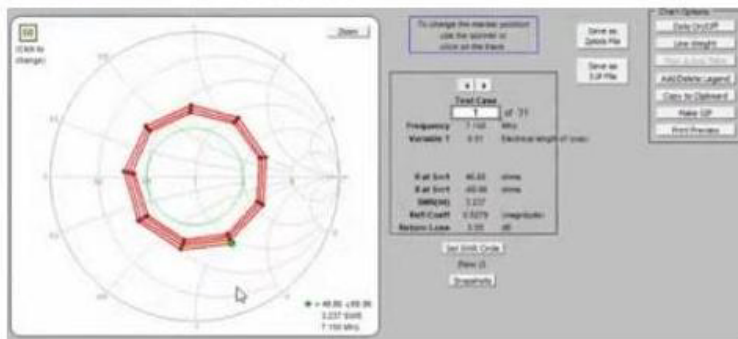
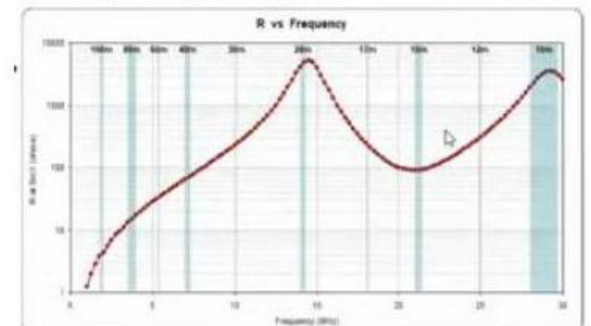
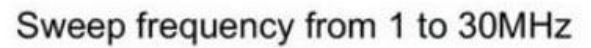
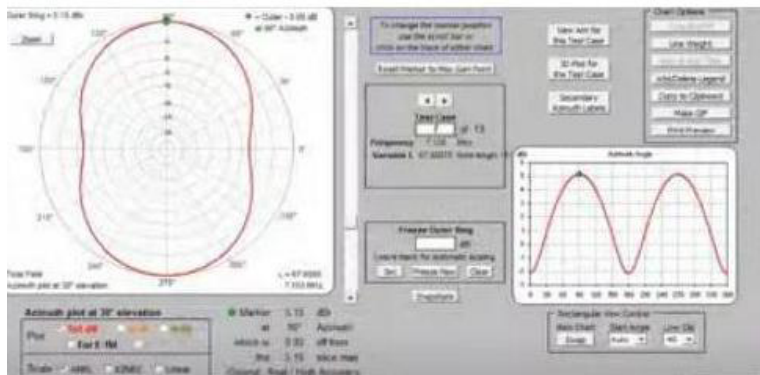
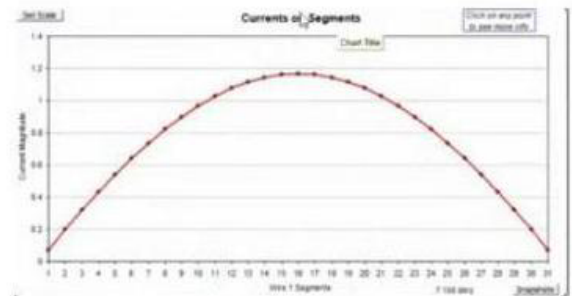
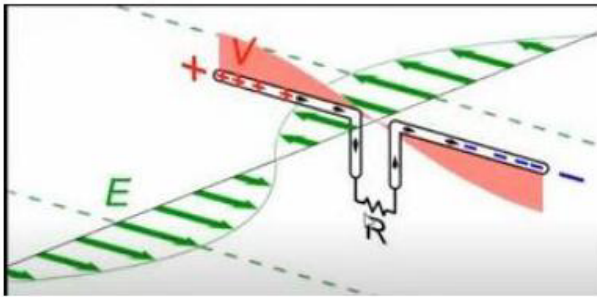


The *Microvolt*

June 2021



Field Day is ON!

