

ARRL
CLUB
#1602

4TH OF JULY

ISSUE

Published by the
Utah Amateur Radio
Club HAM
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The MICROVOLT
632 University Street,
Salt Lake City, Ut.
84102

Volume XLII Issue 7 July, 1997

the MICROVOLT

Periodicals

PLEASE SEND DUES TO:
U.A.R.C.
c/o GARY OPENSHAW
861 ROOSEVELT AVE.
S.L.C. UT 84105

SEND TO:

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Microvolt Midnight Copy-Editors and Coordinators of Mischief- Lon Stuart's Trolls

The Utah Amateur Radio Club was organized under it's 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. 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 Exhibition hall located on the Salt Lake County Fairgrounds just south of Murray City Park. Club membership is open to anyone interested in amateur radio; a current license is not required. Dues are \$13 per year, including a MICROVOLT subscription. Those living at the same address as a member who has paid \$13 may obtain a membership without a Microvolt subscription for \$9. ARRL membership renewals should specify ARRL Club #1602. UARC maintains the following repeaters: 146.62 (minus) and 449.10. 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 minus offset) has Autopatch facilities on both the Orem exchange (covering Santequin to Lehi) and the Salt Lake City exchange (covering Draper to Layton). The 449.10 repeater has autopatch facilities 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 and maintaining a club membership. THE MICROVOLT: The Microvolt is the official publication of the club. Deadline for submissions to the Microvolt is the 10th of each month prior to publication, except Aug. All submissions are welcome but what is printed and editing are the responsibility of the UARC board. Reprints are allowed with proper credits to the MICROVOLT, UARC, and authors.



THE DESERT EDITION OF

THE MICROVOLT

Publication of the Utah Amateur Radio Club

VOLUME XLI ISSUE 7 JULY, 1997

Feature Of The Month

LEADING THE PACK

This month we are featuring Gordon Smith K7HFV, Vice President of UARC. Gordon has been in amateur Radio since 1959. He was 15 years old when he received his General license. He never did get this Novice license. Dee Christensen W7YPC, (his Elmer) talked him out of it. Dee told Gordon that he knew the material good enough to just go for the General so he did. He now has his extra class license.

Gordon built one of the first AM repeaters. He helped build the first 146.94 FM repeater and had it in place in 1968. He also helped build the 146.76 repeater, also known as the Lake Mountain repeater, and the 146.62 repeater. He started the Friendship Cruise down the Green River and up the Colorado. In 1962 Gordon built the an Oscar-1 satellite receiver that could detect the space craft and the space craft temperature by the CW signals. Also, in 1962 Gordon graduated from East High School.

Gordon is an active musician, he plays the organ for the TABER Lutheran Church and is a clarinet player. He also enjoys hiking and is an authority on Utah trails and back trails.

For twenty years Gordon was the Editor of the Microvolt. He put it together and printed it in the basement of his home.

Gordon is a great Elmer, he has helped over three-hundred individuals get into the hobby. He is a VE and has administered the test sessions for many years. He is in charge of the test session at the Blue Cross Blue Shield Building. It takes a lot of work to run these test sessions, filling out the 610 forms properly and getting everything turned in to the FCC. Gordon also reads the ARRL Bulletins on the UARC Information Net.

He studied electrical engineering at the University of Utah, he has been an engineer for radio stations. He now works for Bonneville Information Marketing as a computer analyst.

Gordon, you have contributed so much to amateur radio, you are greatly appreciated.

-73s N7HFV

The Address For The Microvolt Editor IS:

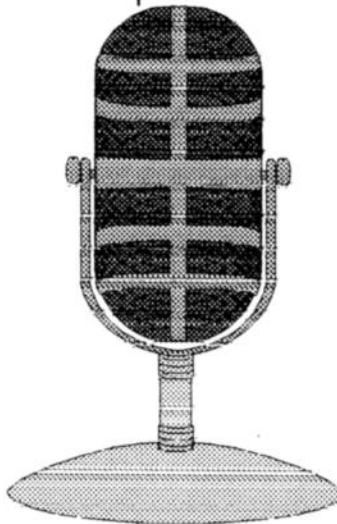
Cokie Eddy

117 East B/C 11th Avenue,

Dugway, UT 84022

New Phone 522-4474 (Ditto Exchange)

