

The MICROVOLT

Volume XLVI Issue 9, October 2002

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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.

NEW MEETING PLACE



UARC has a new meeting place! We are now meeting at the Engineering and Mines Classroom Building (EMCB), Room 101, on the campus of the University of Utah, in Salt Lake City. EMCB is in the center of the map, south of the Merrill Engineering Building (MEB).

Our meeting day and time is unchanged: Thursday, October 3, at 7:30pm.

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, 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

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Book "Lady": Fred DeSmet, K17KM	485-9245
Historian: Ron Speirs, K7RLS	968-4614
Field Day Chair: Brett Sutherland, N7KG	298-5399

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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

10/05/02 (Sat) Salt Lake City
Contact: Gordon Smith, K7HFV
Phone: (801) 582-2438

10/09/02 (Wed) Mantua
Contact: Jim Jones, KJ7VO
Phone: (435) 723-1947

10/16/02 (Wed) Provo
Contact: Steve Whitehead, NV7V
Phone: (801) 465-3983

10/19/02 (Sat) St. George
Contact: Ronald C. Sappington, W17Z
Phone: (435) 673-4552

10/29/02* (Tues) Salt Lake City
Contact: Eugene McWherter, N7OVT
Phone: (801) 484-6355

11/06/02 (Wed) Farmington
Contact: Fred Villanueva, N7FV
Phone: (801) 295-6560

*Only Technician elements (1 and 2) given at this session.

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

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 Sep 5	Tue Aug 13
Thu Oct 3	Wed Sep 11
Thu Nov 7	Wed Oct 16
Thu Dec 5	Tue Nov 12

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)

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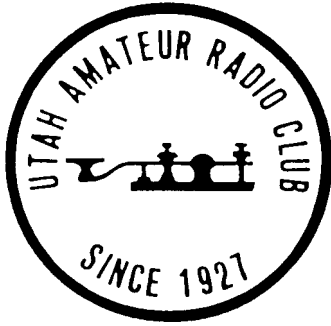
For net times and frequencies, testing details and late breaking news listen to the UARC Information Net Sundays at 21:00 on 146.62 or set your browser to: www.xmission.com/~uarc/announce.html □

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The Microvolt

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Photo: Ron Speirs, K7RLS

Safety in the Shack

In 1982, the IEEE developed the C95.1-1982 Standard that described appropriate limits for human exposure to RF energy. Medical researchers, engineers and industry developed this Standard. Shortly, the FCC wrote a set of regulations that required radio services to comply with the limits set in the Standard.

While the FCC was developing those early regulations, the ARRL requested that the Amateur Radio Service be categorically exempt from any specific requirements under the regulations. We urged the FCC to rely upon the demonstrated technical competence of amateur operators and self-education as sufficient tools to ensure continued Amateur Radio safety. The FCC agreed, and we were categorically exempt from any specific requirement to perform a station evaluation under the old RF-exposure regulations.

In 1991, IEEE published a new Standard, C.95.1-1991. This Standard decreased the maximum recommended RF exposures and extended the frequency range covered by the original Standard. This set the

stage for the rule changes that currently affect Amateur Radio.

On April 8, 1993, the FCC released a Notice of Proposed Rulemaking (ET Docket 93-62), announcing that it intended to develop a new set of regulations for all services, based on the C95.1-1991 Standard. ARRL filed comments asking that the Amateur Radio Service exemption continue, relying on the continued technical expertise and education of amateurs. The Amateur Radio Health Group filed comments requesting that Amateur Radio be included in the new regulations, citing some instances where amateur installations could exceed the exposure levels in the Standard and noting that not all hams have read the educational material available on the topic. The FCC took no further action until the US Congress added a mandate to the Telecommunications Act of 1996 for FCC to complete its work on revisions to the RF-exposure regulations.

The regulations have specific MPE requirements for radiated electric fields, magnetic fields and power density. MPEs are derived from the Specific Absorption Rate (SAR) at which tissue absorbs RF energy, usually expressed in watts per kilogram (W/kg). The FCC MPEs are not based strictly on IEEE C95.1, but rather on a hybrid between that Standard and one developed by the National Council on Radiation Protection and Measurements (NCRP), a body commissioned to develop recommendations for federal agencies.

From a safe SAR, the Standards and regulations set MPEs that vary with frequency. The most stringent requirements are from 30 to 300 MHz because various human-body resonances fall in that frequency range.

