

The *Microvolt*

September, 2018



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

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 Kamlowsky, WA7ZRG	801 505-9134
Treasurer: Chuck Johnson, WA7JOS	801 268-0153
<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: Laird Severinsen, WB7TGP	801 255-0834
Imm. Past President: Clint Turner, KA7OEI	801 566-4497

Committee Chairpersons and Members

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

Contents

September Meeting: Remote Control	3
Latest News.....	4
Steak-Fry 2018.....	5
Good Bye, WWV (plus WWVH and WWVB)? ..	7
Homebrew Night Coming.....	7
Member of the Month	7

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>

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

The Official Publication of the Utah Amateur Radio Club, Salt Lake City, Utah
Volume 61, Issue 8, September 2018

September Meeting: Remote Control

Remote control of an amateur transmitter was once very difficult and time-consuming to accomplish, but times have changed. Now that almost all transceivers perform their logic using microprocessors, many come with a connector specifically for controlling the radio and reading back parameters such as frequency, mode, and maybe even a spectral picture of a band segment.

Today there are numerous ways to remotely control a transceiver, many using hardware and software that can be purchased off the shelf. There are also remote control clubs and well-equipped stations around the world that can be used by anyone for a price. If you have access to a site other than your home — say your workplace or a summer cabin — and that place is without antenna restrictions, then you may have an easy way around HOA rules.

At our September meeting, to be held Thursday, September 13, Gary Crum, KK7DV, is going to tell us all about remote control. Gary has been busy setting up remote-controlled stations and using some built by others. Of particular interest to UARC members is a new HF station that will be available to any UARC members holding a proper class of license. The station is located near the town of Leamington, which sits between Eureka and Oak City. The setup has been under test for several months. It currently runs 100 watts to a G5RV antenna. The future may hold a tri-band Yagi. Gary will be giving us the details and answering questions.

The meeting will take place at 7:30 P.M. on Thursday, September 13, in room L103 of the Warnock Engineering Building. To reach the “L” three-digit numbered rooms, take the elevator in the southwest corner of the main floor down to level “L1.” (The elevators near the east entrance don't go there!)

UARC meetings are held on the second Thursday of each month (except August) at 7:30 P.M., in the Warnock Engineering Building on the University of Utah campus. The room number varies depending on availability. The meetings during the University's fall semester of 2018 will be in room L103 on the L1 floor.

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 is from our July “meeting,” otherwise known as the Steak-Fry. Shown left to right are Vice-President, Bruce Fereday, KF7OZK, and Immediate Past President, Clint Turner, KA7OEI. The weather was good, the temperature comfortable, and, according to several people the steaks and chicken were good as well.

KC7LLW, SK

It is with great regret that we note the passing of Carol McWherter, KC7LLW, on August 14, just short of her 69th birthday, after a battle with cancer.

Carol and her late husband, Eugene, N7OVT, had been very active in amateur radio for many decades. They helped regularly with VHF Society Swap Meets and many Utah Hamfests. Carol was also one of the originators of the “UARC Information Net” and kept the scripts up to date for a number of years. The two managed the series of exam sessions that come near the end of each month in the Salt Lake Valley. Carol will surely be missed.

For the obituary see:
<http://www.larkinmortuary.com/obituary/carol-farnsworth-mcwherter/>.

Upcoming License Classes

Starting in September, UARC President, Morris Farmer, AD7SR, along with Bill Rouleau, AE7UI, will conduct classes for those seeking a Technician or General class amateur license. Classes will meet weekly, from 7 to 9 P.M. at Morris' house. The only

cost is for the text that will be used: the ARRL *License Manual* for the appropriate class of license.

The schedule is as follows:

License Class	Day of Week	Starting Date
Technician	Mondays	9-17-18
General	Wednesdays	9-19-18

Space is limited, so anyone interested should contact Morris at: ad7sr@comcast.net as soon as possible..

