



WATTS NEWS



The Best of Amateur Radio

OARC e-Magazine

www.OgdenArc.org

JANUARY 2016

Next Club Meeting/Activity

Meeting: Ham Radio & Satellites by Stan Sjol W0KP



Gil Leonard NG7IL
President



Jason Miles KE7IET
Vice President



Mike Taylor KE7NQH
Secretary



Jerry Cottrell KG7IGW
Treasurer



Pete Heisig WB6WGS
Program Director



Dave Mamanakis KD7GR
Activity Director



Val Campbell K7HCP
Webmaster/NL Editor

PREVIOUS CLUB MEETING

Activity: OARC Christmas Family Dinner

Date: 3rd Saturday 19 December 2015

Time: 5:00 PM

Location: Golden Corral Buffet Ogden

NEXT CLUB MEETING/ACTIVITY

Meeting: Ham Radio & Satellites

by Stan Sjol W0KP

Date: 3rd Saturday 16 January 2016

Time: 9:00 AM

Location: Riverdale Fire Station

PREVIOUS MEETINGS PICS

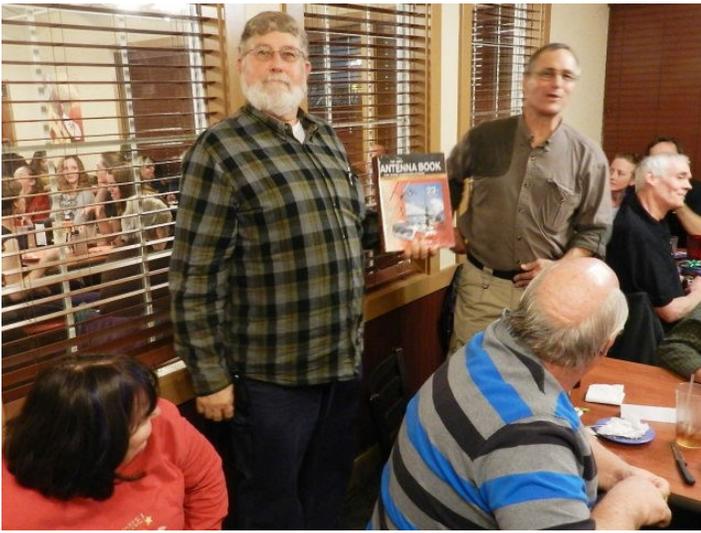
Photos by ... John Shupe K7DJ0











QRM from Gil



Gil Leonard NG7IL

Happy New Year 2016

I hope everyone enjoyed a safe and happy holiday season. We certainly received a white Christmas and New Year. A fine thing too, as we desperately need the water for our reservoirs.

The Christmas party was a great success. Everyone enjoyed themselves and there were a lot of great presents given away. Special thanks to Victoria for drawing the names from the hat. As the club grows, we have more flexibility is what we can do. I read the names and call signs but hopefully Val has the list of winners who received the antenna book, G5RV Jr antenna, atomic clock, and grand prize power supply. I know John got everyone's photo. I was even lucky enough to win one of the Yaesu Fusion shirts. I really hoped to have more shirts available but we were only able to get ten of them. Thank you to everyone who participated and brought something to share.

This year will be an exciting one. January will get us started right with a license class and club meeting. By the time you read this, Jason's, KE7IET, class will be underway and there will be a lot of new upgraded licenses in February. There are a few manuals available and you are welcome to participate in the remaining classes. See the club webpage for more information. HF privileges open the world to you and many other opportunities in our amazing hobby.

QRM from Gil

This month we feature Stan, WOKP, and satellite operations. There is a new satellite, AO85, in the air and is easily heard with just a handheld. He will tell us what we need to know to use this satellite and others as well as how to find out about others that will be launched soon. Make sure to mark the 16th on your calendar and plan on joining us. Be sure to hang around to participate in the after meeting discussion groups. They are a great way to get answers to any questions you may have.

This year in May will mark the 95th birthday of the Ogden amateur radio club. If you are not familiar with how the club was started and where our current club call sign originated from, then click on the following link and find out!

<http://www.ogdenarc.org/documents/OARC%20History.pdf>

I am very proud and honored to be associated with all of you and to be a part of such a Great Club. Use the club meetings, repeaters, newsletter, website, and the Yahoo group to stay on top of all that will be happening this year.

On behalf of the Ogden Amateur radio club and myself, we wish you a happy, healthy, safe, and prosperous 2016.

