

The *Microvolt*

May, 2019



Prologue

Publication: *The Microvolt* (USPS 075-430) is the official publication of the Utah Amateur Radio Club, Incorporated, 699 E. South Temple Ste 100, Salt Lake City, UT 84102-1282. 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 Kamlowsky, 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 Kamlowsky, 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 Kamlowsky, 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 2018 Board

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Bookseller: Rick Gregory, JKG7GOW	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: Randy Finch, K7SL	801 556-7565
ATV 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>.

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>

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For account information go to: <http://www.xmission.com/> Or call 801 539-0852



The Microvolt

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May Meeting: Radio Direction-Finding

It's nice to be able to receive signals on the amateur bands, but it's even nicer to be able to determine where they are coming from. Radio Direction-Finding is the art of tracking down the source of a radio signal. It usually takes some specialized equipment (although some folks have been successful with a rubber duck) and some expertise. It can be handy for winning transmitter hunts at hamfests, locating unintentional interference sources, finding the ham whose push-to-talk button got stuck down, and locating the origin of intentional interference.

At our May meeting, to be held Thursday, May 9, Larry Jacobs, WA7ZBO, will be presenting information about direction-finding. Larry has had a great deal of experience both hunting and being the object of the hunt (also known as "the fox" or "the bunny"). There is a variety of equipment and techniques that can be used and Larry will be guiding us through some of the choices and letting us know their relative advantages and disadvantages.

The meeting will include a brief introduction to "Field Day," the annual contest that combines radio with camping. It will also be the first of two opportunities to make reservations for the annual UARC steak-fry, to be held Saturday, July 13. Cost this year is \$15 per person.

The meeting will take place Thursday, April 11, at 7:30 P.M. Location is the Warnock Engineering Building on the University of Utah campus, room 1230. (At this writing, the room number is not certain. Check <http://www.utaharc.edu/meeting> for last-minute updates.

UARC meetings are held on the second Thursday of each month. The room number varies with availability.

See <http://user.xmission.com/~uarc/meetmap.html> for a map and information on finding the building. The room number varies depending on availability.

Of course, the meeting will include the "standard" meeting features:

- Availability of ARRL books from Rick, the book seller
- An opportunity to join UARC or renew your membership
- An opportunity to join ARRL or renew your membership
- The chance to meet face-to-face the people you talk to on the air
- The "Meeting after the meeting": A chance to enjoy pizza or other gastronomic delights with other hams. It happens at Litza's Pizza, 716 E. 400 South.
- The "Meeting before the meeting": A similar get-together for those who can leave work early enough to get there by 5:15 P.M. It is held at "The Village Inn," 910 E. 400 South in Salt Lake City.

Latest News

Our Cover

Our cover this month show two parts of the April meeting. The top shows the Kenwood TS-480 which Gary Crum, KK7DV, explained is now the transceiver at the club's remote-controlled station near Leamington. Below is Robert Gunnell, KI7FUJ, showing his old Rayelco store and telling us about his plans for Standard Supply Company.

ARRL Field Day June 22-23

Coming next month, June 22-23, is the annual ARRL Field Day. Field Day is the largest Amateur Radio event of the year with participation across the United States and Canada. The Utah Amateur Radio Club plans to participate operating a station in the mountains and invites you to attend this popular event. The goal of Field Day is to *have FUN*, experience operating radios, practice and enhance operating skills, and contact as many stations as possible in a 24-hour period. The FUN is meeting, socializing, and working with fellow hams. It's also a great chance to combine radio operation with camping in the mountains.

Field Days offers a chance to get out, enjoy being outdoors, and practice emergency communication skills. In a remote outdoor setting you experience setting up a station from scratch. UARC provides the station equipment (tent, table, chair, power supply, HF radio, coax, antenna, etc.) but needs your help to get on the air for 24 hours. Operating begins Saturday at noon and wraps up Sunday at noon.

When UARC equipment arrives on site, usually sometime Friday, the fun gets underway. If you would like to experience setting up a beam or wire antenna, participating in raising the club 85-foot tower, putting a radio station together, or networking computers, there is something you can

help with and learn. Rules allow set up prior to the event but finishing touches are generally applied as the event begins.

Of course there is food. Be there on Saturday evening to share a potluck dinner and socialize with other hams. The club will provide the meat dish.

At this point we are not certain of a Field Day site. Fires in 2018 possibly destroyed the Payson Lakes site and we won't know until the snow melts. Watch the UARC website and June *Microvolt* for options and location. In case it's accessible, the normal site at Payson Lakes has been reserved. More to come!

