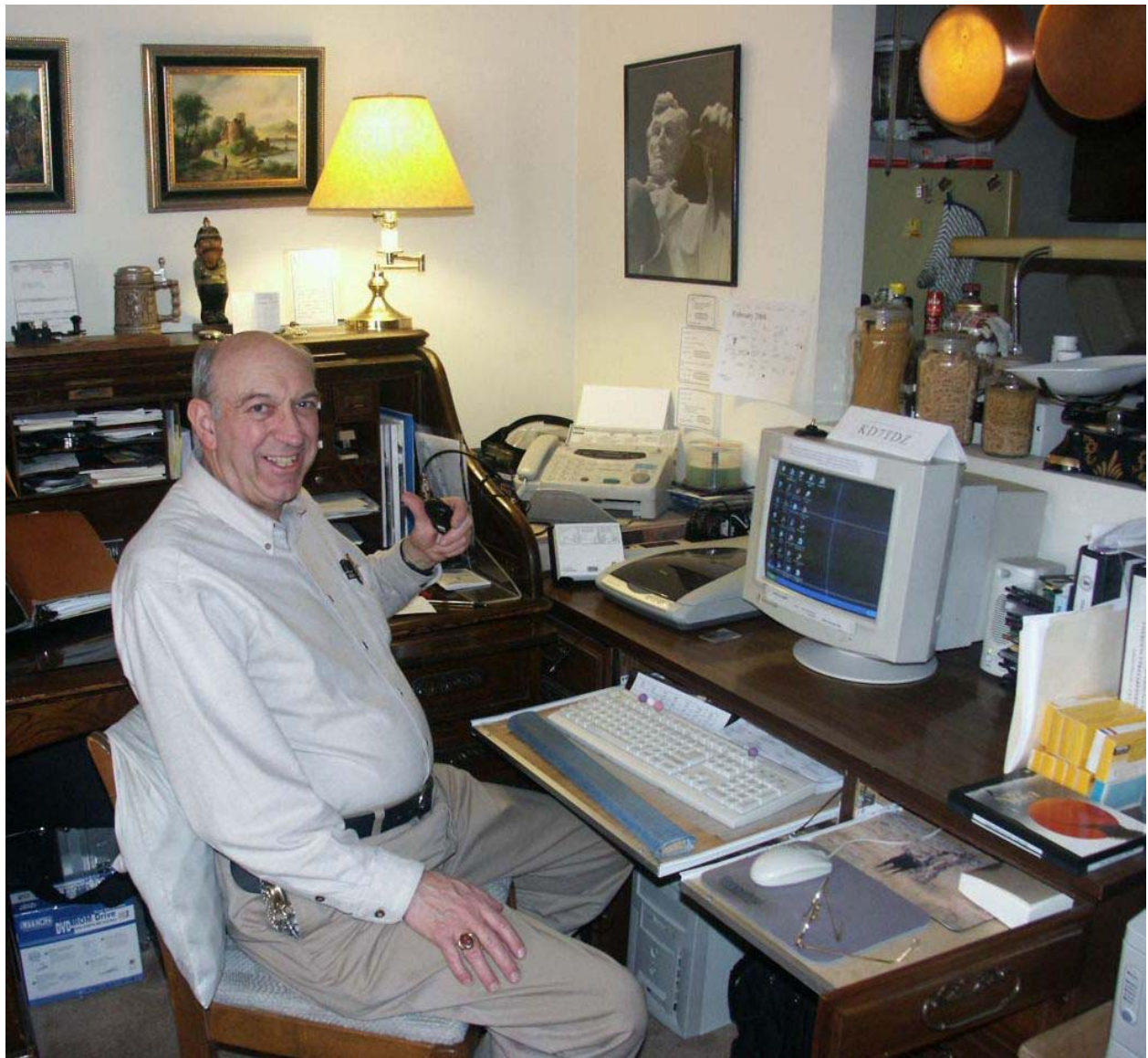


The *Microvolt*

February, 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 Kamlowksy, 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 Kamlowksy, 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 Kamlowksy, WA7ZRG, 4137 Clover Lane, Salt Lake City, UT 84124-2711.