73 de Gil

CLUB NEWS

Amateur Radio General Class

Sponsored By
The Ogden Amateur Radio Club (OARC)



www.OgdenARC.org



Date: Wednesdays, 6, 13, 27 January 2016
Time: 6:00 PM - 9:00 PM
Location: Weber County Sheriff's Office, 721 W 12th St. Ogden
Training Manual: ARRL General Class Manual - 8th Edition
(available for \$25 from OARC)
Contact: Jason Miles: 801-896-3702, jmiles2@gmail.com
Details: www.OgdenARC.org

Sign up NOW while a seat and manual are still available!

OARC COMING EVENTS



General Class Licensing Class

Wednesdays, January 2016

Next VE Test Session

1st Wed 03 February 2016

HOBBY NEWS



This astonishing photo came courtesy of Andrew Freeman, W0AAA, of Bemidji, Minnesota. A ham for more than 53 years, he has adorned his station with 3000 QSL cards. Andrew, who has another 10,000 cards filed away, said, "I just ran out of room!"

HOBBY NEWS

Editors comments:

Room Reservations: \$111 / night

Event Early Bird Registration: \$20

Food:

Friday Evening BBQ: \$36

Saturday Subway Lunch: \$33

Saturday Evening Banquet: \$46/\$48

Sunday Morning Breakfast: \$28



THE TIME HAS ARRIVED!

Registration is now open for HamCon Colorado 2016

The ARRL Rocky Mountain Division Convention is happening May 13-15, 2016
at the beautiful Keystone Conference Center in Keystone, Colorado.

Register Today. www.hamconcolorado.org

Jack McComb - WØJMC

HamCon Colorado 2016

303-885-9098

publicaffairs@hamconcolorado.org

CLUB NEWS

Unclaimed Club Badges

Our club treasurer is worried about several of you that have not picked up your new pre-paid OARC club badge. Your badge doesn't look quite like this one because it has your call sign and your name on it but we are quite sure you will enjoy yours just the same. You can claim your badge at any future club function, meeting, activity or event or contact our club badge czar Jerry KG7IGW.



<p>KD7RPT, Sparky KF7HNU, Ralph KF7VAR, Amber KG7WXB, Jared</p>	<p>AC7Q0, Dave AE7OK, Jay KT7JIM, Jim W7PYR, Jesse</p>
---	--



Club Swapmeet



“SALE” or “WANTED” ITEMS NEEDED

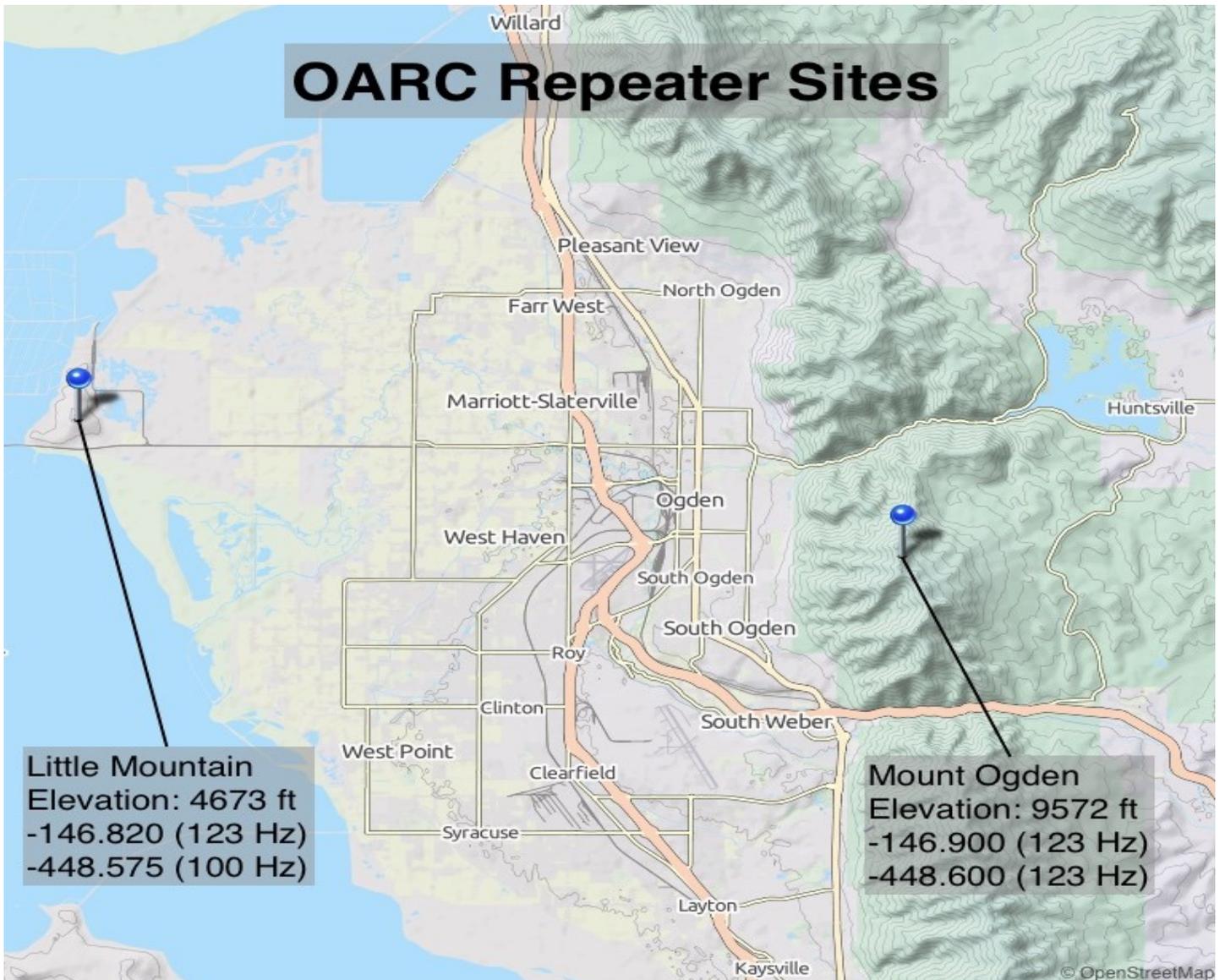
OARC's O-bay (On-Line Swap-Meet) items needed for the web site...

