/	1st Tuesday 7:00 pm	Tooele County Courthouse Tooele Utah
WsuArc	https:groups.google.com/forum/#!forum/wsuarc	3rd 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 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 @ 7:30 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 @ 7:00 PM	OARC—Ham & Eggs Net	448.600 -123.0
Tuesday @ 8:00 PM	Weber ARES	448.600 - 123.0
Tuesday @ 8:00 PM	VHF Society Swap	147.120 + 100.0
Tuesday @ 9:00 PM	Bridgerland ARC	147.260 + 103.5
Wednesday @ 8:00 PM	GS ARC	145.290-, 145.430-, 448.300- (all 123.0)
Wednesday @ 8:30 PM	CSERG	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	Davis Co Elmers Net	147.040 + 123.0 New Hams
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 3rd 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 HF LSB 3rd Saturday – odd months only
Saturday @ 11:00AM mst	QCWA net HF	7.272 Mhz HF LSB

OARC OFFICERS

President: Jason Miles KE7IET

Vice Pres: Mike Taylor KE7NQH

Secretary: Ceva Cottrell KE7IEV

Treasurer: Jerry Cottrell KG7IGW

Program Director:
Gil Leonard NG7IL

Activity Director:
Dave Mamanakis KD7GR

"WATTS NEWS" e-Magazine

NL Editor: Val Campbell K7HCP

"OARC" web site

Webmaster: Val Campbell K7HCP

OTHER CLUB APPOINTMENTS

VE Liaison: Richard Morrison W7RIK
Jason Miles KE7IET (IT)

Repeater Engineers: Mike Fullmer KZ7O
Scott Willis KD7EKO

Photographer: Ceva Cottrell KE7IEV

QSL Manager: Ceva Cottrell KE7IEV

Historian/Librarian: Kent Gardner WA7AHY

Equipment Manager: Val Campbell K7HCP

Club Call Sign Trustee: Larry Griffin AD7GL

Advisors: Stan Sjol W0KP
Mike Fullmer KZ7O
Kent Gardner WA7AHY
Kim Owen KO7U
Larry Griffin AD7GL

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www.OgdenArc.org