Or 1-801-831-4474 (Long distance)



UTAH AMATEUR RADIO EXAMINATION SCHEDULE

Date	Location	Contact Person
Home Ph.	Bus. Ph.	
-----	-----	-----
-----	-----	-----
EXAMINATION PROGRAMS BY CITY		
-----	-----	-----
-----	-----	-----
-----	-----	-----

City: Brigham City Contact Person: Terry Wyatt

VEC: ARRL Phone: 458-2216

Location: Box elder High School Computer Lab

Schedule:

Thursday April 24 7:00 PM

Thursday June 12 7:00 PM

City: Farmington Contact Person: Brent Thomas, AC7H

VEC: ARRL 637 East 2150 South

Bountiful, Utah 84010

Home Ph: 298-3322 Bus. Ph: 538-3700

Location: Davis'County Jail Complex,

800 West State St.,

Farmington

Service entrance

Schedule: First Wednesday of Jan., Mar., July, and Sept., 7 p.m.

City: Logan

VEC: ARRL

Contact Person: Paul Hansen, WO7N

1676 East 1600 North

Logan, Utah 84321

Bus. Ph: 752-6425

Schedule: Second Saturday of April and October, 9:00 a.m.

City: Ogden
AB7GM

VEC: ARRL

Contact Person: Matthew George,

473 Hiland Road
Ogden, UT 84404
Phone: 393-9159

Recorded exam information: 627-6064

Location: Weber State College, Science and Technology
Building, Rm 228

Schedule: First Saturday of May and November, 8:00 a.m.

City: Provo
Whitehead

VEC: W5YI

Contact Persons: Steve and Linda

497 South 700 East
Payson, Utah 84651

Home Ph: 465-3983 Bus. Ph: 225-5200

Location: Provo Campus of Utah Valley State College

Schedule: Third Wednesday evening of each month

Notes: Do not confuse this location with the larger Orem
campus.

City: Salt Lake City
K7HFV

VEC: ARRL

Contact Person: Gordon Smith,

632 University Street
Salt Lake City, Utah 84102

Home Ph: 582-2438 Bus. Ph: 532-3400 Ext.

8116

Location: Blue Cross/Blue Shield Cafeteria

2455 East Parley's Way, main (west) building,

West door Schedule: First Saturday of Feb.,

APR, June, Aug. and Dec.

20 w.p.m.: 8:00 a.m.

13 w.p.m.: 8:30 a.m. 5 w.p.m.: 9:15 a.m.

No code test needed: Any time
between

8 and 10 a.m.

Notes: Preregistration is required.

The owners of the building require that
the door be kept locked. Those who preregister will receive the
code required to get in. Preregistration also speeds the session
and gets licenses on the way faster after the session. It takes
only a few minutes by phone or on the air. Gordon usually
monitors 146.62.

City: Salt Lake City Contact Person: Eugene (N7OVT) or
Carol McWherter, (KC7LLW)

VEC: W5YI

536 E. Leland Avenue
Salt Lake City, Utah 84115

Home Ph: 484-6355

Location: LDS Church 2700 S. 300 East. South Salt Lake

THE MICROVOLT

Pre-registration preferred. Please leave message if not at home.

Schedule: Last Tuesday of each month, 7 p.m.

Notes: This session is intended primarily for those seeking
Novice,

Technician, or Technician-plus licenses. Only elements 1A, 2
and 3A will be administered. Pre-registration is required.

THINGS TO BRING TO TEST SESSION

1. Two forms of ID (If licensed, your original and one form of ID)
2. \$6.05 - Cash or Check.
3. A copy of your licensee, and or copies of your pending 610 form or
certificate of credit along with the original.
4. You may bring a filled out 610 form or a form will be available at the
test session.
5. Pencils or pens.
6. You may bring a calculator but you must show that it is not pre-
programmed.

You may use a typewriter or lap top computer only if you make
arrangements in advance.

WEB- INFO

UARC WEB PAGE ADDRESS!