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

FEATURED ITEMS

Your Sales/Wanted Item could be posted here.

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.

**More to come ...
following the next 3 pages of commercials.**

Please stay tuned.

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.

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.



ARRL Again Complains to FCC about Illegal Marketing of Electronic Lighting Ballasts

12/29/2015

The ARRL has again complained to the FCC to allege illegal marketing of electronic RF lighting ballasts, operating under Part 18 of the Commission's rules, on the part of two major retailers. Letters went out this week to the FCC Enforcement Bureau and its Office of Engineering and Technology claiming Part 18 marketing regulations violations by Lowe's and by Walmart stores. At issue is the sale of non-consumer RF lighting ballasts to consumers who, in several instances, were told by store personnel that it was okay to install these in a residential setting. In addition, non-consumer and residential-class ballasts are intermixed in store displays with inadequate signage to direct consumers to the correct choice. Both letters asked the FCC to investigate and commence enforcement proceedings with respect to the two stores' marketing and retail sale of RF lighting devices in the US.

"ARRL purports to show that the [retailer] is...marketing and selling to consumers (by retail sale) non-consumer Part 18 RF lighting devices which are *not* intended for residential deployment, to consumers who have specifically noted their intention to deploy the devices in residential applications," ARRL Chief Counsel Chris Imlay, W3KD, said in similar complaint letters to the Commission on December 28 and December 29 (attached below). Part 18 emissions limits for consumer devices are far lower than those allowed for non-consumer devices.

"ARRL has received numerous complaints from Amateur Radio operators of significant noise in the medium (MF) and high frequency (HF) bands between 1.8 MHz and 30 MHz from 'grow lights' and other Part 15 and part 18 RF lighting devices," Imlay continued. "These devices are easily capable of emitting RF noise sufficient to preclude Amateur Radio MF and HF communications (and, as well, AM broadcast station reception) throughout entire communities."

Supporting both complaints are extensive and detailed reports by ARRL Laboratory EMC Specialist Mike Gruber, W1MG. The reports recount incidents of actual purchases of Part 18 RF lighting devices intended for commercial use to consumers who made clear to store personnel that they intended to use the devices at home. Gruber's report includes multiple photographs that depict in-store displays of the products in question and showing signage that does not adequately explain which devices may be sold to whom.

The ARRL has asked that all non-consumer devices be removed from retail sale and marketing at the stores and to track and recall non-consumer devices already sold to consumers.

In his report, Gruber concluded that retailers should require purchasers of non-consumer Part 18 RF lighting devices to provide a valid contractor's number. He also advised that the stores improve display signage to make it clear that non-consumer Part 18 devices may not be used in residential settings.

