

The *Microvolt*

February, 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

President: Clint Turner, KA7OEI	801 566-4497
Executive VP: Rick Asper, AC7RA	801 865-1693
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<i>Microvolt</i> Editor: Gordon Smith, K7HFV	801 582-2438
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"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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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.



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 56, Issue 2, February 2013

February Meeting: The Lure of HF Radio

Most hams get started in the hobby with a Technician license and a VHF Handie-Talkie and may not get much exposure to the “high frequency” (HF) or short wave bands. The rumors may paint HF operation as a wonderful place where you can work stations all over the world without any help from repeaters, internet, or auxiliary links. They may also portray it as spectrum that requires a large antenna that will anger the neighbors and the county zoning commission while returning only noise, squeals, and speech that sounds like Donald Duck with laryngitis. What is the *real* HF like?

The truth is that HF has many faces. Different bands have different personalities, and there are many different modes, objectives, and sounds. Some operators have multiple 75-foot towers, while others operate surreptitiously with a wire dangled from an apartment window after dark. Some have multiple amplifiers running legal-limit power, while others use QRP transceivers that can fit in the palm of one's hand.

To give us the whole story at our February UARC program, to be held Thursday, February 14, we have someone who can speak about HF from a great depth of experience: Mark Richardson, W7HPW. Licensed since the 1980's, Mark has a great deal of experience on HF and is a serious DXer with serious antennas and one transmitter that would not fit in the hamshack of the average ham.

Topics Mark expects to cover include bands, equipment, operating, DXing, and QSLing. He will be happy to veer into other aspects on request.

Our February meeting will be in the Warnock Engineering Building, room L105. For those who remember when we met in what was called the “Engineering and Mines Classroom Building,” it's on that same floor, just a little ways down the hall. This floor is now considered part of Warnock. If you enter the Warnock building on the main floor (e.g. through the east door), you need to get to the southwest corner of the building to find the stairway and elevator that go down to the L1 level. To do this, as you enter the large open area in the middle of the main floor, notice some conference rooms along the far wall of the open area, left of the main corridor. Turn left along the pathway that goes past these rooms and follow it into a hallway that soon makes a sharp right turn. Follow the hall through the right turn and continue until you find the elevator and stairs near the end of the hall. The lowest floor accessible via the elevator or the stairs is your destination. Once there, look for room 105.

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. See the [map](#) for information on finding the building. Rooms for the Spring 2013 meetings are as follows:

January: 2230

February: L105 (Three levels down from the “main” floor)
March: 2230
April: L105

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 February get-together will be at “Charlie Chow's Dragon Grill,” 255 E. 400 South in Salt Lake City.

Latest News

Our Cover

Our cover photo this month is of Dick Leining, W7DML, at our January meeting where he gave a presentation on formal traffic handling, the national traffic system, and proper message form.

Coming on the night of a large snowstorm, the meeting was not as well attended as many, but Dick made it in with plenty of time to spare and presented to about 20 other hardy souls.

Dick tells us he needs to make a correction to his handout material. In Table 4, the frequency of the Pacific Area Net (PAN) should be 3552 kHz.

Social Media and UARC

Almost since the Internet became available to the general public, UARC has had a presence and on its web site we have long been providing information about the goings-on of both local and national amateur radio organizations. It has also been a handy reference for those interested in the inner-workings of UARC's repeaters, past issues

of *The Microvolt*, or as the place to go to join UARC or the ARRL as well as to renew your membership in each — something that you can do entirely online!

What about this “Social Media” stuff in which about one billion people in the world participate? We may be a bit slow on the uptake, but we've been working on that, too so you can now find UARC on Facebook:

(<http://www.facebook.com/UtahAmateurRadioClub>) and there you'll find announcements of club events as well as other news items. UARC also has a blog page which may be found at <http://utaharc.blogspot.com/> where we've been posting short announcements, articles and comments that are related to the club and amateur radio in general. You can find links to UARC's Facebook page and blog on UARC's web page.