MPEs assume continuous-duty and

operation. The regulations, however, allow us to average the total power over 6 minutes for controlled environments and 30 minutes for uncontrolled environments. This average considers both the duty factor of the operating mode and the actual on and off times over the worst-case averaging period.

The regulations define two primary RF-exposure environments: "controlled/occupational" and "uncontrolled/general public." In a "controlled" RF environment people know that RF is present and can take steps to control their exposure. These are primarily occupational environments, but the FCC includes amateurs and their immediate households (families). This applies to areas where you control access. The limits for controlled environments are evaluated differently (less stringent) than those for uncontrolled environments.

"Uncontrolled" RF environments are those open to the general-public, where persons would normally be unaware of exposure to RF energy. This applies to all property near your station where you don't control public access: sidewalks, roads, neighboring homes and properties that might have some degree of public access.

The regulations require amateurs to evaluate their stations for both controlled and uncontrolled exposure areas. The regulations also require amateur operators, whose stations are not categorically excluded, to perform a routine analysis of compliance with the MPE limits. The FCC is relying on the demonstrated technical skill of Amateur Radio operators to evaluate their own stations.

So how do you go about it?

Continued on Page 4.

Continued from Page 3.

To help hams perform the routine evaluation, the FCC compiled the following document: *Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radio Frequency Radiation* also known as "OET Bulletin 65."

Take the time to make an evaluation of you stations, the easy way is to use one of the internet calculators.

73, Mark, W7HPW



Photo: Ron Speirs, K7RLS

Featured Member: Alvino Rey, W6UK

This month we are featuring Alvino Rey, W6UK. Alvino has been in Amateur Radio since its infancy. He received his first license when he was 10 years old. That was back in the days when morse code was the only mode of communications in Amateur Radio. That was also back in the days when CW was sent by the spark method. Alvino has been in the hobby for 81 years.

Alvino now has his Extra Class license. He became interested in the hobby when a radio operator in the Navy came to visit their home in Piedmont, California. Alvino was so fascinated with radio that he wanted to be a radio operator on ships at sea when he grew up. As time went on he obtained his commercial radio license so he could be a radio operator at sea. But it never happened because being a musician took over.

Alvino said he has been a musician all of his life. He was a leader of a big band called Alvino Rey. They made lots of records. Alvino was a back up player in several movies. He was married to one of



Photo: Ron Speirs, K7RLS

the King sisters; her name was Luise. They had three children two boys and one girl. They had a television show for 10 years called The King Family. They have lived in New York, Chicago, Northern and Southern California. They moved to Utah 20 years ago when their children were attending BYU.

Alvino has been a member of UARC for many years. He gets on the low bands every day and communicates with friends from all over world. CW is his favorite mode of communicating in amateur radio. Alvino has watched amateur radio grow from its beginnings. He still loves morse code the best and enjoys working with it everyday. He has operated many different radios through out his amateur radio career. He now has an Icom 756, (a low band rig) and a Yaesu 746 for 2 meters. Alvino thanks so much for letting me interview you. You have accomplished so much.

73, N7HVF, Linda Reeder

October Meeting is HOMEBREW NIGHT!

Thursday, October 3, will be the annual homebrew night. Be sure to bring your recent home-constructed radio equipment to show off. Our master of ceremonies will be none other than our fearless leader and club president, Mark Richardson, W7HPW.

But before getting too carried away with the "what," perhaps we should talk a bit about the "where." Due to the change of tenants in our old meeting space, we have been unable to work out any guarantee that we will be able to get into the room we have been using, even though it seems to be unused at the moment.

Therefore, we have obtained meeting space on the campus of the University of Utah, in the Engineering Mines Classroom Building (EMCB), Room 101.

Homebrew night is a great time to show off equipment you have built and to see what others in the area have done. The only requirements are that your project be usable in some area of amateur radio and that it not have been entered in a previous UARC Homebrew Night.

If you have something that is impractical to bring in, say your full-size 160-meter beer can beam, bring photos, slides, diagrams, etc. to show the group what it looks like and how it works.

Everyone will get a few minutes to explain his project and show off its features. The exact amount of time will be determined by the number of entries.

Of course, even in the new location, we expect to have all the "standard" features of UARC meetings including a chance to check out the latest ARRL books from Fred the book lady, eyeball QSOs, and the "meetings after the meeting" which provide a chance to continue the eyeball QSOs over pizza or other gastronomic delights.

That's Thursday evening, October 3, 7:30 PM, at EMCB Room 101, University of Utah campus, Salt Lake City.

