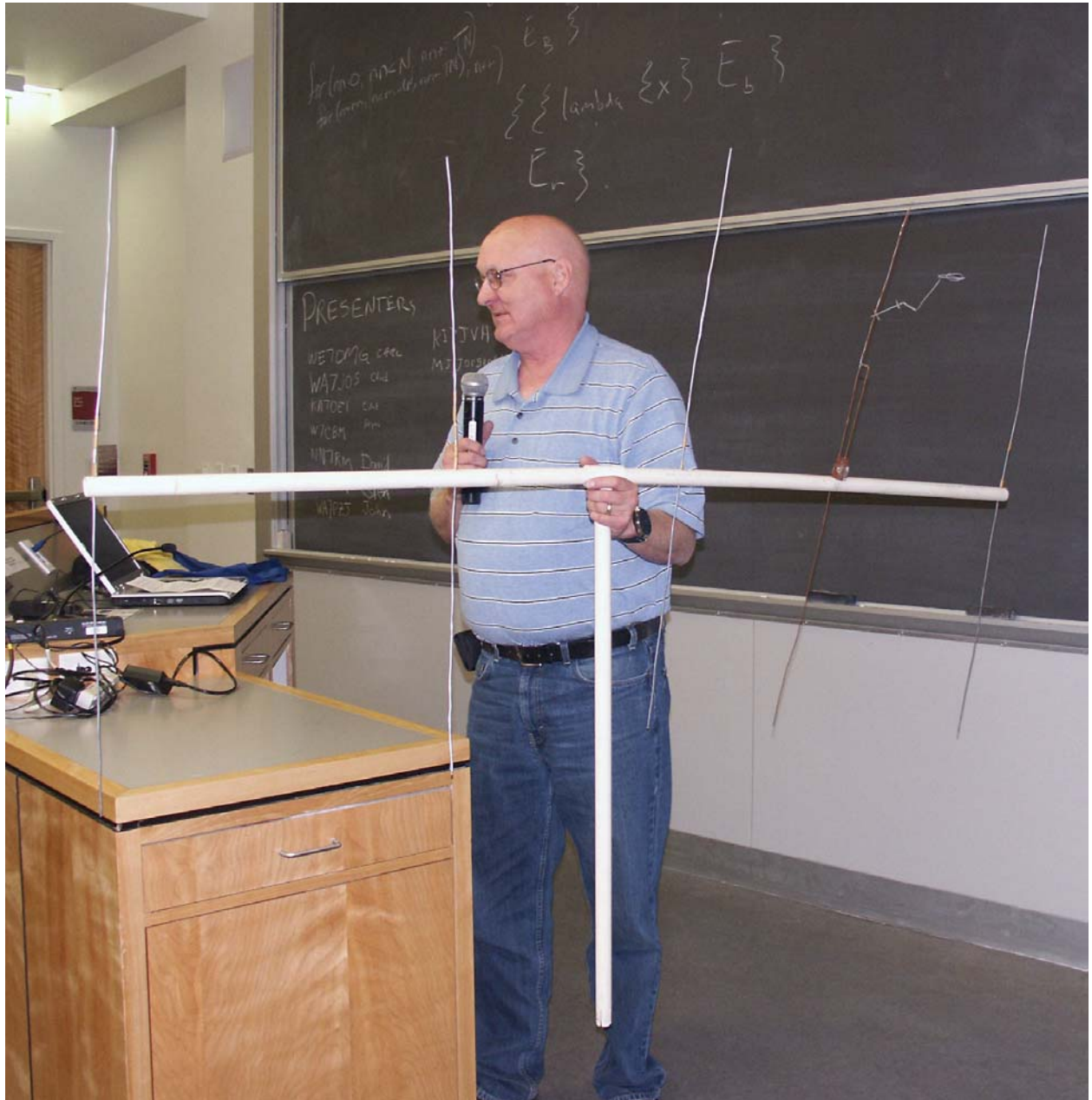


The *Microvolt*

November 2019



Prologue

Publication: *The Microvolt* (USPS 075-430) is the official publication of the Utah Amateur Radio Club, Incorporated, 632 S. University Street, Salt Lake City, UT 84102-3213. 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 2019 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: Laird Severinsen, WB7TGP	801 255-0834
Program Chairperson: Dorie Olds, AF7SD	801 674-7329
Imm. Past President: Clint Turner, KA7OEI	801 566-4497