Earlier this year, the ARRL sent similar complaint letters to the FCC regarding the marketing of Part 18 RF lighting devices by The Home Depot. The League also has complained about specific RF lighting "grow light" devices that it has alleged exceed Part 18 emission limits.



FCC Proposes to Penalize California Licensee \$25,000 for Causing Intentional Interference

12/19/2015

The FCC Enforcement Bureau has proposed fining William F. Crowell, W6WBJ (ex-N6AYJ), of Diamond Springs, California, \$25,000 for intentionally interfering with other Amateur Radio operators and transmitting prohibited communications, including music. FCC San Francisco District Director David K. Hartshorn released a *Notice of Apparent Liability for Forfeiture (NAL)* on December 18, detailing the allegations. An Advanced class licensee, Crowell is no stranger to the Enforcement Bureau, which had warned him as far back as 2000 about intentional interference. In 2008 the FCC designated his current license renewal application for [hearing](#), alleging that he had caused intentional interference, interrupted others' communications, transmitted music, and made one-way transmissions, including some containing "indecent language," the FCC said. His license, which expired in 2007, has not been renewed, but Crowell may continue to operate while his application is pending. Prompting the December 18 *NAL* were complaints earlier this year by members of the Western Amateur Radio Friendship Association (WARFA), which conducts nets three times a week on 75 meters.

"Deliberate interference undermines the utility of the Amateur Radio Service by preventing communications among licensed users that comply with the Commission's rules," the FCC said in its *NAL*. "Mr Crowell's deliberate interference to other users, using voice, noises, and music, directly contravenes the Amateur Radio service's fundamental purpose as a voluntary noncommercial communications service..."

The Enforcement Bureau recounted that its agents and the High Frequency Direction Finding (HFDF) Center monitored Crowell's transmissions during the WARFA Net on 3908 kHz on August 25 and August 27. As the agents and the HFDF Center listened, Crowell "repeatedly interrupted other amateurs using noises, recordings, and music, in addition to talking over amateurs affiliated with the WARFA Net, so as not to allow them to transmit on the frequency," the FCC said in its *NAL*. "His transmissions and recordings included racial, ethnic, and sexual slurs and epithets." According to the *NAL*, the interference continued until the net shut down.

During an inspection of his station, Crowell acknowledged to FCC agents that he operates on 3908 kHz among other frequencies on most nights, and that he was transmitting on the evening of August 27. The agents warned Crowell that his transmissions violated the Communications Act and FCC rules. Crowell asserted that playing recordings was not against the rules and, the FCC reported, "that he would continue to operate his amateur station as he had been doing." The FCC said on August 30, the HFDF Center again monitored Crowell "using his amateur station to engage in the same types of intentional interfering transmissions during the meeting time for the WARFA Net."

Crowell was given 30 days from the release of the *NAL* to pay the forfeiture or to file in writing seeking reduction or cancellation of the proposed penalty.



Florida Ham Agrees to Penalty for Failure to Identify

12/10/2015

The FCC Enforcement Bureau has entered into a consent decree with a Florida radio amateur to resolve an investigation into whether the licensee violated Sections 97.113(b) and 97.119(a) of the FCC rules by transmitting one-way communications and failing to identify. As part of the deal, Thomas J. Warren, K3TW, of Lecanto, Florida, will pay a monetary penalty. The FCC issued an [Order](#) incorporating the *Consent Decree* on December 9 in the case, which dates back to June 2015.

“In response to complaints that an unidentified station was transmitting on an Amateur Radio frequency at 14 MHz, FCC agents determined that the transmissions were coming from Mr Warren’s residence,” the FCC said in its December 9 *Order*. “To settle this matter, Mr Warren admits that he failed to transmit his assigned call sign, violated the Commission’s rules, will report any noncompliance with rules governing the Amateur Radio Service, and will pay a \$3500 civil penalty.”

The *Consent Decree* provided a few more details of the case. The FCC recounted that, after tracking down the unidentified transmissions to Warren’s residence, Warren conceded that he had not identified at least some transmissions that he’d made that day. “The agents issued an on-scene written warning to Mr Warren regarding the violations,” the FCC said in the *Consent Decree*. “In his written response to the warning, Mr Warren acknowledged that he may have failed to transmit his station identification as required on June 25, 2015.”

According to the *Consent Decree*, Warren’s transmissions “related to an ongoing dispute with another Amateur Radio operator, whose intentional interference had allegedly disrupted communications on the American Foreign Service Net that operates weekly on 14.316 MHz.”