Prologue

Publication: *The Microvolt* (USPS 075-430) is the official publication of the Utah Amateur Radio Club, Incorporated, 632 S. University Street, Salt Lake City, UT 84102-3213. It is published monthly except August. Subscription is included with club membership at \$20 per year. Single copy price is \$1.50. Periodicals postage paid at Salt Lake City, Utah. Postmaster: send address corrections to *The Microvolt*, c/o Tom Kamlowksy, 4137 Clover Lane, Salt Lake City, UT, 84124-2711.

Deadline for submissions is the 24th of each month prior to publication. Submissions by email are preferred (k7hfv@arrl.net), but other means including diskettes and typewritten submissions can be mailed directly to: Gordon Smith, 632 University St., Salt Lake City, UT 84102-3213. Reprints are allowed with proper credits to *The Microvolt*, UARC, and authors. Changes in mailing address should be communicated to the Club Secretary: Tom Kamlowksy, 4137 Clover Lane, Salt Lake City, UT, 84124-2711.

Club: The Utah Amateur Radio Club was organized under its present name in 1927, although its beginnings may date back as early as 1909. In 1928, it became affiliated with the American Radio Relay League (club #1602) and is a non-profit organization under the laws of Utah. It holds a club station license with the call W7SP, a memorial call for Leonard (Zim) Zimmerman, an amateur radio pioneer in the Salt Lake City area.

Meetings: The club meets each month except July and August. The meetings are held on the second Thursday of the month at 7:30 PM in the University of Utah's Warnock Engineering Building, generally in room 1230 or 2230, sometimes in 2250 or 105.

Membership: Club membership is open to anyone interested in amateur radio; a current license is not required. Dues are \$20 per year, including a *Microvolt* subscription. *The Microvolt* and membership cannot be separated. Those living at the same address as a member who has paid \$20 may obtain a membership without a *Microvolt* subscription for \$12. Send dues to the Club Secretary: Tom Kamlowksy, WA7ZRG, 4137 Clover Lane, Salt Lake City, UT 84124-2711. Let the Secretary know if you prefer the electronic edition of *The Microvolt* instead of the printed version.

Contributions: Monetary contributions are gladly accepted. Send directly to the Club Treasurer: Chuck Johnson, 1612 W. 4915 S. Taylorsville, UT 84123-4244. For in-kind contributions, please contact any board member to make appropriate arrangements.

Repeaters: UARC maintains the 146.62- and 146.76- repeaters. The repeaters are administered by the UARC Repeater Committee. Comments and questions may be directed to any Committee member. The Lake Mountain repeater (146.76-) is IRLP node 3352. Instructions for IRLP use are on the club website.

Ham Hot-Line: The Utah Amateur Radio Club (UARC) has a Ham Hotline, 583-3002. Information regarding Amateur Radio can be obtained, including club, testing, meeting, and membership information. If no one answers leave your name, telephone number and a short message on the answering machine, and your call will be returned.

UARC 2021 Board

President: Morris Farmer, AD7SR	801 278-4966
Executive VP: Lonnie Oaks, K7LO	801 255-1225
Vice Pres: Bruce Fereday, KF7OZK	801 883-9428
Secretary: Tom Kamlowksy, WA7ZRG	801 505-9134
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<i>Microvolt</i> Editor: Gordon Smith, K7HFV	801 582-2438
Asst. <i>Microvolt</i> Editor: Rick Asper, AC7RA	801 865-1693
Program Chairperson: Robert Jelf, KG7OHV	385 252-7900
Program Chairperson: Mary Jelf, KG7QNG	385 347-7900
Imm. Past President: Clint Turner, KA7OEI	801 566-4497

Committee Chairpersons and Members

Bookseller: Rick Gregory, KG7GOW	801 582-7783
Historian: Ron Speirs, K7RLS	801 904-3587
Field Day Chair: (To be determined)	
License Trustee: Brett Sutherland, N7KG	801 298-5399
Repeater Engineer: Clint Turner, KA7OEI	801 566-4497
Autopatch Engineer: Gordon Smith, K7HFV	801 582-2438

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IRLP Information

For information on using the club's IRLP node on the 146.76 repeater, check <http://www.utaharc.org/irlp>. Contact the Secretary for the prefix code. Please do not give this out to nonmembers of UARC.

