



The MICROVOLT

Volume XLVI Issue 11, December 2002

Periodicals Postage Paid

PLEASE SEND DUES TO:

U.A.R.C.

c/o Gregg Smith

7546 S. Uranium Dr.

West Jordan, UT 84084-3942

THE MICROVOLT (USPS 075-430) is published monthly except August for \$15.00 per year or \$1.50 per issue by the Utah Amateur Radio Club, 3666 South State Street, Salt Lake City, UT 84115-4848. Periodicals Postage Paid at Salt Lake City UT. POSTMASTER: Send address change to "The Microvolt", c/o Gregg Smith, 7546 Uranium Dr., West Jordan, UT 84084-3942.



The House That UARC Built

Chuck Johnson, WA7JOS has asserted: "it's amazing what one can do with a few dollars in wood and a thousand dollars in power tools."

If you absolutely must know how many Hams it takes to build a shed, see page 3.

Prologue

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 first Thursday of the month at 7:30 PM in the Engineering Mines Classroom Building (EMCB), Room 101, on the campus of the University of Utah in Salt Lake City.

Membership: Club membership is open to anyone interested in amateur radio; a current license is not required. Dues are \$15 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 \$15 may obtain a membership without a *Microvolt* subscription for \$9. Send dueto the Club Secretary: Gregg Smith, K7APW, 7546 S. Uranium Dr., West Jordan, UT 84084-3942. ARRL membership renewals should specify ARRL Club #1602.

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 the 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-) has Autopatch facilities on both the Orem exchange (covering Santaquin to Lehi) and the Salt Lake City exchange (covering Draper to Layton). The 449.10 repeater has autopatch facilities available to UARC members into Salt Lake City only. Due to the volume of traffic, only mobiles should use this autopatch. Autopatch use is open to all visitors to our area and to all club members. Non-members who wish to use the autopatch are encouraged to help with the cost of maintaining the equipment by joining the club.

Ham Hot-Line: The Utah Amateur Radio Club (UARC) has a Ham Hotline, (801) 583-3002. Information regarding Amateur Radio can be obtained, including club information, testing, meeting information, 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.

Publication: The *Microvolt* is the official publication of the club. Deadline for submissions to the *Microvolt* is listed under "Submission Schedule of Editorial Content for The *Microvolt*." Submissions by email are preferred (K7CPM@arrl.net), but other means including diskettes and typewritten submissions can be mailed directly to Associate Editor Ted Cowan, K7CPM, 1889 E Foxmoor Place, Sandy, UT 84092. All submissions are welcome but what is printed and how it is edited are the responsibility of the Editor and the UARC board. Reprints are allowed with proper credits to The *Microvolt*, UARC, and authors. Changes in mailing address should be communicated to the Club Secretary: Gregg Smith, 7546 S. Uranium Dr., West Jordan, UT 84084.

UARC 2002 Board

President: Mark Richardson, K7HPW	465-7650
Exec VP: Brett Sutherland, N7KG	298-5399
Vice Pres: Gordon Smith, K7HFV	582-2438
Secretary: Gregg Smith, K7APW	255-0344
Treasurer: Chuck Johnson, WA7JOS	268-0153
Microvolt Editor: Bruce Bergen, K17OM	943-1365
Asst. Microvolt Editor: Bruce Leonard, KJ7HZ	576-9162
Program Chair: Steve Baxter, K7SRB	265-9655
Program Chair: Lauri McCreary, K7LMM	571-5759
Imm. Past Pres.: Dick Abbott, K7MZ	943-0370

Committee Chairpersons and Members

Assoc. Microvolt Editor, Ted Cowan, K7CPM	231-1655
Book "Lady": Fred DeSmet, K17KM	485-9245
Historian: Ron Speirs, K7RLS	968-4614
Field Day Chair: Brett Sutherland, N7KG	298-5399

Repeater Committee

Trustee: Tom Schaefer, NY4I	501-0899
Engineer: Randy Finch, K7SL	277-7135
ATV Engineer: Clint Turner, KA7OEI	566-4497
Board Liaison &	
Autopatch Engineer: Gordon Smith, K7HFV	582-2438
Provo Autopatch Host &	
ATV Engineer: Dale Jarvis, WB7FID	224-3405
Repeater Monitor: Allen Wright, N7QFI	268-8482

Exam Schedule

11/29/02 (Fri.) Roosevelt
Contact: R Chandler Fisher W7BYU
Phone: (435) 722-5440

12/07/02 (Sat) Salt Lake City
Contact: Gordon Smith, K7HFV
Phone: (801) 582-2438
Work Phone: (801) 534-8116

12/11/02 (Wed) Mantua
Contact: Jim Jones, KJ7VO
Phone: (435) 723-1947

12/14/02 (Sat.) Logan
Contact: Clyde A. Best, AC7KN
Phone: (435) 563-9492

12/18/02 (Wed) Provo
Contact: Steve Whitehead, NV7V
Phone: (801) 465-3983

(Last Tuesday test in Salt Lake City omitted in December.)