So, you are invited. Mark your calendar and plan to attend Field Day 2019 the weekend of June 22 & 23. If your time is limited, come when you can and leave when you must. We are particularly in need of operators in the midnight to 8 A.M. period. This seems odd because we don't know many people with other obligations at those times.

If you have questions, contact a member of the UARC board. See you there!

–Laird Severinsen, WB7TGP

IRLP Now Available on 224.64

Sam Nazzise, KA7EGC, has announced that his repeater on 224.64 (PL=156.7 Hz) is now connected to the IRLP network. You can use it to connect with any other repeater in the IRLP network, anywhere in the world. Use your touch-tone pad to dial a node number. Check <http://status.irlp.net/?PSTART=5&country=2> for node numbers of U.S. IRLP stations. The band needs more use or we may lose it.

W7NMK, SK

Ray at 19 in his fourth year as a Ham. The 250 lb rig at his right produced 200 watts of high level modulated AM on all the HF bands. He made the 6 foot rack, drilled and tapped the 10/32 holes in the face of the rack and all the holes in the steel panels without an electric drill motor using his bed for a work bench. A large horse-shoe magnet was used to clean up the bed before retiring.

The receiver is a Hallicrafter SX25.

The mike a Turner model 99.

The ropes and pulleys in the top of the picture were part of the rotating system for a three element 10 meter beam made from 1/2 inch electrical conduit. It was mounted on a ten foot wood tower on top of the garage which was 60 ft in the rear of the home. In 1939 Utah was in the

W6 call area.



W6NMK in 1939

It is with deep regret that we announce the passing of Ray Larsen, W7NMK, quite possibly the oldest active amateur operator in Utah. Ray died on Thursday, April 11, at the age of 98.

Ray always said that ham radio had been very good to him, giving him the chance to work with electronics in the Navy, and to get a job with Standard Supply Company when he returned.

Ray was a member of the Utah Amateur Radio Club for many years, dating back to at least the late 1940's when amateur radio was just coming back to life after a government-dictated shutdown during World War II.

Ray was also the one who came up with our name, *The Microvolt*, in 1947. The publication was just one page in those days and was duplicated on a Hectograph duplicator, basically a pan full of wax that would hold purple ink long enough to make 25 copies to be passed out at a club meeting.

Ray was part of the UARC Board of directors from the 1940's on into the 1960's and served two terms as President.

He was helpful to the club for many years after, frequently finding door prizes for our meetings in

the back room at Standard Supply where he worked for forty years.

He was also one of the first hams in Utah to help organize amateur radio help for civil defense, working with Hal Morgan, the late W7JQ, then Superintendent of Police Radio for Salt Lake City.

Ray witnessed an incredibly large part of the history of amateur radio. Among the many changes and advances that occurred during Ray's life were: allowing voice communications on 40

meters, the creation of the 7th call area, creation of the Novice and Technician license classes, the switch on HF from AM to single sideband, the switch on VHF from AM to FM, the change from vacuum tubes to transistors, the switch from VFO's to frequency synthesizers, the advent of integrated circuits, and the many uses of microprocessors.

Ray's obituary can be found at:
<https://www.dignitymemorial.com/obituaries/salt-lake-city-ut/raymond-larsen-8247680>.

License Examination Schedule

Opportunities to test for new or upgraded amateur licenses

Date	Day	City	Contact Person	Phone
05/15/19	(Wed.)	Provo ⁵	Steve Whitehead, NV7V	(801) 465-3983
05/15/19	(Wed.)	St. George ²	Gary O. Zabriskie, N7ARE	N/A
05/20/19	(Mon.)	Taylorsville ^{3,5}	Garth Wiscombe, W7PS	(801) 558-5936
06/01/19	(Sat.)	Salt Lake City ^{1,4}	Gordon Smith, K7HFV	(801) 582-2438
06/05/19	(Wed.)	Ogden	Rick Morrison, W7RIK	(801) 791-9364
06/05/19	(Wed.)	Clearfield	Joe Girauda, N7JEH	(775) 777-4798
06/08/19	(Sat.)	Hurricane ²	Gary O. Zabriskie, N7ARE	N/A
06/19/19	(Wed.)	Provo ⁵	Steve Whitehead, NV7V	(801) 465-3983
06/19/19	(Wed.)	St. George ²	Gary O. Zabriskie, N7ARE	N/A
06/24/19	(Mon.)	Taylorsville ^{3,5}	Garth Wiscombe, W7PS	(801) 558-5936

¹Preregistration required. Check with the contact person before the test session.

²More information at <http://www.dixieham.org/meetings.html>

³New location is the Taylorsville City Hall, 2600 Taylorsville Blvd, Room 110

⁴More information at <http://www.utaharc.org/Exams/>

⁵Preregister by going to <http://www.hamstudy.org/sessions/> and finding the session date.

