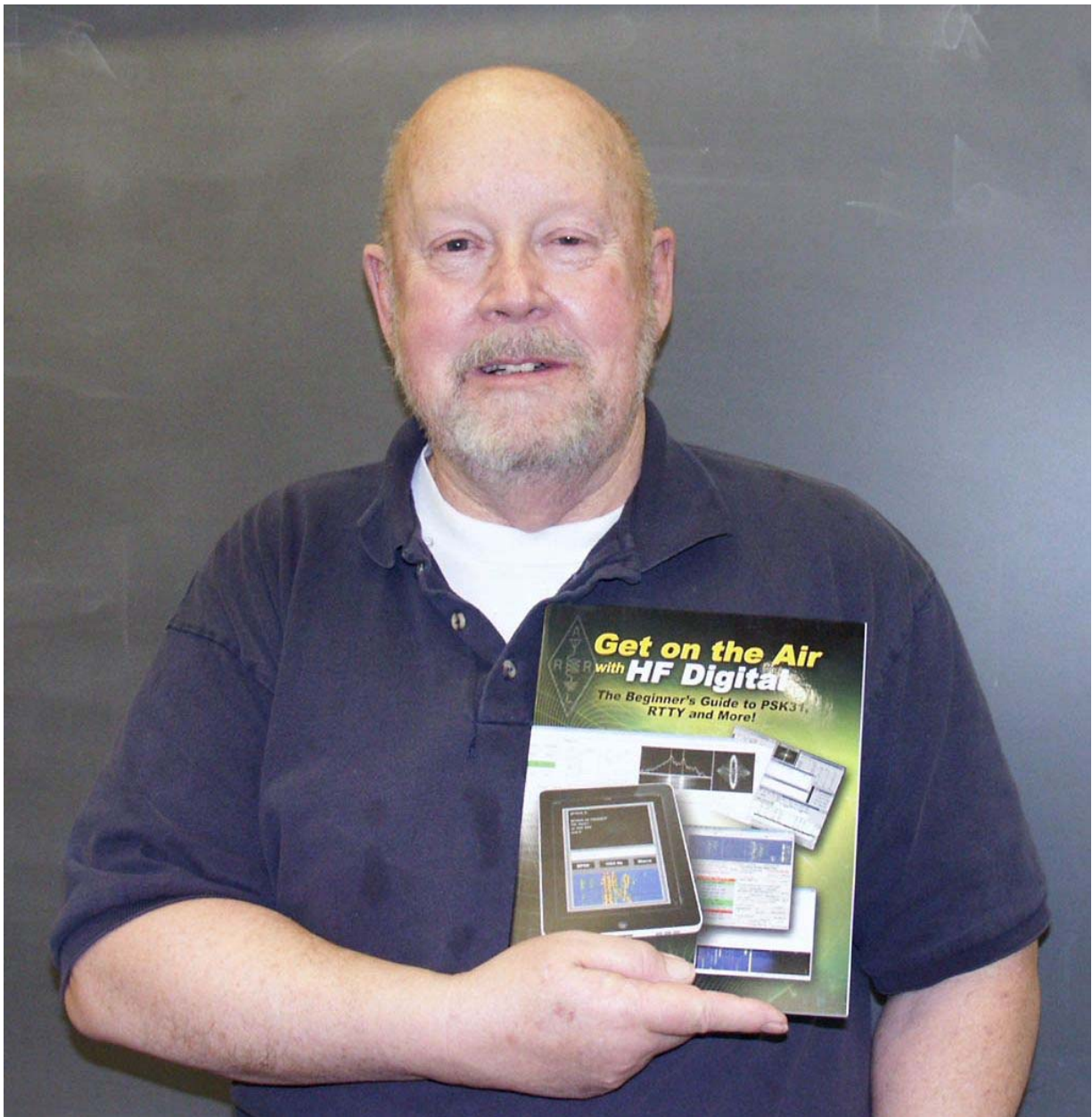


The *Microvolt*

May, 2014



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, 5474 Hews Place, Taylorsville, UT, 84129-1416.

Deadline for submissions is the 24th of each month prior to publication. Submissions by email are preferred (<mailto: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, 5474 Hews Place, Taylorsville, UT, 84129-1416.

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, 5474 Hews Place, Taylorsville, UT 84129-1416.