Gordon, K7HFV

Nominating Committee Seeks Volunteers

Maurine Strektenfinger, K7HOZ, leads this year's UARC Nominating Committee. We need you! If you would like to volunteer to serve in any capacity (on the board, on a committee, or just lend a hand at Field Day 2003), contact Maurine at (801) 254-1536.



Photos: Ron Speirs, K7RLS

September meeting: Ron Jones, K7RJ, Dale Jarvis, WB7FID, and Clint Turner, KA7OEI talk microwaves.



Photos: Ron Speirs, K7RLS

Repeaters: Use Them or Lose Them!!!!!!

Now that I have your attention; no, we are not in danger of losing any of the amateur radio frequencies for our beloved repeaters. I have spent time monitoring a few repeaters throughout our state during the past few months and have made some very interesting observations. In almost all case our amateur radio operators are friendly, considerate and do their very best to comply with all the FCC rules.

I think one of the best used repeaters along the Wasatch front is the UARC 146.62 repeater, during the most commonly used hours there is usually some one having a friendly QSO or some one monitoring in the event some one requests help or information and neatest of all, I got in some code practice one night while I was driving home from work!

The area of concern I have noticed is that we tend to gravitate to where the action is, many repeaters out there are very lonely! Some go for a day or more with out a single use, this is where I think it's a shame that we don't have more folks using the other repeaters. What is the reason more people don't get on and use our repeaters? The answer I continue to get is, "oh it's them Cell Phones." Are our repeaters eventually going to go a way because it becomes to costly to operate a repeater that is very little used or not used at all? It does cost some one money to keep that repeater on the air even if it is never used.

I am also aware of many groups and

organizations that are desperately waiting for a 2 meter repeater pair to become available because all repeater frequency pairs are committed to existing repeaters. Some have even suggested to me and others that we take some of the packet radio frequencies that are not being used now an use them as repeater pairs. Where did packet Mail go? I guess due to the Internet our packet mail has ended up there. Isn't it neat that things we played around with as hams 10-15 years ago are now what every one is doing, it just has different names! I wonder if the day will come where everyone has a 75 foot tower in their back yard!

I guess the point I'm trying to make here as I ramble on, is that if you are aware of a repeater that is under utilized, consider QSYing to that repeater and give it a bit of a work out, I'm certain the control operator or trustee will welcome some use for all the effort that has gone into their pet project. Of course if you do move to a repeater that seems to be unused please be considerate of the organization or group to which the repeater may be dedicated.

I hope we all do everything we can to take advantage of all the opportunities to enjoy the resources that are available to us as amateur radio operators. If any of you have any comments or suggestions about this article or any other questions about amateur radio please feel free to contact me at ac7cp@arrl.org

... de AC7CP
Mel Parkes
ARRL Section Manager.

The Gift of Amateur Radio

(Originally written just after the Dayton Hamfest in April, 2001)

Dayton (2001) was glorious. Hams were packed in like sardines in the main arena. The flea market was drenched by torrential rain on Friday. You would think that HT's and speaker mikes were issued at the door. The bargains were unbelievable. Five convention halls were filled with everything imaginable for amateur radio. I found QRP rigs to amplifiers to computers and everything in between. Did I mention that the bargains were unbelievable?

But what impressed me most about the Dayton Hamvention was what I learned from the speakers. Gordon West talked

about how best to go mobile (who dresses that guy?). ARRL's Jim Haynie shared his experiences about forming ham radio clubs in middle schools. However, I was unprepared for the impact of the message I received from Enforcement Bureau Special Counsel W. Riley Hollingsworth.

Hollingsworth's message was plain and simple. Amateur radio is a gift, and we are stewards of that gift. We must stop bickering amongst ourselves and support our one major voice of representation (the ARRL). Otherwise, our billion dollars of bandwidth will become the property of Sprint, MCI, and AT&T. That's right, the value of the amateur radio bandwidth is estimated at a billion dollars. And we are being watched. Learning what we knew all along, the press now tunes into amateur radio. Imagine a recording of a typical 2 meter QSO being played before a Senate subcommittee as proof that amateur radio operators are wasting precious bandwidth while airlines are facing radio gridlock. Hollingsworth feels we don't need an audio version of Jerry Springer on the amateur bands.