Upcoming Events

September seems to be a busy month for hamfests and swap meets. Here are the ones we have heard about:

Sept 1: Alomogordo (NM) Hamfest
See: <http://www.qsl.net/k5lrw/hamfest.htm>.

Sept 14-16: Digital Conference in New Mexico
See: <https://www.tapr.org/dcc.html>.

Sept 21-23: ARRL Rocky Mountain Division Convention (Albuquerque)
See: <https://www.dukecityhamfest.org/>

Sept 15: Tri-County Swap Meet in Bountiful
This annual event takes place in Bountiful City Park and begins at 8 A.M. Admission is free. There is no charge for sellers or buyers. Take the Fourth North exit from I-15 and look for the park on the left.

Sept 29: Utah Valley Swap Meet
This event will be Saturday, September 29 from 9 AM to noon at the Spanish Fork Fairgrounds, Ponderosa Room. See: utahvalleyswapmeet.com.

Steak-Fry 2018

By Morris Farmer, AD7SR, UARC President

July 14th was a hot day in the Salt Lake Valley, we were hoping that the promised rain showers would really happen and give us at least some measure of relief from the near 100 degree temperatures we'd been suffering through for the past two weeks. The thought of getting up out of the valley and into the coolness amidst the trees at 8,000 feet was pleasant indeed.



As usual we were later than we hope getting on the road, we'd planned on 2:00, but it was closer to 3:00 before we entered the canyon. After a pleasant drive we arrived at The Spruces. It immediately became obvious that someone ahead of us had been much more anxious to get to the campsite, in fact they tried to jump the creek but didn't quite make it. Most of us weren't quite this anxious to join the crowd! Fortunately no one was hurt, only their vehicle and pride suffered any damage.

After an hour or so of face-to-face QSO's the chef, Bruce Fereday, KF7OZK, got the steaks



on the grill and in a few minutes we were queuing up for some of the best steaks we've had in several years. In addition to the steaks with a choice of sauces, we also had chicken. There were salad fixins and several dressings, rolls, corn, baked potatoes, and ice cream treats for desert. The fire looks ferocious, but everyone agreed the results were wonderful.

The Microvolt September 2018



For the most part the weather was fantastic, cooler than the city by just the right amount and ... well, just swell! OK, ok as usual, we had a light sprinkle. Some of us ran for cover, some



didn't think it would last long enough to be more than an inconvenience. I think both groups thought they were right. The important things were taken care of: face-to-face QSO's, good comradeship, and good food. They combined to make for a fantastic event. Carol and I are really glad we were there.

And, you know what? We're going to do it all over again next year! Yep, put July 13, 2019 on your calendar now so you can join the fun next summer!

Good Bye, WWV (plus WWVH and WWVB)?

It has been frightening to amateurs and many other users of the radio spectrum to discover that the White House's proposed budget for the Institute of Standards and Technology (NIST) includes cuts of funding for the radio stations in Colorado and Hawaii. This includes WWV, WWVH, and WWVB which send accurate time and frequency information and have been operating since 1920. These signals are frequently used to synchronize clocks, calibrate frequency synthesizers (such as those in virtually all of our transceivers, frequency counters and service monitors). Almost all of the thousands of so-called "atomic" clocks and watches that automatically set themselves would cease to operate should WWVB (on 60 kHz) cease transmitting.

There are on-line petitions soliciting signatures of those who would like to keep the stations operating. One has been established by Tom Kelly II, W7NSS, of Portland Oregon. ARRL

recommends that those amateurs who would like to see funding for the stations maintained should consider signing on to his petition. See: <https://petitions.whitehouse.gov/petition/maintain-funding-nist-stations-wwv-wwvh>.

Tom's petition mentions not only the value of the stations to disciplines ranging from broadcasting to scientific research, but also the fact that these stations transmit storm warnings from the National Weather Service, GPS Satellite Health Reports, specific information concerning solar activity, and radio propagation conditions. He contends the broadcasts are an essential resource to the worldwide communications industry.