(Mantua exam omitted in January)

For more detail either call the contact or checkout the information on our webpage
<http://www.xmission.com/~uarc/testinfo.html>

Submission Schedule of Editorial Content for The *Microvolt*

The *Microvolt* editorial team has made a commitment to providing the club membership with a quality publication that will be in your hands prior to the meeting of the publication month. This means you should be able to count on being reminded of upcoming meetings and events before they happen. In order for this to happen we must have two things: quality material submitted to the associate editor, Ted Cowan, K7CPM, and submitted prior to the deadlines listed below.

Meeting Submission Deadline

Thu Nov 7	Wed Oct 16
Thu Dec 5	Tue Nov 12
Thu Jan 2	Fri Dec 6
Thu Feb 6	Tue Jan 14
Thu Mar 6	Tue Feb 11

This schedule will be revised and published in subsequent issues of The *Microvolt*. We sincerely hope that this will help those who wish to make submissions make our deadlines.

The *Microvolt* Editorial Team -Bruce -K17OM., Ted K7CPM, and Bruce, KJ7HZ

More on Editorial Content Submission Standards

The *Microvolt* Editorial Team wishes to make submitting documents for potential publication as easy as possible. A contributor or writer should feel free to submit text, preferably via email, in any format, within reason, of popular wordprocessors they are comfortable using. Writers should keep in mind that the Editors in producing The *Microvolt* use a standard font and layout. All submitted material used will be stripped of formatting and converted to these standards. Please keep your formatting of submitted documents as simple as possible. Simple ASCII text is easiest to handle - the less stripping we have to do, the less time it takes to prepare.

Electronic files for graphics, photos, and spreadsheets will be accepted in most standard formats without problem, though to avoid potential problems please check first. □

Net Schedule

VHF Nets

Day	Time	Freq.	Name/Purpose
Sun.	2100	146.62 MHz	Utah Amateur Radio Club Information Net
Mon.	2100	147.18 MHz	High Valley Net (Ragchew)
Mon.	2100	144.25 MHz	Weekly 2-meter SSB net
Tues.	1900	146.98 MHz	West Desert Amateur Radio Club & 145.37 MHz
Tues.	1930	146.90 MHz	Ogden Amateur Radio Club
Tues.	2000	146.94 MHz	Utah VHF Society (business and swap)
Tues.	2100	147.34 MHz	Utah Valley Amateur Radio Emergency Service
Tues.	2100	146.72 MHz	Bridgerland Amateur Radio Club Net
Wed.	2000	146.88 MHz	SL County Amateur Radio Emergency Service
Wed.	2000	145.43 MHz	Utah Box Elder -Thiokol Net & 145.20 MHz & 448.43 MHz
Wed.	2100	146.74 MHz	Mercury Amateur Radio Association, SL area
Wed.	2100	145.49 MHz	Mercury Amateur Radio Association, Ogden area
Wed.	2100	145.37 MHz	Mercury Amateur Radio Association, Provo area
Wed.	2100	50.125 MHz	Weekly six-meter net
Thu.	1900	147.42 MHz	Davis County Amateur Radio Club & 449.925 Mhz

HF Nets

Day	Time	Freq.	Name/Purpose
Daily	1230L	7272 kHz	Beehive Utah Net (formal traffic handling)
Daily	0200Z	3937 kHz	Farm Net (Same UTC summer and winter)
Daily	1930L	3708 kHz	Utah Code Net (formal traffic handling)
Sat.	1100L	7272 kHz	Quarter Century Wireless Association (QCWA)

Contents

Prologue	2
QST From the Prez:	3
On The Cover: The House That UARC Built	3
75th Anniversary Station Report	3
Featured of the Month: Richard Leach, KJ6TL	4
November Meeting: HandiHams	4
2003 UARC Board Nominees	4
2003 UARC Board Nominees (continued)	5
75 Years of UARC	6
Jerry Bennion's General Upgrade Class	7
December Meeting: VHF/UHF and Elections	7
73 For Now	7
Utah Amateur Radio Licensee Honor Roll	8

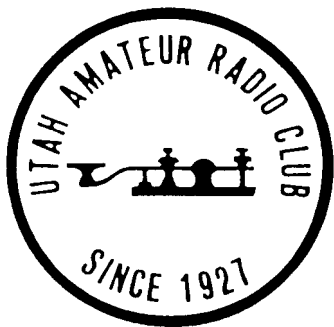
For net times and frequencies, testing details and late breaking news listen to the UARC Information Net Sundays at 21:00 on 146.62 or set your browser to: www.xmission.com/~uarc/announce.html □

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.