For late breaking news listen to the UARC Information Net Sundays at 21:00 on 146.62 or set your browser to: <http://user.xmission.com/~uarc/announce.html>

We are grateful to the management of XMission, our Internet Service Provider (ISP), for the donation of this Web-Page service.



For account information go to:

<http://www.xmission.com/>

Or call 801 539-0852



The Microvolt

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Volume 64, Issue 6, June, 2021

Latest News

June (on-line) Meeting: *All About Field Day*

The UARC officers have decided that, given the recent relaxing of restrictions by state and county governments, it should be possible for UARC to enter the annual Field Day operating activity sponsored by the American Radio Relay League (ARRL). Field Day is the most popular amateur radio contest or operating event in the world.

We will set up a station at our traditional site just south of Payson Lakes and operate for a full twenty-four hours, trying the work as many stations as possible.

There will be at least three stations set up, and those who attend can take turns operating and logging.

The Board of Directors adopted the following policy for making sure everyone is adequately protected against disease from the Corona virus:

“The UARC Field Day and Steak Fry, will be held as usual, with the only caveat being that, if you want to participate, we ask that you be fully vaccinated by the time of the event. A person is not considered fully vaccinated until two weeks after the last dose of the vaccine.

“If you are not fully vaccinated we ask that you follow the CDC’s recommendations that you wear a mask at all times and maintain social distancing.”

Field Day takes place from Saturday, June 26 through Sunday, June 27.

At the coming meeting we will try to explain some of the details of operating at Field Day, how to find the site, what logging software to practice with, what to bring for camping, and how to participate in the traditional Saturday evening dinner.

The meeting will be on Thursday, June 10, and will, again, be an on-line meeting. It can be accessed (along with several past meeting programs) by going to:

<https://www.youtube.com/c/UtahAmateurRadioClub> and looking for the video marked “live.”

You can start watching soon after 7 P.M. to make sure you have found the right place. The meeting will start at 7:30.

Except for July and August, UARC meetings are held on the second Thursday of each month at 7:30 P.M.

Our Cover

Our cover this month features some scenes from the May meeting showing what can be known about antennas by using modeling software. Our presenter, Mike Mladejovsky, W7ARK, pointed out some basic behavior of wire antennas and some common fallacies, particularly relating to baluns, what constitutes a useful balun, and where one can be placed for best results.

If you missed the meeting or just want to watch parts of it again, it can be replayed on YouTube by going to:

<https://www.youtube.com/c/UtahAmateurRadioClub>

and looking for the May 13 video.

Steak-Fry

When the summer heat sets in, a nice chance to get away is UARC's annual steak-fry in the cool of the mountains. The event will be held this year on Saturday afternoon, July 17, in "The Spruces" campground in Big Cottonwood Canyon. Steak prices have gone up a bit since our last steak-fry in 2019, so this year's price has yet to be determined. As soon as it can be determined, we will post the steak-fry price on the UARC web site along with the process for getting a reservation. That information will also be included in the July issue of *The Microvolt*.

Again, those who have not been fully vaccinated will be asked to wear a mask and maintain social distancing. A person is not considered fully vaccinated until two weeks after the last dose of the vaccine.

New ARRL Section Manager

Results are in for the election of ARRL Section Manager (SM) for Utah. It was announced on May 22 that Pat Malan, N7PAT, won the election with 419 votes over 339 for the incumbent, Mel Parkes, NM7P. Mel had held the position for 22 years. Utah had the only contested position in the spring this year. Pat will assume the office on July 1,

Section managers are responsible for appointing people to manage the National Traffic System (NTS) and the Amateur Radio Emergency Service (ARES). They serve a term of two years.