Committee Chairpersons and Members

Bookseller: Rick Gregory, KG7GOW	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: Clint Turner, KA7OEI	801 566-4497
Autopatch Engineer: Gordon Smith, K7HFV	801 582-2438

Contents

November Meeting: FM Operating Practices	3
Plus Nominations	3
Our Cover.....	3
Latest News.....	4
License Examination Schedule.....	6
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 62, Issue 10, November 2019

November Meeting: FM Operating Practices Plus Nominations

What's the right way to operate on VHF and UHF FM? There are a lot of opinions floating around the country, many at odds with one another. At the November UARC meeting, Thursday, November 14, we will have a chance to discuss these issues. Is it OK to call CQ? How do you tell the difference between weak signal strength and low audio? Why are some stations not giving legal identification?

Gordon Smith, K7HFV, will be presenting. Having been licensed for over 60 years, he has had plenty of time to develop bad habits and he tells us he will be happy to share them with everyone and encourage them to adopt them. He will discuss different influences such as FCC requirements, standards set by ARRL, influx of CB'ers, and tradition.

The November meeting is also time for nomination of officers for 2020. The Board will present its choices and there will be an opportunity for nominations from the floor. Be thinking about who you would like to have lead the club in the coming year.

The meeting will take place Thursday, November 14, at 7:30 P.M., in room 1230 of the Warnock Engineering Building on the University of Utah campus.

UARC meetings are held on the second Thursday of each month. The room number varies with availability. See <http://user.xmission.com/~uarc/meetmap.html> for a map and information on finding the building.

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.

Our Cover

Our cover this month is from the October meeting which was “Hombrew Night.” John Gardner, WA7PZJ, shows his portable five-element two-meter Yagi made from PVC and copper wire. Thanks to Ron Speirs, K7RLS, for the photo. More of Ron’s homebrew photos can be found at:

<http://user.xmission.com/~uarc/homebrew19.html>.

Latest News

Book Pre-Ordering

It's time that the annual release of ARRL's two most popular reference books, the *ARRL Handbook* and the *ARRL Antenna Book*. Our Bookseller, Rick Gregory, KG7GOW, has announced that there is a pre-ordering plan available. Both books are available in more than one format. You can order either book in either format through the club at a savings. For full information go to:

<http://user.xmission.com/~uarc/announce.html#books>.

W7MR, SK

It is with deep regret that we announce the passing of long-time UARC member Marv Zitting, W7MR. Marv passed away on Wednesday, October 23, at his home. He was 88 years old.

Marv got his first license at age 16, and was active almost continuously since that time. He was active in traffic-handling, VHF, and DX, and was always willing to help newcomers get started.

For many years Marv enlisted his family and church friends to make a very serious entry in the national Field Day event. They almost always scored near the top of the nation.

Marv's previous calls include W7MWR, K7OAD ("only after dark"), and K7BE. Marv's wife, Rhea, had her Extra-Class license and since 2000 has had the cleverly-chosen call to complement W7MR: W7MRS.

Marv's radio experience and expertise included broadcasting. For nine years in the late 50's and early 60's he was Chief Engineer among other duties for KWHO AM and FM.

Marv had his own ideas about what constituted good operating practice. He encouraged operators

to talk over the MCW repeater ID rather than wait for it to finish. Your editor will always remember his admonition:

"It is not necessary to stand at attention with your hand over your heart while the ID runs."

