

The *Microvolt*

September, 2013



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 \$17 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 Dick Keddington, 1783 Woodside Drive, Holladay, UT, 84124-1620.

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: Dick Keddington, 1933 Woodside Drive, Holladay, UT, 84124-1632.

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 \$17 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 \$17 may obtain a membership without a *Microvolt* subscription for \$9. Send dues to the Club Secretary: Dick Keddington, KD7TDZ, 1783 Woodside Drive, Holladay, UT 84124-1620.

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 2013 Board

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Field Day Chair: Brett Sutherland, N7KG	801 298-5399
License Trustee: Brett Sutherland, N7KG	801 298-5399
Repeater Engineer: Randy Finch, K7SL	801 556-7565
ATV Engineer: Clint Turner, KA7OEI	801 566-4497
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IRLP Information

For information on using the club's IRLP node on the 146.76 repeater, check <http://user.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/>
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The Microvolt

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September Meeting: Putting Up a Tower

What does it take to put up a tower? At the next UARC meeting, Thursday, September 12, Morris Farmer, AD7SR; and Chuck DeWitt, W7DTO; will be giving us the blow-by-blow account of erecting a tower and associated antennas in Morris' back yard. Putting up a tower and antennas can cause numerous trips to the hardware store as one discovers details and complications that one might not have thought of. Perhaps we can all learn from someone else's experience and avoid having to make the same discoveries for ourselves.

Morris tells us that this is not intended to be the definitive article on how to install a tower; rather, the experiences of relative newcomers to the topic, their experiences, and lessons learned. At the end of the presentation comments and suggestions will be invited on what could have been done to make it better.

That's Thursday, September 12, at 7:30 P.M. in room 2230 (the "Clark" classroom). of the Warnock Engineering Building.

UARC meetings are held on the second Thursday of each month at 7:30 P.M., in the Warnock Engineering Building on the University of Utah campus. The fall, 2013 meetings are scheduled in room 2230, the "Clark Classroom." See the map at <http://user.xmission.com/~uarc/meetmap.html> for 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 Brett, the "book lady"
- 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. The September get-together will be at "The Sizzler," 371 E. 400 South in Salt Lake City.

Latest News

Our Cover

Our cover photo this month is from the annual Steak-Fry, held Saturday, July 13, at The Spruces campground. Past UARC President Linda Reeder, N7HVF, is shown helping to shuck corn. Behind her is Ted Cowan, KC7PM, and to her right is Dave Deelstra, N7ISH. The site was prepared for a possible thunderstorm, but nothing more than a few sprinkles developed near the end of the afternoon.

Mark Knight, KG7BBC, captured photos of many of the faces at the event. His collection is available on the web. A link to the collection can be found at: <http://user.xmission.com/~uarc/announce.html-steak>.

Swap Meet September 21

The Davis County Amateur Radio Club (DCARC) will be having its annual Swap Meet on Saturday morning, September 21, and all are invited. Starting time is 8 A.M. Those wanting to display items may want to come a bit earlier to set up. There is no entry fee. Tables are available on a first-come, first-served basis. Awards will be part of the event.

Location is Bountiful City Park, on 400 North in Bountiful between 100 West and 200 West. Just take the 400 North Exit from I-15.

Broadband-Hamnet Meet 9-14

Gerald Hasty, AD7QF, tells us that there will be a get-together on Saturday, September 14, for those interested in "Broadband Hamnet," formerly known as HSMM-MESH. It will run from 8 A.M. to 12 noon.

The location is the east end of Parallon's parking lot at 1120 Sportsplex Drive in Kaysville. It is just north of Barnes Memorial Park. Take Exit 328 from I-15, go west on 200 North, then north on 900 West to Sportplex Drive, about 500 North.

Gerald writes:

"Those interested are welcome to come for the morning with your equipment to test, configure, load, or update. There will be operators standing by to help instruct, guide, and configure your equipment. If your equipment is working and tested, come out anyway to show us what you have. The parking lot and part of Barnes Park will be set up as a test range. This will give us almost a quarter mile distance with few obstructions and a clear Fresnel zone. Far enough yet close enough. Working nodes will be set up to help test and troubleshoot your equipment. Services over the broadband mesh will be active, such as TeamTalk, VOIP, email and other services. Some of these services may be hosted on a Raspberry Pi."

For further information, send email to <mailto:ad7qf@arrl.org>.

Homebrew Night October 10

There's only a month left to get your 10 kW amplifier or your 160-meter beer can beam finished! UARC's annual homebrew night will take place at the October meeting, Thursday, October 10. This is a chance for amateurs to show off home-built equipment of various sorts. Anything which can be used in amateur radio and has not been shown at a previous UARC homebrew night is welcome.