Finally, we're pleased to announce the return of the “Ham Hotline,” which had been offline due to problems with our former VOIP provider, and you can call it at 801-583-3002 for information about UARC events as well as those related to amateur radio in general. If you don't get a live person,

please leave a message and we'll get back to you with the information as soon as we can!

-Clint Turner, KA7OEI, UARC President

VHF Society Swapmeet

The Utah VHF Society will be holding its 2013 Business Meeting and Swap Meet, usually the largest swap meet in the state, on Saturday, February 23. The location is new this year: Building #2 of the Legacy Events Center, part of the Davis County Fairgrounds. The address is 151 S 1100 West in Farmington.

Swapping will start at 8 A.M.; those needing to set up tables may start as early as 7 A.M. Admission is free to VHF Society members (including those willing to join at the door). There is a charge for those attending as non-members.

The Utah VHF Society is a statewide organization that promotes the construction and maintenance of repeaters, particularly those in lightly populated areas of the state where the ham population may

be small enough to need financial help to keep a repeater on the air.

For more information see:
<http://www.utahvhfs.org> .

New EC for Salt Lake County

Salt Lake County has a new Emergency Coordinator. At the January 23 in-person meeting of Salt Lake County ARES, Mel Parkes, NM7P, Utah Section Manager, announced the appointment of Norm Ross, K7NBR, (ex-KC7LNS), as the new leader.

The Amateur Radio Emergency Service (ARES) is a nationwide organization sponsored by the American Radio Relay League (ARRL). Its purpose is to train amateurs to handle emergency traffic during times when normal communications facilities may be out of service.

For more information on Salt Lake County ARES, see the web site at <http://www.slcoares.net/> .

ARRL Board Meets

(From the *ARRL Letter*)

The Board of Directors of the American Radio Relay League (ARRL) held its semi-annual meeting January 18 and 19 in New Orleans. As the largest amateur radio society in the United States, and the principal voice advocating amateur radio to government entities, ARRL's positions can have a strong impact on amateur radio's future.

Here are some highlights of the actions taken at the meeting:

Legislative Objectives: The Board set seven legislative objectives for the 113th Congress of the United States:

- To seek legislation instructing the FCC to extend the requirement for "reasonable accommodation" of Amateur Radio station antennas -- a requirement that now applies to state and local regulations -- to all forms of land use regulation.
- To oppose legislation that would lead to the reallocation of amateur spectrum or to sharing arrangements that reduce the utility of existing allocations.
- To oppose legislation that diminishes the rights of federal licensees in favor of unlicensed emitters or encourages the

deployment of spectrum-polluting technologies.

- To seek recognition of the unique resources, capabilities and expertise of the Amateur Radio Service in any legislation that addresses communications issues that are related to emergencies, disasters or homeland security.
- To support the complementary legislative objectives of other radiocommunication services -- particularly the public safety and scientific services -- that require spectrum access and protection from interference for non-commercial purposes that benefit the public.
- To oppose “distracted driving” legislation that does not clearly exempt two-way mobile radio transmitters or receivers used by FCC-licensed radio amateurs.
- To support legislation authorizing FCC Commissioners to appoint an electrical engineer or computer scientist as an additional member of their staffs to ensure that Commissioners have adequate access to technical expertise when making decisions.

Logbook of The World ad hoc Committee:

The Board voted to create the Logbook of The World (LoTW) ad hoc Committee. This committee has been tasked with reviewing policies and practices associated with how LoTW runs today (including the fixed and variable costs), issues concerning user interface and usability, and economic value of an LoTW award point or credit. The committee will provide the ARRL Board with a progress report and preliminary recommendations at the 2013 Second Meeting in July.

Symbol Rate Rule Modernization Committee ad hoc Committee: Since 1989, when the FCC’s rules concerning symbol rate

limitations were codified, digital communications techniques have rendered these limitations obsolete. As such, the Board voted to create the Symbol Rate Rule Modernization ad hoc Committee. This committee has been tasked with evaluating potential modifications to the Amateur Service rules to permit and facilitate the use and development of high symbol rate digital communications techniques. The committee will recommend modifications to the ARRL Board at the 2013 Second Meeting in July.