Hollingsworth calls on us to rejuvenate our hobby, not destroy it from the inside by arguing about morse code, round table procedure, and closed repeaters. I once checked into the UARC Information Net and proudly proclaimed that on the air, free speech is a right, as long as we don't violate Part 97. How much more wrong could I be? We will lose our hobby to commercial interests if we don't conduct ourselves as professional amateurs at all times, even on simplex. Remember, the world is listening. When amateurs take their equipment into schools to socialize amateur radio, what do we want those young people to hear?

I left Dayton with the thought that the use of our billion dollars of bandwidth as a hobby alone can no longer justify the existence of the Amateur Radio Service. I should support the ARRL, and when they stray, I should write them and tell them what I think. I should get more involved in the local clubs in the area. All of us should socialize amateur radio and teach new hams everything we know. Hollingsworth reminded us that we don't have (former Compliance and Information Bureau Chief Richard) Lee and (former Senator Barry) Goldwater to protect amateur radio for us any more. It is now up to us as stewards of the gift of amateur radio.

73, KC7PM

UARC 75th Anniversary Special Event Station

Did you know that this is UARC's 75th year of existence? The Utah Amateur Radio Club was formed in 1927 and we still have the minutes from the very first meeting.

What better way to celebrate than a special-event station, especially after the success of our winter olympic station earlier this year?

Current plans call for a station to operate under the club's W7SP call from President Mark Richardson's QTH, which was also the home of the Olympic Special Event station.

Date for the event is Saturday, November 9 (provided we don't find a conflict with a major contest or other operating event). It will run from 1500Z on the 9th (that's 8 A.M. MST) through 1500Z on the 10th.

Operators will be needed, so mark the date on your calendar. It's a lot of fun to be on the receiving end of a pileup and Mark's station is the kind that can generate a lot of pileups. Watch for more information

From the UARC website at <http://www.xmission.com/~uarc/announcement.html>.

Scott's Hill APRS Digipeater Back On The Air

On Saturday September 21, Gordon K7HFV, Gary KK7DV, and Tom NY4I made a trip up to the Scott's Hill location at the top of Big Cottonwood Canyon. The purpose of this trip was to put the APRS digipeater back up on the air. It seems last winter the antenna that was there was taken from a three section CoLinear to a single section "linear" antenna. The antenna still works, but not very well. In addition, there was an interference problem with another amateur repeater on the site. The choice was made to place a beam on the antenna site with its "null" towards the existing 145.27 repeater. After extensive on-air tests, it seems we have gotten rid of the interference. Previously when a weak signal was on the 145.27 system and the packet system was keyed, one could hear packets on the 145.27 output. We hope this has taken care of the problem.

For those that may not know, APRS is the

Amateur Position Reporting System. APRS allows hams with a radio and GPS



receiver to send their current position over 144.39 using 1200 baud packet radio. packets are relayed around the western US via a network of Digital repeaters (or digipeaters) using common names. The Scott's hill site provides a critical link in providing coverage for I-80 between Park City and Evanston as well as the Unitas. This system with its 10000 foot altitude provides good coverage as verified by a test drive by to Evanston by Tom (and family) on Sunday ("No really, let's just take a nice Sunday drive - no reason"). Using this system, a ham in Park city with a handheld can send messages including emails to other people in the world over the APRS network. More information on APRS can be found on www.qsl.net/utahaprs. If you would like to see APRS in Utah, just point your

browser to <http://www.xmission.com/~toms/aprs.html>.

Many thanks to Gordon and Gary for their valuable assistance with this site visit.