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 Kamlowksy, 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

"Book Lady": John Brewer, N7MFK	801 386-7725
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

February Meeting:.....	3
Introduction to Antenna Modeling.....	3
Latest News.....	4
Message from the President.....	5
License Examination Schedule.....	6
Member of the Month.....	6
UARC Income and Expense Report.....	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 2, February, 2018

February Meeting: Introduction to Antenna Modeling

Past UARC President Ron Jones, K7RJ, once said “It’s great to do the calculations to find the ideal antenna, but when all is said and done, the antenna goes where the trees are.” He had a point. Our antenna choices are limited by available space, zoning rules, XYL preferences, home owners’ associations, and budgets. But wouldn’t it be nice to know up front how a real antenna placed “where the trees are” will perform, even if you can’t get the ideal height above ground, or there is a lot of metal in the neighborhood?

Now there's a way to make some educated guesses using computer simulation. There are a number of programs available for the home computer that will let you model a proposed antenna in your situation. At our February 8 UARC meeting, Jed Petrovich, AD7KG, will be giving us some of the details about antenna simulation. Jed is an active DXer and has an antenna setup better than many of us. He will be telling us what is available in simulation programs and how helpful they can be.

The meeting will take place at 7:30 P.M. on Thursday, February 8, in room 2050 (the “Robison” classroom) of the Warnock Engineering Building on the University of Utah campus.

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 up the stairs 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 (the same elevator we have been using during fall semester) 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 meetings during the University's spring semester of 2017 will be in room 2050 on the second 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 Brett or John, the “book ladies”
- 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 features our deceased club Secretary, Dick Keddington, KD7TDZ. Dick passed away on December 27 after serving as our Secretary since 2004. More about Dick on our back cover. His obituary can be found at :

<http://obits.dignitymemorial.com/dignity-memorial/obituary.aspx?n=Richard-Keddington&lc=4088&pid=187674335&mid=7699806> Thanks to our Historian, Ron Speirs, K7RLS, for the photos.

630-Meter Story to Continue

Last month we featured the first installment of KA7OEI’s article on getting on the new (630-meter and 2200-meter) bands. We had hoped to publish the second part this month, but have had to delay it because of a wealth of other material that we thought could not wait.

Clint, the author, is believed to be the first, and perhaps the only Utah operator to date to get up and running on the new bands. Last month’s installment of his article gave information on how to get a receiver running. Part 2 will get into the more difficult problem of transmitting. Look for it in our March issue.

Help Our Program Chairpersons

We have two new Program Chairpersons for 2018 and they are anxious to get started finding programs for our monthly meetings that meet our members’ needs and interests. They are more apt to do that well if they can find out what those needs and interests are! They would appreciate any input you can provide about what kinds of programs you would like to see.

Are your interests more in HF or VHF? Are you interested in homebrew, satellites, digital modes, digital voice modes, MESH, emergency communications, propagation, antennas, traffic handling, or on-air etiquette?

Let either of the chair-persons know your interests. Those chairpersons are:

Robert Jelf, KG7OHV, kg7ohv@kg7ohv.us
(385) 252-7900

Laird Severinsen, WB7TGP, wb7tgp@arrl.net
(801) 255-0834

Field Day Help Needed

One of the most popular UARC activities each year is UARC’s entry in the annual ARRL Field Day non-contest. This is an event specifically for mobile and portable stations. We typically go to a field near the Payson Lakes on the fourth weekend in June and set up HF stations to work as many similar stations as possible across the U.S. and Canada in a 24-hour period. It’s a great chance to combine a lot of ham radio operating with a family campout.

Some of the folks who have been doing various jobs for several decades are getting old and feeble. It would be good if we could get some new blood to take over some of these duties including leveling and raising the 85-foot tower, setting up wire antennas, making sure logging computers and software are in place and working, having tents and all their parts on site, making sure we have operating tables and chairs, recruiting operators, distributing power and keeping the generator running, getting our “Special User Permit” from the Forest Service, coordinating the Saturday dinner, and extracting entry data from the logs to make our submission to ARRL.