Remote Site Escapes Fire

A wildfire recently came right up to the fence surrounding the site of UARC's remote HF station near Leamington, Utah. From what we can see from photos, it stopped there and left our equipment and antennas alone. There had been a report that the support for one end of the recently added end-fed half-wave 160-meter antenna had been broken, but Gary Crum, KK7DV, reports that the SWR on the feedline still looks as it had in the past. We will have to wait until someone has time to make a trip to the site to know with certainty the state of that antenna.

The remote station is available for any UARC member to use within the privileges of his license class. For more information about the station, how to use it, and how to sign up, go to:

<http://user.xmission.com/~uarc/Leamington.html>.

Future plans include adding a Yagi for the upper DX bands.

No Change to ID Rules

The FCC recently denied a petition by KK8DX to loosen the ID rules for nets and operations for public service. He had proposed that a net control be able to satisfy the identification rules for all participants by announcing a list of calls every ten minutes. Comments on the petition were strongly negative. There seemed to be general agreement that the current rules did not present a burden or obstacle and are actually helpful in letting operators know when a channel is free.

UNITED STATES POSTAL SERVICE® Statement of Ownership, Management, and Circulation
(All Periodicals Publications Except Requester Publications)

1. Publication Title
 The Microvolt

2. Publication Number
 0 7 5 - 4 3 0

3. Filing Date
 09-28-2019

4. Issue Frequency
 Monthly except August

5. Number of Issues Published Annually
 11

6. Annual Subscription Price
 \$20.00

7. Complete Mailing Address of Known Office of Publication (Not printer) (Street, city, county, state, and ZIP+4®)
 632 S University St., Salt Lake City, UT 84102-3213

Contact Person
 Gordon Smith
 Telephone (include area code)
 (801) 562-2438

8. Complete Mailing Address of Headquarters or General Business Office of Publisher (Not printer)
 632 S University St., Salt Lake City, UT 84102-3213

9. Full Names and Complete Mailing Addresses of Publisher, Editor, and Managing Editor (Do not leave blank)
 Publisher (Name and complete mailing address)
 Utah Amateur Radio Club, Inc., 632 S. University St., Salt Lake City, UT 84102-1282

Editor (Name and complete mailing address)
 Gordon R. Smith, 632 S University St, Salt Lake City, UT 84102-3213

Managing Editor (Name and complete mailing address)
 Rick Asper, 3915 S. 1915 East, Salt Lake City, UT 84106-3850

10. Owner (Do not leave blank. If the publication is owned by a corporation, give the name and address of the corporation immediately followed by the names and addresses of all stockholders owning or holding 1 percent or more of the total amount of stock. If not owned by a corporation, give the names and addresses of the individual owners. If owned by a partnership or other unincorporated firm, give its name and address as well as those of each individual owner. If the publication is published by a nonprofit organization, give its name and address.)
 Full Name Complete Mailing Address
 Utah Amateur Radio Club, Incorporated 632 S University St., Salt Lake City, UT 84102
 (Non profit corporation --- No stock)

11. Known Bondholders, Mortgagees, and Other Security Holders Owning or Holding 1 Percent or More of Total Amount of Bonds, Mortgages, or Other Securities. If none, check box None
 Full Name Complete Mailing Address
 None Complete Mailing Address

12. Tax Status (For completion by nonprofit organizations authorized to mail at nonprofit rates) (Check one)
 The purpose, function, and nonprofit status of this organization and the exempt status for federal income tax purposes:
 Has Not Changed During Preceding 12 Months
 Has Changed During Preceding 12 Months (Publisher must submit explanation of change with this statement)