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 2014 Board

President: Clint Turner, KA7OEI	801 566-4497
Executive VP: Rick Asper, AC7RA	801 865-1693
Vice Pres: Brett Sutherland, N7KG	801 298-5399
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Imm. Past Pres: Linda Reeder, N7HVF	801 364-7006

Committee Chairpersons and Members

“Book Lady”: Brett Sutherland, N7KG	801 298-5399
Historian: Ron Speirs, K7RLS	801 904-3587
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
Autopatch Engineer: Gordon Smith, K7HFV	801 582-2438

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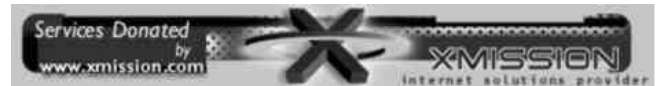
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IRLP Information

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>

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



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The Microvolt

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May Meeting: ARRL at 100

This year is the 100th anniversary of the founding of the American Radio Relay League, the national association of amateur radio operators. Back in 1914, Hiram Percy Maxim and Clarence D. Tuska organized a group that could extend the range of messages by relaying them through intermediate stations, hence the name “relay.”

Our May UARC meeting, to be held Thursday, May 8, at 7:30 P.M., will be devoted to ARRL and the centennial celebration. ARRL has played an important role in amateur radio from the beginning, saving it from extinction after World War I, fostering improvements in the technology, and sponsoring some the major operating events and awards such as Field Day, Sweepstakes, DXCC, and WAS.

There are a number of special operating events going on in 2014 that will continue through the year with a chance to earn points and certificates. Our elected Utah Section Manager (SM) for ARRL, Mel Parkes, NM7P, will be speaking at our May meeting about the centennial activities and about the activities and benefits of ARRL.

The meeting will be on Thursday, May 10, at 7:30 P.M. in room 2230 (the “Clark” classroom) of the Warnock Engineering Building.

The front elevators in the Warnock Building have the second floor locked out in the evening. There are two possible solutions for the handicapped. The first is to get into the elevator and then send an able-bodied person to the second floor to call the elevator. The second method is to find your way to the elevator in the southwest corner of the building and use it to access the second floor.

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 winter and spring, 2014, meetings are scheduled in room 2230 or 2250. See the [map](#) 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 May get-together will be at “Crown Burger,” 377 E. 200 South in Salt Lake City.

Latest News

Our Cover

Our cover this month shows Stan Gordon, K7JIZ, who presented our April meeting program on digital modes available to amateurs. Stan is holding ARRL's latest publication on the topic. (Thanks to K7RLS for the photo.)

Steak-Fry Tickets Available

As we write this, five new inches of snow have fallen at Brighton and it may seem early to think about a steak-fry in the mountains. However, there are only two regular meetings left where you can purchase tickets in person prior to the July event.

This year UARC's annual steak-fry and swap meet will take place on Thursday, July 12. Tickets are \$12 each and will be available at the May and June club meetings and also at Field Day. The price includes a full steak dinner at “The Spruces” campground in Big Cottonwood Canyon. Check with the club Secretary for more details.

Wanted: Old Timers

Do you recognize names like Hallicraters, Hammarlund, and National? Do you know what it means to “dip the final”? Have you ever converted an ARC-5? You may be just the person that our Program Chairpersons are looking for.

The folks responsible for our meeting programs are looking to put together one or two programs about what ham radio was like from 50 years back and more. Anyone with a piece of old equipment

would be welcome to take about five minutes to tell what it is, what it does, and whether it still works. There would also be a chance to participate in a panel discussion about radio in the “glow in the dark” days.

If you would be willing to participate in either or both features, contact the one of the Program Chairpersons:

Morris Farmer, AD7SR
ad7sr@comcast.net
(801) 278-4966

Chuck DeWitt, W7DTO
charlese28@msn.com
(435) 882-9002

Rocky Mountain Division Convention

The 2014 ARRL Rocky Mountain Division Convention will be held August 8-10 in Albuquerque, New Mexico in conjunction with the annual Albuquerque Duke City Hamfest. The Convention will be held at the 188-room Hotel Albuquerque, located a short walk from the city's historic old town.

Planning is underway, and here is just a taste of what to expect:

New/used ham equipment sales, manufacturers and vendors, outdoor tailgating, technical and non-technical forums, banquet meals with notable speakers, special event station, competitions, QSL

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card checking, amateur radio license exams, numerous prizes, ARRL forum, midnight Wouff Hong ceremony, satellite QSO demonstrations, a near-space balloon launch, specialized modes demos, and much more.