Copyright © 1999 XMission L.L.C. □



The Microvolt

The Official Publication of the Utah Amateur Radio Club, Salt Lake City, Utah

Volume XLVI, Issue 11, December 2002



Photo: Ron Speirs, K7RLS

QST From The Prez

There is, in calculus, a certain type of problem that runs something like this: A hundred people are in a small room with limited ventilation. Given the size of the room, the amount of fresh air admitted per hour, and so on, the problem is to find what the composition of the air will be at the end of three hours. Most of can guess what the air will be like in there, and are very glad to go no further into the matter. However if you must calculate it, you start by remembering, "What goes in must come out". Only when this rule is applied to the flow of air does the problem make sense.

It is not my propose to discuss calculus here, but I believe that the rule does have pretty general application. What you get out of Amateur Radio depends on what you put into it. You can buy enough equipment to dress a dealer's window, and what you get will be window dressing. You can add accessories until your station is a gadgeteer's delight, and you will get just that.

Everything in life depends on our contribution. A wise man once said that "that which ye sow, so shall ye reap". Those of you sit back and watch the world go by with out becoming involved, miss

out on some of the choicest experiences.

This past year as your president of our club has been one of those choice experiences. Why? Because of the above, those that contribute to Amateur Radio gain the most. As president of the club I have benefitted the most. Many of you know just what I am talking about. Many of you have served or continue to serve.

My thanks goes out to those members of the club, and I don't think I can exclude any member, that have made UARC one of the best Amateur Radio organizations that I have ever had the privilege be associated with.

Warmest 73's for this holiday season,

Mark, W7HPW.

On the Cover: The House That UARC Built

This month, an 8 by 12 foot storage shed was built to house the UARC generator and other equipment. Jerry Bennion, WR7N, volunteered the space at his residence to build the shed. We began with a full day of construction on Saturday October 19. Shingles were installed after work on Tuesday, finishing at dusk, and just as it started to rain. The shed was painted on Friday, and the second half of the roof over the trailer was constructed November 2. Some used metal shelving was procured and installed on Nov 16. We now have a secure place to store our Field Day and other emergency gear.

Those helping with the project were:

Gregg Smith, K7APW
Jordan Smith, KD7COO
Roy Smith, K7YPG
Mike Bohn, KD7MVK
Chuck Johnson, WA7JOS
Theron Johnson, KD7IDG
Lauri "Mac" McCreary, K7LMM

Brett Sutherland, N7KG
Dave Jeffs, KK7WI
Ron Speirs, K7RLS
Dick Abbott, K7MZ

Gregg & Chuck planned and designed the structure. Special thanks to Gregg for extra effort in gathering up much of the material and delivering it to the site.

Chuck Johnson, WA7JOS

75th Anniversary Station Report

Mark Richardson, W7HPW, reports that the 75th Anniversary Station was a rousing success. Mark reports:

490 QSO's logged
44 States
33 Countries
all Continents (Shall we apply for a WAC?)

Mark remembers a particularly interesting situation involving a QRP station. "After about 2 hours of trying to break the pileups, Rich Ardolino, K2CPE tried a different approach. He looked up the club on the web and called our Ham Hotline. Linda, N7HVF, gave Rich my number, He called and talked to Carol, W7CDR, and asked us to stand by for his call, K2CPE QRP. Most of the day was fast and furious and everybody had a good time."

Mark, W7HPW

REMINDER

UARC meetings are now being held at the **Engineering Mines Classroom Building (EMCD), room 101**, on the campus of the University of Utah.



Photo: Ron Spells, K7RLS

Feature of the Month: Richard Leach, KJ6TL

This month we are featuring Richard Leach, KJ6TL. Richard has been in the hobby for 14 years. Richard was living in southern California when he got his license. A close friend, Don Zeigler, N6REU was taking a ham radio class and convinced Richard to come along. While in California Richard obtained his Advanced license. His wife Peggy KC6SUO got her novice license a couple of years later. It wasn't until they moved to Salt Lake City that Peggy upgraded to a Tech Plus.