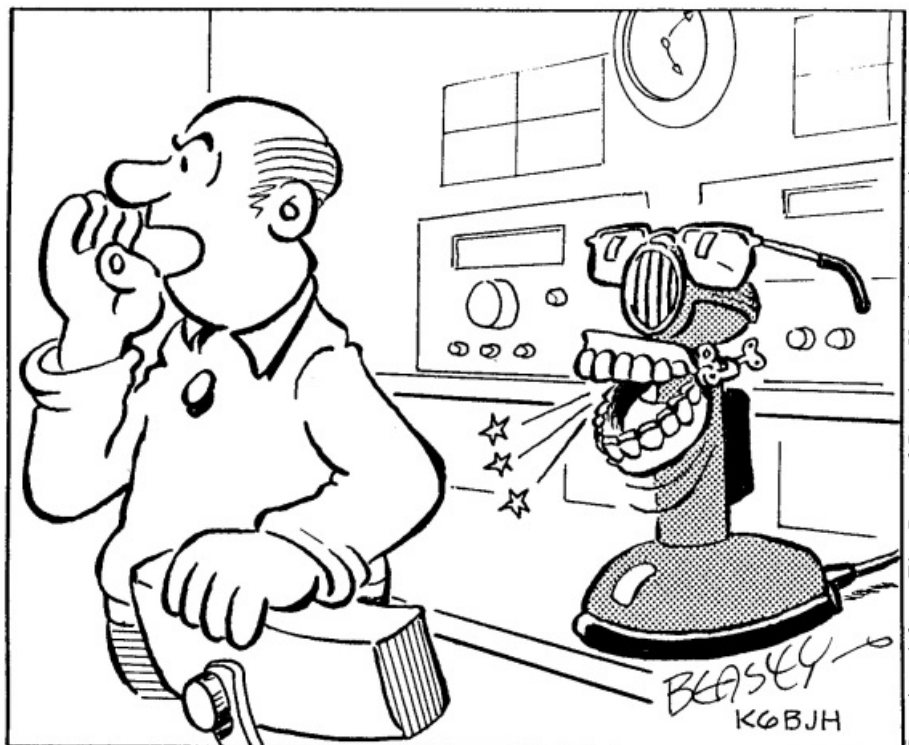
73, Tom NY4I

Bylaw Changes Proposed

Perhaps you remember back in an earlier part of the year when the UARC officers were seeking participants in a bylaws revision committee. Well, the committee has completed its work and proposed a set of revisions. There is nothing too radical in the revisions, and the changes, if approved by the membership, won't have a great impact on the way the club runs. In fact, most of them are aimed at making sure what we are already doing is acceptable.

You can read the changes and the reasoning behind them here on UARC's web site. They are also published in the August issue of The Microvolt. UARC members will have a chance to discuss and vote on the changes at the October 3 meeting.

Gordon, K7HFV



VERY FUNNY !

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The UTAH AMATEUR RADIO CLUB meets on the first Thursday of every month (except July and August) at the Utah Power and Light Service Department Auditorium, 635 East Sixth South, Salt Lake City, at 8:00 PM

Visitors are welcome and membership is open to anyone interested in Amateur Radio. Dues include all activities: a subscription to the monthly "Microvolt", a free ticket to the annual steak fry, and participation in the door prize drawing at meetings.

The Ladies Auxiliary is available for your XYLS--they don't even have to be interested in amateur radio--hi!!

The Club's Officers for 1966 are:

President	Dick Carman W7APY
Exec. V. Pres	Parley James W7BAJ
Vice Pres.	Carroll Soper K7SOT
Sec. & Treas.	Ted Lenzen WA7EII
Microvolt Ed.	Phil Bullock W7VEO
Program Chair	Max Burggraaf WA7AIA
" "	Craig Jensen K7AWY

President, Ladies Auxiliary, Inez Bullock K7SVN

A Blast From the Past

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 August, 2002.

Roald E Peterson West Point Upgraded Technician to Extra
 William R Brimhall Payson New Technician
 Kent J Steed New Technician
 Spencer R Watson New Technician
 David Green Grantsville New Technician
 Steven M Mcnew Riverton New General
 Carl R Gierisch Orem New Technician
 Edwin R Christensen Murray New Technician
 Gabriel L Carmona Layton New Technician
 Kaye Brown Sandy New Technician
 Lynn S Anderson Brigham City New Technician
 Jeff Dickson West Jordan New Technician
 Alice L Fivas Tooele New Technician
 Telisha M Fivas Tooele New Technician

Amanda Hoggard Salt Lake City New Technician
 James Mcallister Salt Lake City New Technician
 Kenneyn L Moore Salt Lake City New Technician
 Kimball S Sant North Salt Lake Upgraded Technician to General
 Bruce B Winters Salt Lake City New Technician
 Scott L Chandler Springville New Technician
 Benjamin R Johnson Morgan New Technician
 Jacob R Major American Fork New Technician
 Jennifer A Olsen Payson New Technician
 Cameron J Packer Lindon New Technician
 Crysta M Powell Mapleton New Technician
 Benjamin R Roper Orem New Technician
 Jonathan L Wager Sandy New Technician
 Olivia D Brimhall Payson New Technician



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STOLEN

\$100 REWARD for the location of my stolen ROHN HBX 48 self supporting tower. When it left my yard in Salt Lake County, it was painted white and in three sections. Each section is about 16 feet long. Please contact w7mr@arrl.net.

Thank you and 73
 Marv W7MR

Communication Products Amateur Radio Sales

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