New License Applicants Must Have FRN

FCC rules have changed so that before a prospective new ham can take a test for a license, he must have obtained an FCC Registration Number (FRN) and put it on his application form. In the past, an applicant was allowed to just enter his Social Security number on the application. As it was processed, an FRN would be automatically assigned.

In the process of getting an FRN, an applicant must supply a password. It is wise to keep the password in a safe place where it can be found in ten years when time for license renewal comes up. The password allows any licensee to apply on line for renewal, address change, or request for a "vanity" callsign. It can also be used to get a file that can be used to print an "official" copy of the amateur's license.

Another recent change is a requirement that a license applicant must supply an email address. ARRL suggests that those who do not have an email account should supply an address of a friend or relative. The Commission plans to use email exclusively if the licensee needs to be contacted, for any reason, such as to resolve an interference complaint.

In response to a request from ARRL, the FCC has guaranteed that email addresses will not be made public. Postal mail addresses will continue to be available to the public.

Remote Station to Get Beam

UARC's remotely-controlled HF station near the town of Leamington is expected soon to get a log-periodic rotatable antenna that can be used on the 10, 12, 15 17, and 20-meter bands. The station is available to any UARC members with at least a General class license. Check the "HF Remotes" section of the web site for updates and instructions for use.

All About Field Day



Field Day is the world's biggest amateur operating activity. It is sponsored by ARRL and happens every year on the fourth Saturday of June and the following Sunday. The object is to test our ability to set up stations in remote areas away from electricity, running water, and heated bedrooms, and to demonstrate that we can still communicate with other amateurs all over the country. For a complete description of the event and the full rules, see <http://www.arrl.org/field-day>. Field Day can be a great opportunity to do some HF operating combined with a family camping trip.

UARC owns an 80-foot movable tower, two beam antennas, and a large generator, which can give many of us a chance to operate with a strong signal, especially if our home stations are limited

by lack of good antenna locations or simply time and money.

Another skill that Field Day operation can hone is the ability to copy a lot of incoming information correctly. For each station we work we need to record its entry class and ARRL section. We must also send the same information about our entry and make sure the station on the other received it correctly. This skill can be vital in an emergency when available channels are clogged due to outages of normal communications facilities.

When is it? The actual event (i.e. making contacts) starts at noon on Saturday, June 26. However we will begin setting up tents, antennas, and equipment the evening of Thursday, June 24.

Turning a land of nothing but dirt, plants, and trees into a fairly capable communications center in a matter of less than two days can be a worthwhile experience by itself. Come when you can and leave when you must.

Where is it? We will be operating from a clearing on the Nebo Scenic Loop Road, just a half mile south of the Payson Lakes campground entrance (not the picnic area).

Here is how to reach UARC's site:

1. Starting from the Salt Lake Valley, go south on I-15 to the first Payson exit, exit 250. Take the exit.
2. Go left at the end of the exit ramp which should put you on Main Street (aka SR-115). (You are really going south at this point although it may seem like east.)
3. Turn left on 100 North, aka SR-198.
4. Turn right on 600 East, also called "Peteetneet Boulevard." This turn is at the top of a hill at a picturesque old school. Be careful to observe the speed limit.
5. Follow 600 East until it takes you to the mouth of Payson Canyon. At this point note your odometer reading or reset your trip odometer.
6. Watch for landmarks at these approximate mileages from the canyon mouth:
 - a. 11.1: Payson Lakes Day-use area on the right.
 - b. 11.7: Payson Lakes Campground. turnoff on the right.
 - c. 12.3 Guard station turnoff on the right.

At the guard station turnoff on the right, don't take the right turn, but instead turn *left* onto a dirt road. Within a few hundred yards you will see the camp area.

According to Google Earth, the coordinates are: 39° 55' 31.11" N., 111° 37' 53.06" W.