Richard and his wife Peggy have 4 children 2 boys and 2 girls. His son-in-law Tony KD7KCA has his Technician license.

Richard works for the Post Office in the maintenance department. He works with 13 electric trains which moves the mail to where it needs to go.

Richard is active on the low bands. He spends most of his time on 17 meters. He enjoys talk to so many diverse people. He likes to learn about other cultures and their way of life. Richard really gets excited when he gets the opportunity to meet some of the people he talks to.

Another hobby that Richard loves is fishing. Richard says that fishing and DX is about the same, because you never know what you are going to catch. Richard has 2 meter equipment on his fishing boat. When he had a sail boat he had a low band rig on it. Unfortunately he doesn't have his sailboat any more.

Richard is a member of UARC. Richard says he is paid up to the year 2010. He says he may even increase it.

73 N7HVF, Linda Reeder

November Meeting: HandiHams

The November meeting was a busy one. We received board nominations for the upcoming year, auctioned off a bunch of cool amateur gear, and were moved by a presentation from Linda Reeder, N7HVF. Linda spoke on the opportunities available in Amateur Radio for HandiHams, Amateurs with disabilities. She showed two videos, Courage in the North, a documentary on a HandiHam camp in Minnesota, and Courage on the Coast, a film on a similar camp in California.

Pictures of the auction are found elsewhere in this issue, so look around and see what was being sold. By the way, I am normally immune to swap meets, but N7RJ's auctioneering talent was too much even for me. I practically stole a straight key, which I will be making available to a friend trying to learn the morse code. It's a great time to be a ham!

Ted, KC7PM

2003 UARC Board Nominees

President:



Brett Sutherland - N7KG
ex/KC7WRR

I've had a long interest in radio, beginning in my

early teens. While fascinated by radio since then, I didn't become licensed until 1997. I've thoroughly enjoyed the hobby. My emphasis has been mobile HF. It helps pass the time and keep me awake when I travel. My other interests are homebrewing, contesting, and cw. I hope to start working other digital modes in the near future.

This past year has been great fun. I didn't

really get to know the other hams in the area until I worked side by side with them. I can't think of a better hobby and very much look forward to the upcoming year.

Executive Vice President:



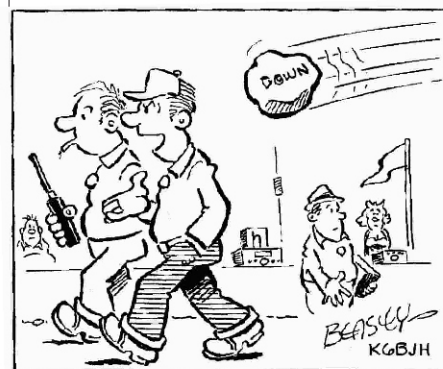
Laurie "Mac" McCreary, K7LMM

I am running for Executive Vice President for many reasons, such as giving back to the

hobby and helping others. I would like to get to know more of the club members, interacting with them, planning events and trying to make UARC a better club. I would like to move the club in a new direction, doing things we haven't done in awhile. We are the oldest and largest club in the state, and we should act like it. Along with nominee Brett Sutherland, I am toying with the idea of putting together committees of elmers, testers, and others with special Amateur Radio interests to share with club members. Some of these people may not be regular club meeting attendees.

We need to do a better job of recruiting new hams into the club. One project I am willing to take on is the New Ham Packet, a special edition of the Microvolt congratulating the new ham and inviting them to join the club. This packet would be mailed to every new ham in Salt Lake County. I would like to be really aggressive helping hams upgrade. I have enjoyed this year as a program chair, and I hope we have brought in programs that were both entertaining and helpful.

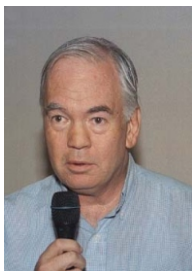
(Continued on page 5)



BEASLEY K6BJH

2003 UARC Board Nominees (Continued from Page 4)

Vice President:



**Gordon Smith,
K7HFV**

(The following was plagiarized from the December 1998 Microvolt)

I was first licensed almost 40 years ago as a teenager, and ham radio continues to be my favorite hobby. I joined UARC in the early 1960's and had become editor by 1963. After something over 15 years in that position, the other officers started looking for positions that might keep me occupied but in which I couldn't do as much damage. At various times I have been Assistant Editor and Vice-President. I seem to remember being President one year, which is odd, because I can't ever remember agreeing to run for that office.