<http://www.xmission.com/~uarc>

MY NEW E-MAIL ADDRESS COKIE@CYBERNECT.COM
OUR ARRL SECTION MANAGER JIMKATPA@AOL.COM
ARRL HOME PAGE [HTTP://WWW.ARL.ORG](http://WWW.ARL.ORG)
CALL SIGN LOOKUP
[HTTP://WWW.UARL.EDU/DOC/HAMULR/CALLSIGN.HTML](http://WWW.UARL.EDU/DOC/HAMULR/CALLSIGN.HTML)
CANADIAN BACON (HAMS) [HTTP://WWW.RAC.CA](http://WWW.RAC.CA)
DX INFO
[HTTP://WWW.CLINETIFI/~JUKKA/WEBCLUSTER.HTML](http://WWW.CLINETIFI/~JUKKA/WEBCLUSTER.HTML)
ELECTRONIC SWAPMEET
[HTTP://WWW.WESTES.COM/ADS/ADS.HTML](http://WWW.WESTES.COM/ADS/ADS.HTML)
OUR FEDERAL GOVERNMENT
[HTTP://WWW.FEDWORLD.GOV](http://WWW.FEDWORLD.GOV)
F.C.C. [HTTP://WWW.FCC.GOV](http://WWW.FCC.GOV)
HOUSE OF REPRESENTATIVES [HTTP://WWW.HOUSE.GOV](http://WWW.HOUSE.GOV)
INTERNET/PACKET GATEWAY
[HTTP://WWW.W2XO.PGH.PA.US](http://WWW.W2XO.PGH.PA.US)
I.T.U. INFO [HTTP://WWW.ITU.CH](http://WWW.ITU.CH)
LAT./LONG LOOKUP [HTTP://WWW.MIT.EDU:8001/GEO](http://WWW.MIT.EDU:8001/GEO)
NEIGHBORHOOD ANTENNAS
[HTTP://WWW.HAMWEB.COM/~SJL/STONER/ANTENNA.HT](http://WWW.HAMWEB.COM/~SJL/STONER/ANTENNA.HT)
ML
NTIA [HTTP://WWW.NTIA.DOC.GOV](http://WWW.NTIA.DOC.GOV)
SARAX
[HTTP://WWW.NASA.GOV/SAREX/SAREX_MAINPAGE.HTML](http://WWW.NASA.GOV/SAREX/SAREX_MAINPAGE.HTML)
WHOWHERE? (FIND PEOPLE YOU ARE LOOKING FOR)
WWW.WHOWHERE.COM

UTAH AMATEUR RADIO CLUBS

UARC or Utah Amateur Radio Club meets the first Thursday of each month except the months of July and August. The meeting is held in the Theatre Building located on the Salt Lake County Fairgrounds (5200 S. and 200 E.) just south of Murray Park at 7:30 PM. There is a newcomer's meeting held prior to the main meeting at 7:00 PM.

The Davis County Amateur Radio Club meets the 2nd Saturday of each month at 10:00 AM at the Davis County Sheriff's Office, 800 West State street, Farmington UT. Members and nonmembers are welcome. Dues are \$15.00 per year and can be paid at any Club meeting. The Davis Club supports the 147.04 repeater. DAVIS ARES conducts a net each Thursday at 7:00 PM on 147.42 simplex. They also have a DAY node for packet on 145.07. For further information please contact Kent Whitney KI7ST 444-1264

OARC or Ogden Amateur Radio Club meets the 3rd Wednesday of each month in Ogden at 7:00 PM. The meetings are held at the Red Cross building at 2955 Harrison BLYD. Members and nonmembers are invited. Dues are \$15.00 per year and can be sent to P.O. Box 3353, Ogden, Utah 84409. OARC supports the 146.90 repeater and conducts a net there Tuesdays at 7:30 PM. They also support the 146.82 repeater. The contact person is Jerry Peters WA7ADK who can be reached at 825-8798.

The VHF Society is a group dedicated to maintaining a system of repeaters in our area. Dues are \$10.00 per year and can be sent to PO Box 482 Bountiful Utah 84011-0482. The VHF Society holds a swap and traffic net for it's members each Tuesday night at 8:00 P.M. on the 146.940 repeater. For further information please contact Eldon Kearl KB7OGM at 571-9955.