If your project is too big, too heavy, or too permanently installed to bring in, just bring pictures and diagrams to show what you have

done. Digital images on a USB flash drive are one good way to accomplish this.

Good projects include power supplies, linear amplifiers, direction-finding systems, audio preamps, RF preamps, QRP transmitters and/or receivers, and antennas.

The clock is ticking; hurry!

License Classes Coming

During September there will be classes starting for prospective Technician and General licensees.

Technician Class: Morris Farmer, AD7SR, and Bill Rouleau, AE7UI, will teach a “long form” Technician license class beginning on Monday, September 16th, at Morris Farmer's home. The class will meet each Monday from 7-9 P.M. for approximately six weeks. There is no charge for the class. If you need a book they will be available at the first couple of class sessions for \$30.00, which goes to UARC. We use the ARRL Technician Class *License Manual*, second edition, as our text. If you are interested, or know someone who might be interested or would like more information, contact Morris at ad7sr@comcast.net, or Bill at wrouleau@comcast.net.

General Class: Morris Farmer, AD7SR, and Ron Speirs, K7RLS, will teach a General license class beginning on Wednesday, September 18th, at Morris Farmer's home. The class will meet each Wednesday from 7-9 P.M. for approximately eight weeks. There is no charge for the class. If you need a book, they will be available at the first couple of class sessions for \$30.00, which goes to UARC. We use the ARRL *General Class License Manual*, seventh edition, as our text. If you are interested or would like more information, contact Morris at ad7sr@comcast.net, or Ron at k7rls@comcast.net.

T-Shirts Awaiting Owners

The following people have ordered UARC "T" shirts but have not yet picked them up:

AC7RA Rick Asper
K7HFO Jeff Baty
N7OVG Susan Brewer
N7MFQ John Brewer
K7ALA John Hardy
K9BIT Paul Michelsen
K7BWO Clark Thayne
KE7YNQ Connie Yeates
WA7RFE Bob Yeates

The following people have ordered "T" shirts and I hope they will be available at the September 12th meeting. I say “I hope” because I have emailed the order to our “T” Shirt Guy, and followed up once with a copy of the order and tried to call him, all to no effect. My son, who has worked with him quite a bit, tells me he hasn't heard from him in more than a month. So, let's hope nothing serious has happened and the shirts show up in time for the meeting.

W7GEM Gregg McArthur
WE7BBQ Doug Maurer
N1RSE Mindy Maurer
KG7DTY Warren Stockton
KK7VZ Mike Young

Please plan on picking up your shirts at the September 12th meeting. If you haven't paid for your shirt yet, remember that the club has already paid for your shirts and are hanging out waiting for your payment. Also remember that the shirts are unique to you and can't be sold to anyone else.

If you are unable to make the club meeting, please contact me so we can make arrangements to get it to you.

Thanks & 73.

Morris Farmer AD7SR
<mailto:ad7sr@comcast.net>

Field Day Results

After a week or two of sifting through computer logs and e-mails we have come up with what we believe to be accurate scoring for UARC’s Field Day effort last June. The difference between “contacts” and “contact points” is that the latter includes the contest rule that CW contacts get two contact points each while voice contacts get just one point each.

It seems a bit discouraging that our contact points total is less than half the 2012 value and our total score is about 61.5% of that for 2012. We think a lot of the difference may be simply that we had more newcomers operating, and that’s a good thing. A major part of the purpose of Field Day is to give operators experience trying for speed and accuracy in operating conditions that may be less than ideal. Those are exactly the skills required for operation in an emergency.

We suspect another factor might have been that our A-4 Yagi, for some reason, wasn’t performing as well as Max George’s “Spider Beam” that we used on last year’s CW station.

On the bright side, our 40-meter CW score was better than in any recent year. It appears that our new 40-meter Vee antenna worked!

National results should appear on the ARRL web site in about November,.

UARC 2013 Field Day Contact Tally 2012 Values in Parentheses

Band	CW		SSB		Total	
80	—	(43)	52	(180)		
40	334	(261)	35	(122)		
20	273	(567)	262	(559)		
15	4	(335)	89	(216)		
GOTA	—		148	(178)		
Total Contacts	611	(1206)	586	(1255)	1197	(2461)
Contact Points	1222	(2412)	586	(1255)	1808	(3667)
Power Multiplier	X2				3616	(6334)

Bonus	Emergency Power:	300		
	Public Location	100		
	Message Origination	100		
	Alternate Power	100		
	W1AW Bulletin	100		
	Educational Activity	100		
	GOTA 20-Contact	120		
	Web Submission	50		
	Youth Participation	60	1030	(1210)
	Grand Total		4646	(7544)