13. Publication Title
 The Microvolt

14. Issue Date for Circulation Data Below
 October, 2019

15. Extent and Nature of Circulation		Average No. Copies Each Issue During Preceding 12 Months	No. Copies of Single Issue Published Nearest to Filing Date
a. Total Number of Copies (Net press run)		252	263
Mailed Outside-County Paid Subscriptions Stated on PS Form 3541 (Include paid distribution above nominal rate, advertiser's proof copies, and exchange copies)			
(1)		88	65
b. Paid Circulation (By Mail and Outside the Mail)			
Mailed In-County Paid Subscriptions Stated on PS Form 3541 (Include paid distribution above nominal rate, advertiser's proof copies, and exchange copies)			
(2)		171	176
(3) Paid Distribution Outside the Mails including Sales Through Dealers and Carriers, Street Vendors, Counter Sales, and Other Paid Distribution Outside USPS®			
(4) Paid Distribution by Other Classes of Mail Through the USPS (e.g., First-Class Mail®)			
c. Total Paid Distribution (Sum of 7b(1), (2), (3), and (4))		229	240
d. Free or Nominal Rate Distribution (By Mail and Outside the Mail)			
(1) Free or Nominal Rate Outside-County Copies included on PS Form 3541			
(2)		3	3
(3) Free or Nominal Rate Copies Mailed at Other Classes Through the USPS (e.g., First-Class Mail)			
(4) Free or Nominal Rate Distribution Outside the Mail (Carriers or other means)			
e. Total Free or Nominal Rate Distribution (Sum of 7d(1), (2), (3) and (4))		3	3
f. Total Distribution (Sum of 7e and 7c)			
		232	243
g. Copies not Distributed (See instructions to Publishers #4 (page #3))			
		20	20
h. Total (Sum of 7g and g)			
		252	263
i. Percent Paid (1% divided by 7f times 100)			
		98.7%	98.9%

* If you are defining electronic copies, go to line 10 on page 3. If you are not defining electronic copies, skip to line 17 on page 3.

UNITED STATES POSTAL SERVICE® Statement of Ownership, Management, and Circulation (All Periodicals Publications Except Requester Publications)

16. Electronic Copy Circulation

Average No. Copies Each Issue During Preceding 12 Months	No. Copies of Single Issue Published Nearest to Filing Date
a. Paid Electronic Copies	23
b. Total Paid Print Copies (Line 15c) + Paid Electronic Copies (Line 16a)	289
c. Total Print Distribution (Line 15f) + Paid Electronic Copies (Line 16a)	240
d. Percent Paid (Both Print & Electronic Copies) (16a divided by 16c x 100)	98.9%

I certify that 50% of all my distributed copies (electronic and print) are paid above a nominal price.

17. Publication of Statement of Ownership

If the publication is a general publication, publication of this statement is required. Will be printed in the November, 2018 issue of this publication. Publication not required.

18. Signature and Title of Editor, Publisher, Business Manager, or Owner

Date 09-28-2018

I certify that all information furnished on this form is true and complete. I understand that anyone who furnishes false or misleading information on this form or who omits material or information requested on the form may be subject to criminal sanctions (including fines and imprisonment) and/or civil sanctions (including civil penalties).

License Examination Schedule

Opportunities to test for new or upgraded amateur licenses

Date	Day	City	Contact Person	Phone
11/13/19	(Wed.)	Provo ⁵	Steve Whitehead, NV7V	(801) 465-3983
11/20/19	(Wed.)	St. George ²	Gary O. Zabriskie, N7ARE	N/A
11/25/19	(Mon.)	Taylorsville ^{3,5}	Garth Wiscombe, W7PS	(801) 558-5936
12/04/19	(Wed.)	Clearfield	Joe Girauda, N7JEH	(775) 777-4798
12/07/19	(Sat.)	Salt Lake City ^{1,4}	Gordon Smith, K7HFV	(801) 582-2438
12/07/19	(Sat.)	Logan	Richard D. Elwood, KE7GYD	(435) 770-7050
12/07/19	(Sat.)	Hurricane ²	Gary O. Zabriskie, N7ARE	N/A
12/19/19	(Wed.)	Provo ⁵	Steve Whitehead, NV7V	(801) 465-3983

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

Linda Reeder, N7HVF

(Part 1)

By Linda Reeder, N7HVF

Last month when I interviewed Tammy Aho, KF7OGP, she said she would only let me interview her if I would tell my own story the next month. So, this month we will be featuring *me*, Linda Reeder, N7HVF. Here is my story.