Special guests include:

- Mike Corey KI1U (ARRL Emergency Preparedness Manager and DXer and contesteer);
- Riley Hollingsworth, K4ZDH (retired FCC special counsel);
- Bob Heil, K9EID (owner of Heil Sound and co-host of HamNation);
- Rob Sherwood, NC0B (RF engineer); and
- Dave Jorgensen, WD5COV (contester and DXpeditioner)

For more information see:

dukecityhamfest.org.

(Thanks to the *Rocky Mountain Division Update*.)

Net Help Needed

Have you ever wanted to try your hand at net control duties? Well, there's a great opportunity out there for anyone who's interested. The UARC Information Net, which meets every Sunday night at 9 P.M. on the club's 146.62 repeater(s), is in need of more operators to serve as Net Control Stations and operators to take care of the "Other Club Information" part of the net. The commitment need only be for one session a month.

If you might be interested, contact the Net Manager, Mike Youngs, KK7VZ, (801) 573-3922, or <mailto:kk7vz@arrl.net>.

Errata

In our April issue the "Member of the Month" photo was captioned to say that Doug Bosen was at his own station. Actually, he was pictured at the

station of Morris Farmer, AD7SR, during a session of Morris' Extra Class.

Armed Forces Communications May 10

The annual communications crossband test between amateur and military stations will take place on Saturday, May 10. For details of stations and frequencies go to <http://www.usarmymars.org/> and follow the link to "announcements."

W1AW Portable Schedule

The year 2014 is the centennial year for the American Radio Relay League (ARRL). An on-air year-long celebration of the anniversary is in progress. As part this celebration, stations in various states will be signing the W1AW call and looking for contacts. The schedule for the next several weeks is as follows:

Dates	State	State
5-7	Utah	Nebraska
5-14	South Dakota	
5-21	New York	Colorado
5-28	Missouri	Wyoming
6-4	Alabama	Louisiana
6-11	Arkansas	Minnesota

Utah's W1AW/7 transmissions will be coming from the station of John Utley, K7CO, with likely a variety of operators.

For those who have yet to get their "Worked All States" (WAS) certificate, this year presents an opportunity to find all fifty states on the air from easily-heard stations on the HF bands. The portable W1AW operations are part of the "Centennial QSO Party" where operators can accumulate points in various ways throughout 2014. For full details see:

<http://www.arrl.org/centennial-qso-party>.

License Examination Schedule

Opportunities to test for new or upgraded amateur licenses

Date	Day	City	Contact Person	Phone
05/17/14	(Sat.)	Farmington	Gary L. Davis, KE7MQF	(801) 298-3127
05/21/14	(Wed.)	St. George ²	Gary O. Zabriskie, N7ARE	(435) 674-2678
05/21/14	(Wed.)	Provo	Steve Whitehead, NV7V	(801) 465-3983
05/27/14	(Tue.)	Salt Lake City ³	Eugene McWherter, N7OVT	(801) 541-1871
06/04/14	(Wed.)	Ogden	Rik Morrison, W7RIK	(801) 791-9364
06/05/14	(Thu.)	Logan	V.P. Rasmussen, N7JFG	(435) 770-0630
06/07/14	(Sat.)	Salt Lake City ^{1,4}	Gordon Smith, K7HFV	(801) 582-2438
06/14/14	(Sat.)	Hurricane ²	Gary O. Zabriskie, N7ARE	(435) 674-2678
06/18/14	(Wed.)	Provo	Steve Whitehead, NV7V	(801) 465-3983
06/18/14	(Wed.)	St. George ²	Gary O. Zabriskie, N7ARE	(435) 674-2678
06/24/14	(Tue.)	Salt Lake City ³	Eugene McWherter, N7OVT	(801) 541-1871
07/09/14	(Wed.)	Clearfield	Mike Youngs, KK7VZ	(801) 573-3922

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.

300 Hams Help Boston Marathon

from The ARRL Letter

On a beautiful New England spring day, yet under an umbrella of heightened security, more than 300 Amateur Radio volunteers provided communication support on April 21 for the 118th running of the Boston Marathon — a 26.2-mile race from Hopkinton to Boston, Massachusetts. In a show of solidarity following last year’s tragic bombings close to the finish line, a near record numbers of runners — upward of 36,000 — turned out for the Patriot’s Day event along with a huge outpouring of spectators. The Boston Marathon is a major public service event for the region’s Amateur Radio volunteers.