License Examination Schedule

Opportunities to test for new or upgraded amateur licenses

Date	Day	City	Contact Person	Phone
09/14/13	(Sat.)	Farmington	Gary L. Davis, KE7MQF	(801) 298-3127
09/18/13	(Wed.)	Provo	Steve Whitehead, NV7V	(801) 465-3983
09/18/13	(Wed.)	St. George ²	Gary O. Zabriskie, N7ARE	(435) 674-2678
09/24/13	(Tue.)	Salt Lake City ³	Eugene McWherter, N7OVT	(801) 541-1871
10/02/13	(Wed.)	Ogden	Rick Morrison, W7RIK	(801) 791-9364
10/05/13	(Sat.)	Salt Lake City ^{1,4}	Gordon R. Smith, K7HFV	(801) 582-2438
10/12/13	(Sat.)	Hurricane ²	Gary O. Zabriskie, N7ARE	(435) 674-2678
10/16/13	(Wed.)	Provo	Steve Whitehead, NV7V	(801) 465-3983
10/16/13	(Wed.)	St. George ²	Gary O. Zabriskie, N7ARE	(435) 674-2678
10/29/13	(Tue.)	Salt Lake City ³	Eugene McWherter, N7OVT	(801) 541-1871

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

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

³New location: Senior Center at the Columbus Center, 2530 S. 500 East

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

Check <http://user.xmission.com/~uarc/testinfo.html> for further exam information.

Member of the Month

Richard Heward, K7K GK

By Linda Reeder, N7HVF

This month we are featuring Richard Heward K7K GK. Richard has been in amateur radio for three years. He obtained his Technician license May 19, 2010; he received his General license Oct 10, 2010; and on December 17, 2011, Richard received his Extra Class license. What a wonderful Christmas present! Richard's first call sign was KF7K GK but when he got his Extra Class license he dropped the "F," so now it is K7K GK.

Richard says he has always been interested in radio communications; it just wasn't *amateur* radio. In 1974 Richard was a CBer. He was also involved in commercial radio communications. For many years Richard has had his own car towing business and used commercial radio communications.

Richard was a branch manager for Family First Federal Credit Union. He worked with mortgage loans and he was in charge of the ATM machines.

Unfortunately, Richard's life was sadly interrupted when he learned he has a neural muscular disease. It is very painful and gets worse over time. He can walk, but not very far. He gets very tired. Richard has a power chair that takes him where he wants to go. He even has a van. Richard and his wife, Lyla, go on dates every Friday night.

It was during this time when Richard's bishop convinced him to get his amateur radio license. His bishop told him that this will enable him to help out with emergency preparedness. Richard said that getting into amateur radio was the best thing that ever happened to him. It helps him get

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his mind off of his health problems. Richard is always near the '76 repeater. He is always there to help when needed. I can remember last year when my friend Patricia and I were on our way to Manti and there were wildfires all over the place. I got on the '76 repeater and Richard told us the safest way to get to Manti and avoid the fires. It is so wonderful to know help is there when you need it. Richard also loves just to get on the air and meet new friends.

May 19, 2010, the day Richard received his Technician license, he was listening to his scanner. He heard an 11-year-old boy calling on several frequencies trying to find anyone, anywhere to talk to him. When he finally got on the '76 repeater, Richard answered his call. His name is Nate Hunt, KF7KGN. This was also the day Nate received *his* Technician license. They were both each others' first contact. Richard found other individuals Nate's age to join them on the '76 repeater.

Eventually more and more people joined them, young and old. One day someone asked Richard if they could start a radio club and would he be willing to be the president. Richard said he would be the Chairman and coordinator. They asked Richard what they should call themselves and Richard said "The 76ers" because they are on the '76 repeater. Richard is in charge of the 76ers roster. He prints a new 76ers roster every month with call signs and names of the members.

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Richard coordinates the social activities. At the end of May or early June the group has a barbecue. In September they have an ice cream social. On Saturday August 10, the group is going to have a chili cook-off at a park. The 76ers have a net every Thursday at 7 P.M..on the 146.76 repeater. Richard's first assistant of the 76ers is Doug Maurer, WE7BBQ and his second assistant is Carl Pockrus, WE7OMG. Richard is also a member of UARC

Richard's wife, Lyla, has her Technician license. Her call sign is KF7RUR. Richard and Lyla's daughter, Elizabeth, has her Technician license and her call sign is KG7EKS. Richard and Lyla have seven children: four sons and three daughters. They have ten grandchildren and one on the way.

Richard, thank for your contributions to amateur radio.