The FCC said the *Consent Decree* terminates its investigation, and that it will not use facts established during the investigation and through the effective date of the *Consent Decree* to institute any new proceeding or take further action against Warren regarding the matters that were the subject of the investigation.

GUEST ARTICLE

by KB6NU

What would Wayne (Green) do?

By Dan Romanchik, KB6NU

Wayne Green was a crackpot...but he was a great one.

For those of you who aren't as old as I am, Wayne Green, W2NSD, was not only the publisher of 73 Magazine, but also the founder of Byte and other PC magazines in the early days of personal computing. In 73, he would write these long, rambling editorials. Often, he would take the ARRL to task, criticizing what he thought to be some lunk-headed policy or another.

Just as often, he'd be encouraging hams to take up some new technology. He was, for example, one of the guys driving hams to set up repeater systems.

He would often exhort hams to get started in their own technology-related business. I remember one column where he urged hams to get involved in the home-security business. And, of course, when personal computers became popular, he wrote that hams should think about getting into that business. His reasoning was that our knowledge of electronics would stand us in good stead in those businesses.

Today, I think that he would be telling us to get more involved in with technologies like the Internet of Things, WiFi, or whatever other wireless technology is coming down the pike. "Wireless" is the key word here. These networking technologies are based on good, old radio, and who better to push these technologies forward than guys like us who understand radio.

This point was brought home to me last week as I was interviewing an executive of a wireless company for an article that I'm writing. He said to me that many of the companies he works with are taking a software-centric view to their wireless products. They simply use the reference designs provided by the wireless chip makers and expect those designs to work flawlessly in their products.

While they often do, he gave me an example where simply using the reference design was a colossal failure. In one case, he said, the company mounted the board inside a metal enclosure. Since the antenna was part of the printed-circuit board, the enclosure acted like a shield, and of course, the device had little or no range.

GUEST ARTICLE

continued

He went on to say that he thought that there was a real shortage of experienced RF guys in the wireless industry. Does that sound like an opportunity to you? It does to me. So, I'm going to make like Wayne Green here and exhort all you guys to get out there and take advantage of it.

This is not only a business opportunity, but a way for amateur radio operators to fulfill a couple of the "purposes" of amateur radio, as set forth in Part 97.1 of the amateur radio regulations. Part 97.1(b) says that one of the purposes of the Amateur Radio Service is "Continuation and extension of the amateur's proven ability to contribute to the advancement of the radio art." According to Part 97.1(d), another purpose of the Amateur Radio Service is "Expansion of the existing reservoir within the amateur radio service of trained operators, technicians, and electronics experts."

Let's do it!

When he's not ruminating on the latest wireless technologies, KB6NU likes to make use of some vintage wireless technologies by working CW on the HF bands. He's also a prolific blogger (www.kb6nu.com) and the author of the "No Nonsense" amateur radio license study guides (www.kb6nu.com/study-guides). If you have a comment or a question, email him at cwgeek@kb6nu.com.

FEATURE ARTICLE

HISTORY OF THE CAR RADIO

Seems like cars have always had radios, but they didn't. Here's the story:

One evening, in 1929, two young men named Bill Lear and Elmer Wavering drove their girlfriends to a lookout point high above the Mississippi River town of Quincy, Illinois, to watch the sunset.

It was a romantic night to be sure, but one of the women observed that it would be even nicer if they could listen to music in the car.

Lear and Wavering liked the idea. Both men had tinkered with radios (Lear served as a radio operator in the U.S. Navy during World War I) and it wasn't long before they were taking apart a home radio and trying to get it to work in a car.

But it wasn't easy: automobiles have ignition switches, generators, spark plugs, and other electrical equipment that generate noisy static interference, making it nearly impossible to listen to the radio when the engine was running.

One by one, Lear and Wavering identified and eliminated each source of electrical interference. When they finally got their radio to work, they took it to a radio convention in Chicago.

There they met Paul Galvin, owner of Galvin Manufacturing Corporation.

He made a product called a "battery eliminator", a device that allowed battery-powered radios to run on household AC current.

But as more homes were wired for electricity, more radio manufacturers made AC-powered radios.

Galvin needed a new product to manufacture. When he met Lear and Wavering at the radio convention, he found it. He believed that mass-produced, affordable car radios had the potential to become a huge business.

Lear and Wavering set up shop in Galvin's factory, and when they perfected their first radio, they installed it in his Studebaker.

Then Galvin went to a local banker to apply for a loan. Thinking it might sweeten the deal, he had his men install a radio in the banker's Packard.