⁶Technician Exams only given at this session.

More details at <http://user.xmission.com/~uarc/testinfo.html>

ARRL Signs New MOU With FCC

From *The ARRL Letter*

ARRL and the FCC have signed a *Memorandum of Understanding (MOU)* that paves the way to implement the new and enhanced Volunteer Monitor program. The memorandum establishes the Volunteer Monitors as a replacement for the

Official Observers (OO) program. Current OOs have been encouraged to participate in the new program.

“We are excited by the opportunity to codify our partnership with the FCC and to work together to achieve our mutual interests of protecting the integrity of our Amateur Radio bands,” said ARRL President Rick Roderick, K5UR. “This *Memorandum of Understanding* will serve as the foundation for a new level of partnership on this very important issue.”

ARRL has contracted with retired FCC special counsel and former Atlantic Division Vice Director Riley Hollingsworth, K4ZDH, to oversee the ARRL's role in the development and implementation of the Volunteer Monitor program.

The better we are at sticking to the rules, the more chance we will have to hold onto our frequencies.

Approved by the ARRL Board of Directors at its July 2018 meeting, the new Volunteer Monitor program is a formal agreement between the FCC and ARRL in which volunteers trained and vetted by the ARRL will monitor the airwaves and collect evidence that can be used both to correct misconduct or recognize exemplary on-air operation. Cases of flagrant violations will be referred to the FCC by the ARRL for action in accordance with FCC guidelines.

The intent of this program is to re-energize enforcement efforts in the Amateur Radio bands. It was proposed by the FCC in the wake of several FCC regional office closures and a reduction in field staff.

“Under this program, the FCC will give enforcement priority to cases developed by the Volunteer Monitor program, without the delay of ARRL having to refer cases through the FCC online complaint process,” Hollingsworth said.

Hollingsworth has identified three phases to the program: Development, Solicitation and Training, and Implementation.

- The Development phase will include drafting a mission statement, clearly defining the ARRL's and FCC's requirements and needs as part of the program, writing a job description for volunteer monitors, and developing a training manual for volunteers.
- The Solicitation and Training phase will involve identifying the geographic locations where volunteer monitors will be most needed, soliciting applications and guidance from Section Managers in reviewing applicants. (Those currently volunteering as Official Observers are invited to apply for appointment as Volunteer Monitors.)
- The Implementation phase will involve having the volunteers provide field reports to ARRL, with staff offering guidance to volunteers to ensure that the information collected meets requirements for FCC enforcement action.

Hollingsworth has committed to FCC and ARRL officials to ensure the adequacy of training for the new positions, to review the quality and utility of Volunteer Monitor submissions to the FCC for enforcement actions, and to advocate for rapid disposition of cases appropriately submitted to the FCC.

ARRL officials estimate that the first Volunteer Monitors will be in place and ready to begin their duties within 6 to 9 months.

Member of the Month

Ann Mecham, KG7JFE

By Linda Reeder, N7HVF

This month we are featuring Ann Mechham KG7JFE. Ann's Husband, Bruce, KA7MHD. got

Ann interested in amateur radio. Bruce has been in amateur radio for a very long time and her two

oldest sons already had their licenses. Bruce started teaching amateur radio classes. Ann decided to support him and started attending the classes. Ann was really interested in emergency preparedness and decided that she would like to get involved with that. She soon passed her Technician test and six months later took another class and obtained her General license.

Ann and her husband, Bruce, have three boys and all of them have their licenses now. Kevin's call sign is KD7OLA and he is an Extra. Keith's call sign is KD7OLB and he also has his Extra class license. Dallin's General call sign is KG7QNV.

Ann is a member of and Sandy Amateur Radio Club, SARC, and is the assistant to the secretary/treasurer. She attends the in-person meetings.

Ann really enjoys Field Day with the Sandy Amateur Radio Club. Their Field Day is at the Sandy Senior Center.

Ann participates in a weekly ERC stake net at 8 p.m. on Sunday nights. Ann is also a member of UARC. She said she would love to attend the meetings, but she has to get up at 4:30 in the morning to get ready for work. Ann works for the

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Jordan Valley Water Conservancy District as a customer service representative. She did attend UARC's steak-fry last summer and hopes to do it again this year.

Ann is interested in digital communications. She is taking digital communication classes at the Larry Miller campus of Salt Lake Community College in Sandy.

Ann's favorite aspects of amateur radio are talking to people and emergency preparedness. She said when she retires she will probably be talking on the radio a lot more. Other hobbies Ann enjoys are taking the dog for a walk and reading.

Ann, welcome to the hobby.