If you would like to help out on a Field Day Committee, take over one of the jobs, or even be the Chair Person who make sure all the jobs get done, contact one of the officers.

VHF Society Swap Meet Coming

The annual business meeting and swap-meet for the Utah VHF Society has been announced for Saturday, February 24, 2018. This is typically the largest swap-meet in Utah each year. It will start at 9 A.M. Those that need to set up display tables may come as early as 8 A.M. Location is the Legacy Event Center in the Davis County Fairgrounds, 151 S 1100 West, Farmington.

If you wish to join the Society or renew your membership, it is advantageous to do it prior to the swap meet. It can be done on-line. It will save you time waiting in line when you arrive and will also ensure you appear in the annual Member List and Repeater Guide which will be distributed at the event.

The VHF Society is a state-wide organizations that provides Utah frequency coordination, supports many repeaters across the state, and maintains the

Intermountain Intertie. For prices, maps, how to join, and more information, see: <http://www.utahvhfs.org/>.

Second Annual Digital Conference

Once you've memorized February 24 for the VHF Society Swap Meet, remember there's also something happening on *March 24*. That will be the date of the "Second Annual Amateur Utah Digital Communications Conference" or SAAUTCC for short. The event will be a full day of conferences and hands-on workshops about digital text modes and digital voice modes, as well as information about home construction and software.

Location is the same as last year: the conference center at the Miller campus of Salt Lake Community College. Registration fee is \$15 prior to the event or \$20 at the door. Proceeds go toward the cost of the facility.

The organizers are seeking presenters for seminars and workshops. Let them know if you are prepared to present or know of someone you can recommend.

For more information go to: <http://www.utah-dcc.org/>.

Message from the President

By Morris Farmer, AD7SR

We Need Help!

Here I am, one month into my term as Club President and already we have a crisis. As was announced at the last meeting, John Brewer, N7MFQ, has had to resign as "Book Lady" because of job commitments. Selling books is an important function that the club does and it is a source of income for the club. Some of the responsibilities of the "Book Lady" are:

1. Be available to attend virtually all club meetings.

2. Have enough room to store and transport books and kits to and from the club meetings.

3. Keep an inventory of on-hand books & kits and order adequate stock in anticipation of our needs. Order books as requested by club members.

4. Since we have the ability to take credit cards now, a laptop or cell phone that the card reader can connect to is an advantage.

5. Price the books such that they make the club a small profit but are still competitive, offer discounts on overstocked and outdated items, etc.

If you would be willing to take on this responsibility, please contact me or any other club officer.

Also, in anticipation of Field Day coming up the end of June, we are desperately looking for someone to be our **Field Day Coordinator**. Note the word “*coordinator*”, we aren’t looking for someone to do all of the work, but rather someone to make sure that each of the various tasks that need to get done to make Field Day a success has someone assigned to see that it actually happens. Fortunately, our club officers have been doing this long enough that they have put together a list of activities that need to be coordinated, so you won’t be reinventing the wheel, merely making sure it has adequate grease.

Although it might be quite helpful, it is not absolutely necessary that you’ve even participated in Field Day before, but being an organized person is extremely valuable!

Again, if you think you’d like to take on this challenge, let one of the club officers know. Remember, you won’t be by yourself doing this; we’ll be there to give you advice and help any way we can.

Hope to see you at the next meeting, antenna simulation is one of my favorite topics and, although I’m a novice at it, I try to simulate most of the new antennas I build.