Good idea, but it didn't work –

Half an hour after the installation, the banker's Packard caught on fire. (They didn't get the loan.) Galvin didn't give up.

He drove his Studebaker nearly 800 miles to Atlantic City to show off the radio at the 1930 Radio Manufacturers Association convention.

Too broke to afford a booth, he parked the car outside the convention hall and cranked up the radio so that passing conventioners could hear it.

That idea worked -- He got enough orders to put the radio into production.

WHAT'S IN A NAME

That first production model was called the 5T71.

Galvin decided he needed to come up with something a little catchier.

In those days many companies in the phonograph and radio businesses used the suffix "ola" for their names - Radiola, Columbiola, and Victrola were three of the biggest.

Galvin decided to do the same thing, and since his radio was intended for use in a motor vehicle, he decided to call it the Motorola.

But even with the name change, the radio still had problems:

When Motorola went on sale in 1930, it cost about \$110 at a time when you could buy a brand-new car for \$650, and the country was sliding into the Great Depression. Installation was extra. (By that measure, a radio for a new car would cost about \$3,000 today.)

In 1930, it took two men several days to put in a car radio --

The dashboard had to be taken apart so that the receiver and a single speaker could be installed, and the ceiling had to be cut open to install the antenna.

These early radios ran on their own batteries, not on the car battery, so holes had to be cut into the floorboard to accommodate them.

The installation manual had eight complete diagrams and 28 pages of instructions. Selling complicated car radios that cost 20 percent of the price of a brand-new car wouldn't have been easy in the best of times, let alone during the Great Depression --

Galvin lost money in 1930 and struggled for a couple of years after that. But things picked up in 1933 when Ford began offering a Motorola pre-installed at the factory.

In 1934 they got another boost when Galvin struck a deal with B.F. Goodrich tire company to sell and install them in its chain of tire stores.

By then the price of the radio, with installation included, had dropped to \$55. The Motorola car radio was off and running.

(The name of the company would be officially changed from Galvin Manufacturing to "Motorola" in 1947.)

In the meantime, Galvin continued to develop new uses for car radios.

In 1936, the same year that it introduced push-button tuning, it also introduced the Motorola Police Cruiser, a standard car radio that was factory preset to a single frequency to pick up police broadcasts.

In 1940 he developed the first handheld two-way radio -- The Handy-Talkie -- for the U. S. Army.

A lot of the communications technologies that we take for granted today were born in Motorola labs in the years that followed World War II.

In 1947 they came out with the first television for under \$200.

In 1956 the company introduced the world's first pager; in 1969 came the radio and television equipment that was used to televise Neil Armstrong's first steps on the Moon.

In 1973 it invented the world's first handheld cellular phone.

Today Motorola is one of the largest cell phone manufacturers in the world.

And it all started with the car radio.

WHATEVER HAPPENED TO the two men who installed the first radio in Paul Galvin's car?

Elmer Wavering and Bill Lear ended up taking very different paths in life.

Wavering stayed with Motorola.

In the 1950's he helped change the automobile experience again when he developed the first automotive alternator, replacing inefficient and unreliable generators. The invention led to such luxuries as power windows, power seats, and, eventually, air-conditioning.

Lear also continued inventing. He holds more than 150 patents. Remember eight-track tape players? Lear invented that.

But what he's really famous for are his contributions to the field of aviation. He invented radio direction finders for planes, aided in the invention of the autopilot, designed the first fully automatic aircraft landing system, and in 1963 introduced his most famous invention of all, the Lear Jet, the world's first mass-produced, affordable business jet.

(Not bad for a guy who dropped out of school after the eighth grade.)

Sometimes it is fun to find out how some of the many things that we take for granted actually came into being!

AND

It all started with a woman's suggestion!!

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 (*)	123.0	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	3 rd Saturday 09:00 am	Check OARC web site ...
WC ARES	ogdenarc.org/ join.html#ares	2 nd Thursday 06:30 pm	Weber Co. Library Ogden Utah
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
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

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 @ 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 3 rd 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 3 rd Saturday – odd months only
Saturday @ 11:00AM mst	QCWA net HF	7.272 Mhz HF LSB

OARC OFFICERS

President: Gil Leonard NG7IL

Vice Pres: Jason Miles KE7IET

Secretary: Mike Taylor KE7NQH

Treasurer: Jerry Cottrell KG7IGW

Program Director:
Pete Heisig WB6WGS

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: John Shupe K7DJO

QSL Manager: John Shupe K7DJO

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

73 es cul de W7SU

www.OgdenArc.org