The two Vice-President positions are officially the line of succession in case the President dies, resigns, moves away, or just refuses to perform his duties. Since most of our presidents have been healthy and quite capable of doing the job, the reality has usually been a little different. In practice, the Vice-Presidents take on some of the jobs that aren't explicitly given to another officer.

For my part, I have been running the series of UARC-sponsored exam sessions since ARRL-coordinated exams became possible in the early 1980's. We offer tests on the first Saturday of each month for all classes of amateur license. We pioneered (in Utah, at least) the notion of giving the code tests through headphones (to eliminate room echoes), and regenerating the code on a local, sine wave, soft-keyed oscillator, to eliminate tape printthrough and allow a choice of pitches. If elected, I hope to continue that series, and to continue contributing to the club's web site and to *The Microvolt*.

Secretary:



**Gregg Smith
K7APW**

I have been a member of Uarc since 1998. The club has provided many opportunities to learn new insights to

the Amateur radio hobby. The most enjoyable part of this hobby is the new people I have met along the way. I have met many new people on the air, or at club meetings.

My most memorable times are the good times spent working on a project, or serving on the Board. The way to build relationships is through service to, and with others. This year we have experienced some great times together. The Olympic special event station, the QSL party, field day, steak fry, Uarc shed Project, and the 75th Anniversary special event station have all been great fun, with good friends.

The above mentioned experiences make me willing to run for the position of Secretary for the year 2003. But..... I am also willing to stand down and train another volunteer to replace me.

I am the parent of three boys, and one grandson. I am self employed and works as a General Contractor. My other interests are Photography, Dutch Oven cooking (and eating), Jazz music, oldies rock and roll, and all Gadgets with blinking lights (except Cop Cars!).

Treasurer:



**Chuck Johnson,
WA7JOS**

I have been pleased to be the UARC treasurer for the past 7 years. It's lots of fun to spend someone else's money. The club is in good financial shape, but it could be better. Our membership numbers are dwindling. If the club is to survive, we need everyone to **r e c r u i t** **n e w** members to keep us going strong.

Microvolt Editor:



**Tom Schaefer,
NY4I**

Tom is a past-President and former Microvolt editor of UARC. He is also the trustee of the W7SP callsign. Tom has been a ham for 22 years and is well-versed in all aspects of electronic publishing. Tom is also one of the maintainers of the UARC website. Tom is

a well-schooled grammarian to ensure a well-edited Microvolt. Perhaps Tom's most relevant quality is that he is good at twisting arms to get articles out of the membership. Elect him and your arm will really hurt!

Assistant Microvolt Editor: Dale Sargent, KD7NMJ

(No bio or picture available at press time)

Program Chair:



**Linda Reeder,
N7HVF**

The reason I want to be [one of the program chair] person[s] is because I love to help out anyway that I can.

Remember it is your club so if you have any ideas or suggestions on who you would like for a guest speaker you can just give me a call any time. Home 364-7006, work 468-2750 or email N7HVF@ARRL.NET. We try to focus on all aspects of amateur radio. This is such a diverse hobby that there is something for everyone. So don't be shy to make your wants and wishes known.

Can you believe it? I have been in Amateur Radio for 17 years. I will never forget that cold snowy Saturday morning Dec 14, 1985. That was back in the days that the Tech and General theory was all in one. I couldn't believe it I only missed 2 questions out of 50. The only thing I had to do now is pass 13 words per minute and I would. That happened a few years down the road at the HandiHam camp in Minnesota. After I passed my test that cold Saturday morning Randy Finch whispered to Gordon [Smith, K7HFV] should we tell her about the [UARC membership fee of] ten dollars? I have been a member of UARC since then.

Program Chair:



**Rulon Holyoak,
AC7GR**

(No bio available at press time)

75 Years of UARC

Seventy-five years ago a group of Hams experimenting with communication over the airwaves, gathered them selves together, and started what we now call the Utah Amateur Radio Club. Late in the evening of March 24th, 1927 Paul Segal Division Manager from the ARRL and Art Johnson a local ham expressed the desire to form a club. The measure was brought to a motion by Art and was seconded by Don C Mc Rae. August Vogeler nominated Don C Mc Rae for Temporary President and Fred Neal nominated D. H. Jones for Temporary Secretary. Dick Evans also nominated Gus (no last name given) for Secretary. Voting was done by closing eyes and raising hand, vote was 6-3 for D. H. Jones.

April 29th, 1927 the first official meeting was held at Dick Evans (6AYJ *** note the call sign, we were a six area ***) home with nine members present. Elections were held for permanent officers, Don Mc Rae President, Dave Jones Vice President, and August Vogeler as Secretary.