For more information see:

<http://www.arrl.org/news/concern-rising-within-amateur-radio-community-over-wwv-wwvh-shut-down-proposal>.

Homebrew Night Coming

There is only a little time left until UARC's annual Homebrew Night, to be held on Thursday, October 11. This is the meeting where everyone who has been constructing any kind of amateur radio equipment is invited to show it to the club. This might include anything as small as a pocket-sized field strength meter to an eighty-element moonbounce antenna. The digital projector will be available to show photos, schematics, performance data, or any other illustrations to help explain the

details of what you have created. If the item is too large or too permanently installed to bring in, you can still show it via visual and/or audio files.

Good projects include such items as power supplies, electronic keyers, all types of antennas, linear amplifiers, and microphone preamps.

Mark your calendar!

Member of the Month

Dennis (Denzii) Melvin, KD3NZI

By Linda Reeder, N7HVF

This month we are featuring Dennis (Denzii) Will Melvin, KD3NZI. Dennis is a brand new amateur

radio operator. He received his Technician license in February of this year. His first call sign was

The Microvolt September 2018

KI7TQY. Dennis wanted a call sign that would have the letters of his nickname, Denzii, so he got a vanity call sign, KD3NZI.

Dennis met Noji Ratzlaff, KN0JI, on Facebook. Noji introduced Dennis to amateur radio and was Dennis's mentor. Noji has a web site where individuals can take practice tests. When Dennis was finally ready to take the test, he passed his test at the Murray fire station.

Dan Mignogna, AA3YT, is an Elmer for Dennis and helps him with antenna setups. Dennis has a Kenwood TS-2000. This rig covers 2 meters, 70 centimeters, 6 meters, and all of the HF bands. Dennis said there are five antenna jacks on the back of this rig. Dennis really wants to upgrade to General so he can get on the low bands and is also planning on obtaining his Extra class license. Dennis is learning the Morse Code so he can help Gordon make contacts on CW for Field Day next year.

Dennis is very active in amateur radio. He enjoys six meters and is very active on DMR (Digital Mobile Radio). Dennis says you can use it to talk all around the world including Russia.

Dennis talks with Charlie, KB2WTA, when Charlie is running his trucking route between Texas and California. He also enjoys the 220 MHz band. Dennis says he likes to hang around on 70 centimeters on the 448.4 repeater. He says you can always find him there.

Dennis says his favorite thing about amateur radio is all of the wonderful friends he has made. He attends the ham radio club meetings with Mike, KI7MTI, and Marty, N7XHB. They have a wonderful time.

Dennis grew up in San Diego, California. When he was 13 years old his family moved to Tooele, Utah, because his father got a job at Madcore.

After graduating from high school, Dennis joined the Army. He started studying in San Francisco.

He completed his bachelor's degree in Architectural Engineering in Russia. Dennis designs buildings all over the United States.

The Microvolt (USPS 075-430) is published monthly except August for \$20.00 per year or \$1.50 per issue by the Utah Amateur Radio Club, 699 E. South Temple STE 100, Salt Lake City, UT 84102-1282. Periodicals Postage Paid at Salt Lake City, Utah. POSTMASTER: Send Address changes to *The Microvolt*, c/o Tom Kamlowsky, 4137 S Clover Lane, Salt Lake City, UT 84124-2711.

Dennis has made the drawings for the World Trade Center, Tower 1 and Tower 2. Dennis can do this job at his home and mail the drawings to where they need to go. Dennis has had this job for 30 years and really enjoys it.

Dennis is a member of the Utah Valley Amateur Radio Club (UVARC) which meets in Orem. Dennis is also a member of the 76ers and of UARC, the Utah Amateur Radio Club. Another of his hobbies is flying large model aircraft.

Dennis, welcome to the hobby. We wish you the best in all of your endeavors.



Denzii Melvin, KD3NZI, with friend "Echo"