Salt Lake County ARES (Amateur Radio Emergency Services) conduct a net each Wednesday Night at 8:00 PM on the 146.88 repeater. All amateurs are welcome to participate. Their in-person meeting is held the third Wednesday of each month. For more information please contact Kirk Boman 278-9799 or Jerry Wellman W67ULH 969-8258

Utah Valley ARES holds their general meeting the 1st Tuesday of every month at 7:00 PM. They also conduct a net each Tuesday at 9:00 P.M. on the 147.34 repeater which is also linked to the 224.7 repeater. The contact person is Robert Earl. N7EGG at 225-8870

MARA or Mercury Amateur Radio Association is a world wide group of Radio Amateurs dedicated to training and traffic handling for emergency operation. They conduct VHF nets each Wednesday at 9:00 PM. They also conduct health and welfare traffic net on 3.873 MHz (80 meters). The Salt Lake area is on the 146.74 repeater and their contact person is Willy Peako N7VVL at 466-1114. The Ogden area is on the 145.49 repeater and the Provo area on the 145.37 repeater with Vince Newmeyer N7MLP at 785-5611 as their contact person.

UPRA (Utah Packet Radio Association) holds their general meeting on the 2nd Saturday of each month at 2:00 PM at the State Capitol Annex Building north of the State Capitol. All amateurs are welcome. The purpose of the Club is to

THE MICROVOLT

educate people who are new to packet and to coordinate packet activities. Their dues are \$15.00 per year and can be sent to PO Box 92 Riverton, UT 84065. Their contact person is Jack Christensen, KC7NX at 277-6629.

UBET (Utah Box Elder Thiokol) holds a net every Wednesday at 8:00 PM on the 145.43, 448.300, 145.29 repeaters. Net control changes monthly. Contact Wayne Jensen AB7TS for details about net. Club meetings are held the first Tuesday of every month at 7:00 PM in the Thiokol Rec. Council Building (old J.C. Penney's building) 62 South Main Street. (East side of street next to Brigham City sign.) Club President is Doug Nelson KC7HGL 257-1520.

THE BRIGERLAND AMATEUR RADIO CLUB meets the 2nd Thursday of the month (except June, July, and August) in the basement of the Sheriff's Office. They hold a net at 9:00 PM on the 147.20 repeater every Tuesday. Their contact person is Dean Stevens N7WVY at 753-2664.

THE UTAH TCPIP Users Group Of UTUG is an informal group that discusses TCPIP protocols and other packet information. They are geared to all levels of users, new and seasoned. They hold a weekly net Sundays at 8:00 PM on the 146.620 repeater. Their contact person is Matt Simmons KG7MH at 965-1038

The High Valley Net from Heber meets every Monday at 9:00 PM on the 147.18 repeater. Their contact person is Doug Neilson, N7PPW at 756-5927 or Joe Chanworth, KG7GY at 564-3598

The University of Utah Radio Club is open to University Staff, alumni and students. There is a fully equipped station available 24 hours a day. Their contact persons are Marvin Match KA7TPH at 581-6085 or Clint Turner KA7OEI at 972-5541

The Salt Lake Community College Amateur Radio Club is open to anyone. They would like to welcome interested parties to join them. They meet on the South campus in room N285 on the first Saturday of the Month at 3:00 PM. Please contact Keith KI7SL at 957-3247

Rosky Mountain Radio Assn. is open to all Utah hams and they support the 447.900, 448.400, 448.700 repeaters. Their net is on 447.800 and 52.525 (six meters) every Wednesday night at 8:00.

Please contact Maro Peterson (KB7YJJ) at 977-1845 for info!

Upcoming Events

What To Do This Year?

July 9 Steak fry

August No Microvolt

Sept. 4 Swap meet

Oct. 2 **Rosh Hashanah** We would like to have Eldon K. and John Lloyd talk about repeater interlinks

October 31 Halloween

Nov. 6. **HOME BREW**

Dec. 4 Elections.

Dec. 25 Christmas

Dec. 31 New Years Eve

DON'T FORGET STEAK-FRY!!