What to bring: Our site is nothing more than an open field, so you will need to bring everything you will need for eating, sleeping, and being comfortable during your stay. This might include: food, water, shelter, a chair, a warm jacket, and your electronic tool kit.

On Saturday evening the club will supply a main dish for an evening meal. This can be a great time to meet other hams.

Can I Operate? With a need to keep three stations on the air for 24 hours, there should be a chance for everyone to try making contacts. Even if you are a Technician or even hold no license at all, you can operate the station as long as there is a higher-class licensee in the tent watching over the operation. There should be plenty available. If you've never worked HF or a contest before, this is a great opportunity to find out what it is like.

Why should I come? People find Field Day enjoyable for a variety of reasons. There's a chance to combine a family campout with amateur radio, a chance to get away from the valley's summer heat, a chance to see and participate in an HF station set up from scratch, a chance to operate with a good HF antenna at 80 feet in the air, and the chance to meet, in person, folks you have worked on the air.

One of the best reasons, though, is the fact that Field Day is a chance to hone skills that could be very important for emergency communication: particularly the ability to copy and record information accurately and continue through long hours.

Check the UARC website for possible last-minute changes in plans. We have managed to use the same site for many years but there is always the chance that fire, bear activity, or other unforeseen

events will force us to change our destination or other details of the event.

Operating from home: This year carries the same exception to customary rules that was in force last year. If you operate Field Day from your home station, under your own call, you can include UARC's name in the slot set aside for a club name. That will cause your score to be added to a "club aggregate score" for UARC. Enter the name as "Utah ARC."

To quote from the Field Day Rules:

"For example, if Podunk Hollow Radio Club members Becky, W1BXY, and Hiram, W1AW, both participate in 2021 Field Day — Hiram from his Class D home station, and Becky from her Class C mobile station — both can

include the radio club's name when reporting their individual results. The published results listing will include individual scores for Hiram and Becky, plus a combined score for all entries identified as Podunk Hollow Radio Club."

Practice: The software we will be using for logging is an old DOS program called "TRLog." If you would like to get acquainted with it ahead of time, you can download a version of the software at: <https://www.trlog.com/free.shtml>. If your OS is a 64-bit version of Windows, you will need to get one of the programs that creates an environment in which DOS programs can run, such as vDos (<https://www.vdos.info/>) or DOS-BOX (<https://www.dosbox.com/>).

Here and There

7QP A Success

The 2021 7th Call Area QSO Party (7QP) was deemed a success, with over 1000 entries. That made it the second highest number of entries in the contest's 16-year history.

The seventh call area contains eight states. Utah was one of just four that managed to have stations on the air in all its (29) counties. Six of the counties had only a single station on the air: Garfield, Grand, Millard, Morgan, Sanpete, and Tooele. This, undoubtedly, was the result of a number of operators who set up mobile or portable stations in some of the rarer counties.

The 7QP event is normally held on the first weekend in May. There is almost always a need for operators who are willing to go out into the field and "activate" one or more of the counties that have few or no amateurs who can get on HF.

Note from ARRL Director

Jeff Ryan, KØRM, the Director representing ARRL's Rocky Mountain Division, sent the following message to Utah members of ARRL:

"A new Section Manager has been elected for the Utah Section. Pat Malan, N7PAT, will begin a two-year term effective July 1st. Pat resides in South Jordan and has been involved with the Utah Amateur Radio community for many years. Please extend your congratulations to Pat as he begins his new role and I look forward to serving the membership of the Rocky Mountain division with him.

"I'd like to thank outgoing Utah SM, Mel Parkes, NM7P, who has served the Utah Section for the past 22 years. I'm grateful for his advice and counsel during my past tenure as Colorado's SM as well as my division roles. We wish both gentlemen success as we transition to a new section administration."

Photos From Past Field Days



Operators gather in the "Get On the Air" Tent



Doesn't a skyline look better with antennas?



Sometimes repairs are needed



Time for Saturday Dinner



Not all campouts involve an 80-foot tower



A sample of operators' accommodations