The next two Friday evenings were spent hammering out the bylaws that were submitted to the ARRL for our application as a Club. The Utah Amateur Radio Club was a sanctioned club by the ARRL on July 26, 1927.

Most of what they gathered for was to learn and exchange new ideas on how to build projects. Cw was the mode of operation; we did not have FM, Sideband or any of the other modes that we now enjoy. People still farmed with horses in many places. Telephone went through Operators, and the thought of talking with someone across the Ocean was mysterious and exciting. (Gosh it still is!)

Radio was in its infancy; you definitely did not go down the local Ham Store to buy your equipment. Many tubes were expensive; some times you could get surplus parts for your project. Hams made their own crystals and designed their own equipment-shared ideas and experimented.

Although it went through many different forms, hams met usually each month. Most of the meetings over the years were in homes of the various hams, ending with refreshments. Many of the meetings were fieldtrip in nature, visiting radio stations or hams home stations.

1930's saw an increase in membership to 19 members. Topics included building amplifiers, grinding crystals, to super heterodyne receivers and yes the usual refreshments. Dues were \$1.00 per year. Members were assigned papers to talk on and come prepared to discuss at some future time.

1940's saw an increase in membership to 32 members. Dues were \$2.50 per year, stamps cost 1.5 cents, Code nets, Two-meter simplex, and slide shows of Rocket test shown by Professor Haycock. Many of the meetings were still held in homes and as usual refreshments were served.

1950's saw an increase in membership to 40 members. Field Day was held 1952 at Saltair. Code and Theory classes were held. Talks on mobile power supplies, on air courtesy, net operation, and Xmtr Hunts. On the air meeting of UARC Round Table started, phone 3.825 Dee Christensen and CW 3.735 John Dinkleman. Club meeting moved to larger sites, and yes refreshments.

1960's showed an increase in membership to 76 members. Club voted to hold meetings on the first Thursday of each month. Topics such as TVI, Defense preparedness tests, code and theory classes, Ham license plates, Interest in a club call W7LRA, Club repeater discussed. WIMU Hamfest up at Mack's Inn and Island park area.

In the early 60's we were introduced to the first Repeater systems, yes I said systems. Lake Mountain sported an AM Repeater and a FM Repeater and Ensign Peak had a FM Repeater. You would not think there would have been a problem with competition over a frequency but the Repeaters in those days were built upon Old taxicab radios, and crystals that were available were close in frequency, yes there was completion. Where was our frequency coordinator in those days?

If you were alive in the 60's you may remember Manwill Supply for your radio needs. Collins and Drake equipment would cost as much as some autos in those days. After Manwill brothers retired Dee Justesen ran a store in Salt Lake; Jim Platt WA6GMB operated one from Riverton.

Hams had many choices of kits to choose from including Globe, Knight, Viking, Heath, many of which still warm a place in many shacks around Utah. From scratch homebrew could be found in the form of liner amplifiers, power supplies

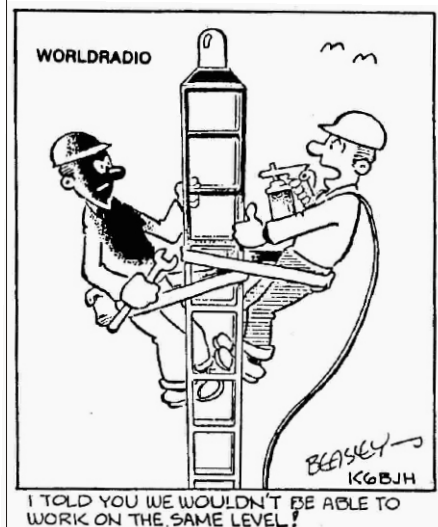
for surplus gear, electronic keyer, two-meter converters, and electronic T/R Switches.

1970's showed an increase in membership to around 120 +. Club dues were \$5.00, introduction of the Women's Auxiliary, Utah Amateur Radio Call book, formation of TVI Committee, Raffle ticket at meetings, Club Decals designed by Don Green .50 cents, Suggested programs for club night, DX talk, Telephone Company Program, FAA Trip, Litton Industries trip.

The 1980's - 1990's many of us remember. Many changes including privileges, modes, technology, equipment and yes membership. Membership increased during these years. Change in license requirements infused a jump in membership. Some things may include first Club station at the Red Cross Building that was used for emergency communications after the Salt Lake City Tornado. Mobile radios almost common place, merging of radio to computers, Amateur Television repeater, State wide linking of repeaters. Move away from tube equipment to solid state equipment, TNC's, Packet, Computer Chips, and Programs to run communications modes via sound cards. I am sure there was much more, what a great time to be in the hobby and enjoy what we have. And most important the meeting after the meeting, hams do love food!