Scouting and Amateur Radio: Upon the recommendation of the Programs & Services Committee, the Board approved the creation of the ARRL Amateur Radio Service to Scouting Award. This square knot award will be administered consistent with the Community Organization Award program of the Boy Scouts of America (BSA). The award’s qualification criteria, nomination process, administration and implementation will be jointly determined by ARRL staff and members of ARRL’s previous ad hoc Committee on Scouting.

ARRL International Humanitarian Award:

The Board voted to bestow the 2012 ARRL International Humanitarian Award upon John Bush, KH6DLK/V63JB, of Hilo, Hawaii and Federai, Ulithi, Yap, Federated States of Micronesia. Bush was recognized for his promotion of the development and welfare to the population of the Island of Federai in the Ulithi Atoll of the Federated States of Micronesia. In addition, he was acknowledged for his efforts in the development of an electronic infrastructure on the island, including electronic technologies and Amateur Radio. The ARRL has established the ARRL International Humanitarian Award to recognize those who have used Amateur Radio to provide emergency communications on an international level.

License Examination Schedule

Opportunities to test for new or upgraded amateur licenses

Date	Day	City	Contact Person	Phone
02/16/13	(Sat.)	Hurricane ²	Gary O. Zabriskie, N7ARE	(435) 674-2678
02/20/13	(Wed.)	Provo	Steve Whitehead, NV7V	(801) 465-3983
02/20/13	(Wed.)	St. George ²	Gary O. Zabriskie, N7ARE	(435) 674-2678
02/26/13	(Tue.)	Salt Lake City ³	Eugene McWherter, N7OVT	(801) 541-1871
03/06/13	(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

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

Member of the Month

Garry Genemetes, KE7VFP

(Photo on page 8)

By Linda Reeder, N7HVF

This month we are featuring Garry Genemetes KE7VFP. Garry has been in amateur radio since 2008. It was his friend, Lynn Smith, N7XV, who got him interested in amateur radio. Garry works for Lynn's brother at Lemer Superior Auto Repair. One day at work during lunch, Garry was in his car playing with his CB radio when Lynn just happened to be there and told Garry he had something way better than CB radio to show him. Lynn showed Garry his ham equipment and even let Garry talk on the air. Garry was so impressed that he decided he was going to get his amateur license. Garry got the Gordon West books and went to work. He received his Technician license in 2008. In November, 2011, Garry obtained his General license. After upgrading to General, Garry purchased a Yeasu FT-DM.

Garry's favorite band is 40 meters. He likes rag chewing and just having fun. Garry also likes VHF simplex as it is much like talking on the low bands. It is fun to see just how far you can

communicate on simplex. With the right antenna you can talk surprisingly far.

Garry loves to build antennas and has built a homebrew HF antenna. It is 63 feet long and covers 80 through 10 meters. He calls it the NVIS which stands for Near Vertical Incident Skywave. He has it hidden behind a fence where no one can see it. He says it works a little bit better than his G5RV antenna. Garry said he plans on building a bunch of them. He is reading lots of material about building antennas.

Garry really enjoys attending the UARC meetings. He says the meetings are very educational, especially the meetings that UARC had on building antennas. He also enjoyed homebrew night. Garry is a member of UARC, VHF Society, and the ARRL.

Garry's first time attending Field Day was in June 2012. He went to Payson Lakes with his friend Hal Ruttinger, who was not a ham radio operator.

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Hal enjoyed it so much that he got his Technician license and became KF7SUY. Garry and Hal had so much fun at Field Day that they are planning on going there again this year.

Other hobbies that Garry enjoy are camping, fishing, and hanging out with his wife. Garry and his wife, Michelle, have five children: three boys and two girls. Garry is trying to get his boys interested in amateur radio.

Garry said there is so much to do in amateur radio. such as upgrading ham equipment. He is just taking it one step at a time getting on the air and having fun. That is what ham radio is all about. especially in upgrading to General license.

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Garry Genemetes, KE7SUY, at his station
(Photo by Ron Speirs, K7RLS)