UARC's annual Steak-Fry and Swap Meet, the biggest event of the Club year, will take place on Saturday, July 19. It will be held at the traditional location, Area 7 of the Spruces Campground in Big Cottonwood Canyon. The Swap Meet will start at about 2 p.m., and dinner will get underway at about

5 p.m.

Reservations are required and must be received by July 12. Note that the June Club meeting will be the last opportunity to sign up in person.

Here are the prices:


- Members: \$2
- Guests: \$9
- Children: \$3

Reservations can be made by mail. Send requests and checks to the Club Secretary:

Gary Openshaw, KC7AWU
861 Roosevelt Avenue
Salt Lake City, Utah 84105

Please Be Careful With Fireworks This 4th!



The Microvolt 

FIELD DAY

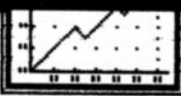

NO ONE'S SHOCKED

NO PROBLEM!

HOUSTON

CHICAGO

NOBODY WASHINGTON

THE FIELD DAY MEETING

Thanks to Linda Reeder for the update on what went on at the Field Day Meeting this month. She mentioned that NY4I talked about where field day is going to be, which has been decided on Payson Lakes. He told about the equipment that will be set up there. W7SP Utah 2A. This means that we will have 2 stations, set up CW and single side band. "A" means that we are out in the field. If you were at your home and wanted to participate it would be your station call letters Utah 1D. He showed the computer entries.

It is so neat if you have duplicates it will beep at you. The computer will even send CW so all you have to worry about is copying. Then Gordon show his famous slides of field day.

- 73 N7HVf Linda Reeder



FROM THE EDITOR

I REALIZE THAT IT IS ONLY JULY, BUT I WOULD LIKE TO TELL THE CLUB THAT I AM NOT RUNNING FOR EDITOR NEXT YEAR. IF SOMEONE WOULD LIKE TO TAKE OVER THIS POSITION, THEY SHOULD START 'THINKING' ABOUT IT NOW. I WOULD LIKE TO THANK EVERYONE FOR THEIR HELP AND ESPECIALLY FOR THOSE CLUB MEMBERS THAT KNEW I COULD DO IT. YOU HAD

MORE CONFIDENCE IN ME THAN I DID. I AM JUST A LITTLE TOO FAR AND DO NOT REALLY GET THE OPPORTUNITY TO COME TO THE MEETINGS, ETC. I HAVE LOVED THIS POSITION, AND I HOPE TO BE ABLE TO DO IT AGAIN FOR YOU. YOU ARE THE BEST CROWD IN THE WORLD-LET'S MAKE THIS LAST FEW MICROVOLTS THE BEST I HAVE EVER DONE!735---COKIE EDDY KC7MDV

Everyone Once In a while it is good to re-print the by-laws for those of you that are interested.

THE UTAH AMATEUR RADIO CLUB

BY-LAWS--revised November 5, 1981

SECTION I: DIRECTORS, OFFICERS AND DUTIES

A) **Directors:** There shall be a **Board of Directors** of at least three (3) in number which shall consist of **Officers of the Corporation** and in addition the immediate **Past President**.

B) **Officers:** The **Officers** shall consist of: **President, Executive Vice-President, Vice-President, Secretary, Treasurer, two (2) Program Chairmen, Editor, and Assistant Editor.**

C) **Directors and Officers** shall serve for a period of one year and until such time as their successors shall have been elected and take office at the close of elections.

D) **President:** The **President** shall be the administrative head of the **Club**; shall preside at all meetings; and shall conduct same according to the rules adopted. The **President** shall enforce due observance of the **Articles of Incorporation**, and its **Bylaws**; decide all questions of order; The **President** alone shall sign all official documents that are adopted by the **Club**; and shall act as its spokesmen and representative at meetings with other organizations and committees unless some other member is delegated so to act in any instance by him/her or the **Board of Directors**. A pronouncement shall not obligate or commit this **Club** unless this obligation or commitment has been specifically authorized by the **Board of Directors**. The **President** shall perform all other customary duties pertaining to the office of **President**. All candidates for the office of **President** shall have held **membership** in the **Club** continuously for at least one year immediately prior to the election date. For election eligibility purposes, **membership** is considered continuous if it contains only one lapse not exceeding ninety days.