Meeting sites over the years have been held at Utah Power and Light, Murray High, Harmony Park, The Armory, County Fairgrounds, Doxey Hatch, and now University of Utah.

Field Day sites many may remember are, the old Saltair grounds, Wolf Creek Pass Summit, Cardiff Fork in Big Cottonwood



canyon, East Canyon, Cascade Springs, Daniels Canyon, Monti Cristo, and Pason Lakes.

If you ever wondered where our tradition of Steak Fry came from, you should thank Mac Petersen W7WKF whom when presented with excess funds in the Club decided that the members should get some back. He mentioned that he was meeting up Millcreek canyon for steak fry and the rest was history.

The Microvolt? Well the Microvolt has taken many forms and it has not always been called the Microvolt, if you can believe it once was called the Utah ham Bug. (Quick Henry get the Flit) The Utah Ham Bug ran as the news letter starting approximately in the 1940's The First Microvolt and the Incorporation of the Club happened in about the same year, 1957.

The first official Club Call was W7LRA and later changed to W7SP after Zim's old call. Zim was a fine Gentleman who was an avid builder of his own equipment even down to the crystals, which he cut him self and fashioned into his projects. Zim Zimmerman for whom we use the call, would be proud of what the Club has become. I feel Zim exemplified the spirit of Hamradio. Zim build his own equipment, experimented, mentored and enjoyed this hobby, oh and he also had a GREAT contest call sign!

Thanks to Gordon and others who helped me with the history in places that I was not sure. I have not tried to cover it all but just give you a taste of the history. Much of this came from notes that thoughtful people kept over the years at meetings.

Although many things have changed, much has not. The magic is still there when you put your hands on that key and send out your first CQ waiting for someone to return or pick up the mic and chat with your friends. Hams still are pioneers and give service in many ways. What will be the next 75 years? What will be our contribution to this Hobby? Will it be one of service, development, and traditions?

The future will be fun, and ours is to excite a new generation to the mystery of

communication, fellowship and tradition.

73 Alan Seyboldt N7OI

Jerry Bennion's General Upgrade Class



Jerry Bennion's General Upgrade Class

Photo: Ron Speirs, K7RLS

Here are some pictures from the recent General License Upgrade class, hosted by Jerry and Verna Bennion. Others assisting in the instruction include Garth and Diane Wiscombe, along with Chuck Johnson.

Ted, KC7PM

December Meeting: VHF/UHF and Elections

In addition to the 2003 UARC Board Member elections, there will be two speakers in December. Dave Felgar, NJ7A and Charles Clark, N7MLD will discuss various aspects of VHF and UHF operation. Dave is a longtime club member and very active on the "high bands." Field Day attendees will remember his VHF station. He said that band conditions were "less than ideal" but he did manage to make about 30 QSOs.

Charles is a new UARC member from Davis County. He joined the spirit of Home Brew Night: he brought the lawn chair 6-meter loop and several other antennas.

Charles kindly provided copies of articles for the various antenna projects that he displayed. He joined UARC primarily because there is a very active contingent of VHF and UHF hams. He has already spent many "a happy hour" in the basement of Ron Jones, K7RJ. Charles' current interest is microwave.

Laurie "Mac" McCreary, K7LMM

73 For Now

I have thoroughly enjoyed serving on the Microvolt Committee in 2002. I felt I made a difference, and that is what matters most to me. The newsletter has been a labor of love (however, my other labor of love tells me she'll kill me if I do it again).

I invite those of you who might be concerned that they don't have the skills nor the experience to serve either on the Board or on a committee. I've never edited a newsletter before, and UARC hasn't been sued for libel even once. As many of you might have noticed, I prefer pictures and especially pictures of all of you doing that thing we call ham radio.

I would like to thank several people for making my Microvolt experience a positive one:

Ron Speirs, K7RLS, for the hundreds of photos he took and developed; a priceless contribution to UARC.

Gordon Smith, K7HFV, who's website material on exam schedules, bylaws, and current events made finding Microvolt content so much easier.

John Hanson, KI7AR, who's outstanding two-part article on tower construction was reprinted untouched. I apologize for repeatedly misspelling your name.

Mark Richardson, W7HPW, who submitted his QST From The Prez each and every month.

And finally, all of you, who hopefully got something out of this years Microvolt without once reminding me that I had no previous experience.