73,
Morris Farmer, AD7SR, President, UARC

License Examination Schedule

Opportunities to test for new or upgraded amateur licenses

Date	Day	City	Contact Person	Phone
01/17/18	(Wed.)	Provo	Steve Whitehead, NV7V	(801) 465-3983
01/17/18	(Wed.)	St. George ²	Gary O. Zabriskie, N7ARE	N/A
01/29/18	(Mon.)	Taylorsville ³	Garth Wiscombe, W7PS	(801) 558-5936
02/03/17	(Sat.)	Salt Lake City ^{1,4}	Gordon Smith, K7HFV	(801) 582-2438
02/03/17	(Sat.)	Ogden	Rick Morrison, W7RIK	(801) 791-9364
02/10/17	(Sat.)	Hurricane ²	Gary O. Zabriskie, N7ARE	N/A
02/21/17	(Wed.)	Provo ⁵	Steve Whitehead, NV7V	(801) 465-3983
02/26/18	(Mon.)	Taylorsville 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.

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

Member of the Month

Mike Smith, KI7YPM

By Linda Reeder, N7HVF

This month we are featuring Mike A Smith, KI7YPM. It was the hardware aspect that attracted

Mike to amateur radio. He thought it would be good for emergencies but never thought he would

like talking to strangers. When Mike and his wife, Ariel, went on an Alaskan cruise, Mike talked to people from all over the world. Mike's wife said "Well, if you got your ham radio license you could talk to people all around the world that way." Mike said Ariel encouraged him to get into amateur radio.

Mike watched Technician videos for eight hours and practiced taking tests. Finally Mike said he was ready, so he went to Layton to take the test. They were giving the test in three days and he didn't want to wait any longer. Mike received his Technician license in October of last year and is thinking about upgrading. He decided to get a vanity call and chose KI7YPM. "Y" stands for "Yankee American"; "P" for "papa" because he is a Father; and "M" for "Mike," his name. Mike and his wife, Ariel, have one child, a boy.

Once licensed, Mike started getting involved. He joined UARC. He loves talking on the radio now.

Mike said he enjoys learning and trying new things. He enjoys attending UARC meetings where he obtains all kinds of information. Mike is hardware-oriented. Mike said hamming and droning are related and he needed to get his ham license to fly his drone legally.

Mike is attempting to become an Air Force pilot. He explained that when you are a drone pilot you control it on the ground, i.e., the cockpit is on the ground. Mike loves to build and fly drones. He flies racing drones.

Mike is a professional cartographer for a real estate company. He does mapping and locating places. He has worked there for about a year now. Other interests Mike has are: fire arms, aviation, building and flying drones, wilderness survival, board games, and leather working.

Mike, welcome to the hobby.

UARC Income and Expense Report 2017

Income	
ARRL Dues	568.00
Book Sales	1,791.90
Capital Equip. Sold	60.00
Dues	5,831.89
Interest Income	117.85
Steak-Fry Income	945.00
Total	9,314.64

Expenses	
Administrative	55.36
ARRL Memberships	783.00
Books	1,846.47
Field Day	1,082.25
Insurance	200.00
Meeting Expense	450.93
Microvolt Postage	600.00
Microvolt Printing	1,205.90
PayPal Fees	103.64
Repeaters	427.75
Sales Tax	290.35
Square Inc Fees	32.85
Steak-Fry Expenses	765.07
Total	7,843.57
Net Income	1,471.07

(Submitted by Treasurer Chuck Johnson, WA7JOS)

KD7TDZ SK 1942-2017

It is with deep regret that we report the passing of Dick Keddington, KD7TDZ. He served dilligently as our Secretary for almost 13 years and handled the job very well. Some of the club jobs require action only once a month, but the Secretary has to be available almost continously as folks join the club or renew their memberships, make steak-fry reservations, inquire about their expiration dates, join ARRL, submit new mailing addresses, etc.

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 Clover Lane, Salt Lake City, UT 84124-2711.



Dick always attended Field Day and brought along his laptop just in case there were any secretarial duties to be done. He loved camping in general and was famous for whipping up fancy meals that hardly anyone else would attempt to prepare in the wild.



Dick served in the U.S. Air Force, retiring as a Lt. Colonel. Part of his service was in England where he met his wife-to-be, Lynda Humphris.



He never failed to be at Steak-Fry



He even presented at homebrew night.