E) **Executive Vice-President:** The **Executive Vice-President** shall possess all the powers and assume all the duties of **President** in the event of the absence, disability, refusal, or failure to act, of the **President**. The **Executive Vice-President** shall, further, assist the **President** in all

THE MICROVOLT

functions of that Office; and shall perform such other duties as are properly assigned to him/her by the **Board of Directors**.

F) **Vice-President:** The **Vice-President** shall possess all the powers and perform all the duties of the **President** in the event of the absence, disability, refusal, or failure to act, of the **President** and the **Executive Vice-President**. The **Vice-President** shall act as **Liaison Officer** as required and act as **Chairman of the Bylaws Committee**. The **Vice-President** shall perform such other duties as are properly assigned by the **Board of Directors**.

G) **Secretary:** The **Secretary** shall keep an accurate record of all official meetings of the **Club**, which may be read upon request. The **Secretary** shall keep a copy of the **Articles of Incorporation and Bylaws** present at all times; shall keep these in good order; shall effect all changes and additions in same; shall permit same to be consulted by **members** upon request. The **Secretary** shall be responsible for the safe keeping of the **Articles of Incorporation and Bylaws**. The **Secretary** shall keep a roll of all **members**, and the current status of these **members**; shall keep a roll of **members** present at meetings; and shall accept all applications for **membership**; shall carry on all necessary correspondence for the **Club**; shall read all communications.

H) **Treasurer:** The **Treasurer** shall keep an accurate and current record of all monies received and disbursed by the **Club**; shall read all bills; shall receipt for all bills paid and monies received. The **Treasurer** shall pay no bill without the approval of the **Board of Directors**; shall submit at the end of each quarter an itemized statement of all receipts and disbursements. The **Treasurer** shall deposit all monies received in the Bank approved by the **Board of Directors**. The **Treasurer** shall be the **Property Officer** and have custody of, and safeguard, keep in good order, and report who is in possession of **Club** property when the final statements are presented. At the expiration of the **Treasurers** term all the property and records belonging to the **Club** will be turned over to the new **Treasurer**.

I) **Program Chairpersons,** under the direction of the **Board of Directors**, shall be responsible for the presentation of the technical program features of the meeting; they shall endeavor to promote generally increased knowledge of the radio technique among its **members**; they shall organize club **member** activities, plan and recommend contests for the operating benefit, and advance **Club** interest and activity as approved by

6

the **Club**. They may call upon any **member** to assist them in their various projects.

J) **Editor**: The **Editor** shall carry out all duties pertaining to, and be responsible for, the maintenance and the publication of **THE MICROVOLT**, the official paper of the **Club**. The frequency of the publication shall be determined by the **Board of Directors** in accordance with U.S. Postal regulations. The date of mailing should be at least one week prior to each general meeting. The **Editor** shall mail all notices of meetings, shall carry on all correspondence necessary to the office; shall maintain a mailing list. The **Editor** shall submit monthly bills for the maintenance and publication of the **Club** paper, and shall be reimbursed for the expenses in connection therewith.

K) **Assistant Editor**: The **Assistant Editor** shall assist the **Editor** in maintaining and publishing the official **Club** paper and perform such other duties as properly assigned him/her by the **Board of Directors**. The **Assistant Editor** shall assume all duties of the **Editor** in event of the **Editor's** absence, disability, refusal, or failure to act.

SECTION II: BOARD OF DIRECTORS

The **Board of Directors** shall be the governing body of the **Club** and as such shall formulate and be responsible for all matters of policy. It shall review all reports of conduct unbecoming a **member** of the **Club** and, if sustained, submit the matter to the body of the **Club** at a regular meeting. In the event of the inability of the **President** of the preceding year to serve as a member of the **Board of Directors**, the **Executive Vice-President** of the preceding year will fill the vacancy. Decisions of the **Board of Directors** shall be reached upon majority vote; thereupon the **President** shall execute the decisions so made or the policies so formed.

The **Board of Directors** shall actually meet in regular or special meeting in order to transact business. The newly elected **Board of Directors** shall take office immediately following the election meeting. The new **President** shall call a regular organizational meeting of old and new **officers** within ten days of the election meeting. The **Board of Directors** shall normally meet in regular meeting, duly called, once each month.