Ted, KC7PM



Jerry Bennion's General Upgrade Class

Photo: Ron Speirs, K7RLS



Jerry Bennion's General Upgrade Class

Photo: Ron Speirs, K7RLS

Utah Amateur Radio Licensee Honor Roll

UARC congratulates the following Utah amateurs for earning their new or upgraded licenses. This information was extracted from the FCC database and represents upgrades and new licences issued in October, 2002.

AC7WE Terry L Jones Salt Lake City Upg. General to Extra
 KD7SUR Alexander S Peterson Roosevelt New Technician
 KD7SUS R Cody Fisher Roosevelt New Technician
 KD7SWF Randy Freeman Salt Lake City New Technician
 KD7SWL James S Clarke Iv Ogden New Technician
 KD7SXL Todd C Liston Pleasant View New Technician
 KD7SXM James H Child Pleasant View New Technician
 KD7SXN Carey S Stricker Ogden New Technician
 KD7TAG Scott E Alexander Saint George New Technician
 KD7TBA Mark D Wecker Ogden New Technician
 KD7TBR Christopher J Clark Provo New Technician
 KD7TBS Keith E Jackson Mapleton New Technician
 KD7TBT Wendy M Jackson Provo New Technician
 KD7TBU Michael T Johnson Mapleton New Technician
 KD7TBV Shaunna Mc Ghie Orem New Technician
 KD7TBW James K Mealey Pleasant Grove New Technician
 KD7TBX Gerald D Watt Provo New Technician
 KD7TBY John K Witte Orem New Technician
 KD7TDN John Warburton Salt Lake City New General
 KD7TDO Paul Zasadzinski Salt Lake City New General
 KD7TDR Charles A Bird Taylorsville New Technician
 KD7TDT Jeff C Cook Salt Lake City New Technician
 KD7TDU Mary L Flood Bountiful New Technician

KD7TDV Paul A House Salt Lake City New Technician
 KD7TDW Leslie J House Salt Lake City New Technician
 KD7TDX Serenity Hunt North Salt Lake New Technician
 KD7TDY Nancy Hunt North Salt Lake New Technician
 KD7TDZ Richard K Keddington Salt Lake City New Tech
 KD7TEA William W Liddle Salt Lake City New Technician
 KD7TEB Jans M Lund Holladay New Technician
 KD7TEC Steven D Whittaker Salt Lake City New Tech
 KD7TED Alvin A Merrill West Jordan New Technician
 KD7TEE Dave R Perks Salt Lake City New Technician
 KD7TEF Sharon L Prescott Riverton New Technician
 KD7TEG Davd C Richards Salt Lake City New Technician
 KD7TEH Andrea M Short West Jordan New Technician
 KD7TEI Jose Solano Provo New Technician
 KD7TEJ Thayne M Peterson Alpine New Technician
 KD7TEK Pethai C Walker Salt Lake City New Technician
 KD7TEL Ronald C Walker Salt Lake City New Technician
 KD7TEM Sherry A Walker Kaysville New Technician
 KD7TEN Dawn K Merrill Murray New Technician
 KD7TEP Kirk R Kimball South Jordan New Technician
 KD7TEQ Mat R Perkins West Jordan New Technician
 W5CEU Terry L Goodwin Payson New Technician
 W7NHY Kimball S Sant North Salt Lake Tech to General

FOR SALE

I have the below listed equipment that belonged to my father, KA0MXP. He passed away some time ago in Rapid City SD and I am now liquidating his equipment. In addition, I am also selling my own equipment.

Rick Hanzlik, N7NGK

(801) 631-4518

(801) 943-8750

rickh@specialty-art.com

rjh@spdesign.com

Kenwood TS450AT B HF transceiver

Kenwood PS53 -- Power supply

Kenwood TM241 B 2 Meter

Radio Shack HTX-202 2 Meter FM transceiver HT

Hustler 4-BTV Trap vertical

MFJ 422 Keyer

Kenwood TS440AT

Astron RS20A Power supply

Icom 2400A dual Band Mobile

Kenwood TH79A Dual Band HandiTalky

PK232 MBX Packet Modem

MFJ 422 Keyer

50 Wilson tubular tower with rotator base

3 element cushcraft beam with 30/40M add-on

Communication Products Amateur Radio Sales

7946 S. State St., Midvale, UT
801-567-9944

Open Weekdays 10-6
 Wednesdays 10-7
 Saturday 9-5

**Come See the New ICOMS
 Featuring Their
 Amateur/Receiver
 Lines Now on Display**

<http://www.commproducts.net>
 Bob Wood, W7OAD,
 UARC Member