In the 1980s I was working two jobs: one at the Salt Lake County Health Department where I am still working, and part time for KSL radio. I would screen the calls for the *Bob Lee Magazine*, *Public Pulse* and *Cougar Call-in*. It was Randy Finch, K7SL, one of the KSL engineers, who got me interested in amateur radio. One night Randy gave me a ride home from work and he demonstrated his amateur radio station. I was amazed at how good it sounded. It wasn't full of static like CB radio. I told Randy that I talked on my Grandfather's CB radio and I didn't like the filthy language. Randy said if anyone uses bad language on amateur radio they are fined big, big, bucks!

Randy wanted me to take an amateur radio class that met in the evenings but I couldn't because of my job at KSL radio. Instead, I took a correspondence class in amateur radio from the Haddley School for the Blind in Winnetka, Illinois.

During this time Randy Lawrence, KG7GI, and Otto Casal, KA7VTG, were hired into the KSL Radio Engineering department. Randy wanted them to get involved in amateur radio as well. We studied together and it was a lot of fun. In October of 1985 Randy gave me my Novice test. I passed the Morse Code but messed up on the theory. Randy said I had to wait 30 days and take the whole thing all over again, even the Morse Code. I was not a happy camper.

In November I took it again and passed. I started studying for the Technician test. Bill Gibson at the

Center for the Blind got his secretary to put the technician pool questions into braille. It was in two volumes. I still have it for memorabilia. On Saturday, December 14th, I passed my Technician test. After the session Randy whispered to Gordon, K7HFV,

"Should we tell her about the money?" They asked me if I would like to join UARC. I said yes. I think it was only 10 dollars a year back then.

I was soon having lots of fun talking on two meters. My first hand-held radio was an Icom which had only ten memories. It was a big thing to carry around but it went with me everywhere. One night at KSL, Randy told me to call Ron Jones. Randy told me his call sign, K7RJ. Ron used to work with us at KSL. Randy said:

"Don't tell him who you are. Let's see if he can figure it out." I kept calling him. Finally he said,

"Who keeps calling me?" I gave him all kinds of hints. Finally I told him who I was. He was quite surprised.

In the spring of 1986 I went to California to visit my friend, Pam Maton, who was graduating from a junior college in California. While I was there I talked on ham radio. I met Anne Wright who had a ham radio business. She made shirts with ham call signs on them. She also made mugs and hats. I called her on the land line and ordered shirts and mugs for Randy Finch, K7SL; Randy Lawrence, KG7GI; and Otto Cassal, WA7VTG, for helping me get into amateur radio.



Linda Reeder, N7HVF at a club meeting

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, 632 S. University St., Salt Lake City, UT 84102-3213. 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

While I was recovering I discovered that I had to learn the Morse Code all over again. I was not happy about that. It had been a lot of work and I failed several tests.

(To be continued)

Anne and I became very good friends. She let me talk on her HF rig. We got on the Kiddlehopper Net on 7268.5. She introduced me to Roy McFall, KF6GPU. Roy got permission from Red Skelton to use the “Kadidlehoppers” name for the ham radio net. It was an informal net; they call it rag-chewing. I knew then that I wanted to get my General license so I could become a part of the Kadidlehoppers net. All I had had to do was pass the 13 word per minute Morse Code test.

However, my plans were interrupted by an aneurysm on the left side of my head. The doctors didn't think I would live. While I was recovering at my parents' house my friends would ask me “Why don't you get on the radio?” I was afraid I wouldn't remember people's call signs. Otto came to the rescue. He called my parents and asked if they could tell me to get on the 146.62 repeater. The operators there welcomed me back to the living. It was so good to talk to them.



Tammy Aho, KF7OCP
(October's Member of the Month)
Thanks to Ron, K7RLS, for photos