“We received a fantastic showing of volunteer support across the start, course, and finish line from the Amateur Radio community in the wake

of the 2013 bombings,” said Steve Schwarm, W3EVE, Boston Marathon Course Coordinator. The level of ham radio support for the 2014 event demonstrated that “Boston Strong” remains a rallying cry in the wake of last year’s tragedy, he said.

Amateur Radio communication support became critical in the aftermath of the 2013 Boston Marathon bombings, when conventional telecommunications systems, such as cellular telephone, quickly became overloaded and confusion reigned.

Locations covered included Massachusetts Emergency Management Agency (MEMA) State Emergency Operations Center (SEOC), the Boston

Marathon Amateur Net Control Center, the BAA Operations Center at Boston Public Library, and the Red Cross Disaster Operations Center in Cambridge.

Steve Schwarm said that one unsung hero of the Boston Marathon Amateur Radio Communications Team is Bob DeMattia, K1IW, whom he called “the mastermind behind an elaborate net control setup” just off the race route with a line-of-sight shot to Boston. “Through a combiner and utilization of various frequencies across 2 meters, 1.25 meters, and 70 centimeters, up to 10 Amateur Radio setups were provided at the net control location with multiple antenna

configurations,” Schwarm explained. “Bob has done this set-up work for many years.”

Paul Topolski, W1SEX, said ham radio came in handy after the Boston Fire Department was called to Boylston Street in downtown Boston following a report of a possible natural gas leak. “At almost the same time, one of the hams on the street was smelling natural gas coming from a manhole,” he said. “The fire department was looking in one place, while the ham down the street was actually at the site of the leak.”

All marathon operations secured by about 8 PM, as the last course first aid and finish-line operations closed down.

Member of the Month

Susan Brewer, N7OVG

By Linda Reeder, N7HVF

This month we are featuring Susan Brewer, N7OVG. Susan became interested in amateur radio when her husband, John Brewer, N7MFQ, passed his Novice and Technician tests January 15, 1989. John loved bringing people into the hobby. He deliberately left a ham rig on in the house when he was gone so that Susan could hear him talk wherever he went. Not only did Susan hear her husband talk, but heard many other very interesting ham radio operator as well. Susan said one of the reasons she wanted to get her amateur radio license is that her husband's business requires a lot of travel and she wanted keep in touch with him while he was on the road. Susan got her Novice license towards the end of 1989. She received her Technician license exactly one year later, on the same date that her husband passed the Novice and Technician tests.

One of the things that Susan loves best about amateur radio is the friendships she has made. She joined ARES and became good friends with Carol

McWherter, KC7LLW. Carol taught a General license class. Susan took the class and obtained her General class license. Susan obtained her General class license and her Extra Class license after they did away with the code requirements.

Another thing that Susan likes about amateur radio is being able to talk to people on two meters. Susan enjoys helping with the amateur radio test sessions. In 2001 Susan helped Carol with a class for women who were interested in getting into amateur radio. It was taught by women. This was the first women's class in the state of Utah. It could be the first women's class in the United States, but I am not sure.

Susan loves helping out in emergencies. She really enjoys being a member of ARES and likes checking into their nets. She enjoys participating in public service events such as the 24th of July parade. She enjoys Field Day. Susan is also a member of ARRL and UARC.

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Other hobbies that Susan enjoys are sewing, crocheting, and reading. She is a member of a book club. She is also a member of the daughters of the Utah pioneers (DUP).

Susan and her husband, John, have four children: three girls and one boy. Three of them have their Technician licenses: Amanda, KD7ZEK; Stephanie, KD7ZKS, and their son, Matthew, KE7AIV. Matthew was the most excited about getting his license. Susan and John's daughter Sharen started studying for her license when she was 9 years old but let other interests get in the way. Maybe someday she will get her license too. Susan's husband John's father Bill, N7QOL, also has his Technician license. John's sister, Nancy, N0UGR, and her husband, Peter Harrison, N0TSP,

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have their Technician licenses. They live in Missouri.

Susan, thanks for your contributions to amateur radio.



Susan Brewer, N7OVG