SECTION III: DUES

Dues shall be payable upon election to **membership** and at yearly intervals thereafter. Term of **membership** shall be 12 consecutive months. **Dues** should be paid to the **Treasurer** and shall be used to defray the general expenses of the **Club**.

THE MICROVOLT

The yearly **dues** will be recommended by the **Board of Directors** and approved by the **membership** of the **Club**.

SECTION IV: AMENDMENTS

The **Bylaws** may be adopted and amended by a two-thirds (2/3) majority vote of the **membership** present at any duly called meeting (provided they constitute a **quorum** as defined in **Section VII**). Proposals for **amendments** shall be submitted in writing to all **members** of the **Club** one month before the actual vote.

SECTION V: PROCEEDINGS

Robert's Rules of Order shall govern all **proceedings** of the **Club**, subject to the discretion of the **members**.

SECTION VI: FISCAL YEAR

The **Fiscal Year** shall begin on January 1st and end December 31st.

SECTION VII: MEETINGS

Meetings shall be held at least once each month except in July and August. A regular date, time, and place for the **meeting**, excepting **special meetings**, shall be selected by the **Board of Directors**, but may be altered by a majority vote of the **membership**. **Special meetings** may be called by the **President**. he/she shall be required to call a **special meeting** upon receipt of a written request signed by five (5) or more voting **members**.

All **members** shall be notified at least forty eight hours before the time set for a **meeting**. The voting **members** present at any duly called **meeting** shall constitute a **quorum** for all purposes. However, the election or removal of **officers** or change of **Bylaws** shall require a minimum of ten per cent of the voting **members** to constitute a **quorum**.

SECTION VIII:

Members shall have the privilege of voting, the use of the **Club's** repeater systems and facilities, and shall remain on the **Club** mailing list when their dues are not in arrears more than three (3) months.

SECTION IX:

A **member** charged with conduct unbecoming a **member** of this **Club** may be expelled by a two-thirds (2/3) vote of those present at a meeting if the **Board of Directors** has found the charges are sustained by its investigations.

An **Officer** or **Director** may be removed from Office by a two-thirds (2/3) vote of a quorum as defined in **SECTION VII**.

SECTION X:

Special committees may be appointed from time to time as the need arises. They shall be appointed by the **President** and shall meet with the approval of the **Board of Directors**. These **committees** may include:

- A) **Bylaws Committee.**
- B) **Historical Committee.**
- C) **Public Service Committee.**
- D) **Field Day Committee.**
- E) **Steak Fry Committee.**
- F) **Nominating Committee.**

SECTION XI:

This **Club**, it's **Officers**, **Committees**, or **Members** shall not attempt to govern the action of its **membership** in the **Operation** of their **amateur radio stations**.

SECTION XII:

It shall be the permanent policy of this **Club** to support the **American Radio Relay League**. This is expressed in the affirmation therewith and the participation in the activities thereof.

SECTION XIII:

These **Bylaws** may be suspended in case of emergency by unanimous vote of those present at a **meeting** which has been duly called.

SECTION XIV: ELECTION PROCEDURES

A) Vacancies occurring between **elections** shall be filled by special ballot, at the first regular **meeting** after the withdrawal or resignation is announced.

B) Procedures for Regular **Elections**.

1) By the October **Board of Directors meeting** a **Nomination Committee** shall be appointed by the **Board**. By the November general **meeting** the committee will have chosen a slate of nominees, at least one for each office.

2) At the November **meeting** nominations will be opened to the floor. After the close of the nominations, the **Nominating Committee** will add its selections to the

THE MICROVOLT

Slate. Then nominations from the floor will be accepted again.

3) The entire list of candidates will be published in the **Microvolt** prior to the December **meeting**.

4) At the December **election meeting** nominations from the floor will again be opened.

5) The nominees are encouraged to present a short autobiographical sketch or campaign letter to the **Microvolt** for publication in the December issue. The candidates may participate in a brief question and answer period at the **election meeting** prior to the vote.

SECTION XV: REPEATER SYSTEMS AND FACILITIES

A) **Repeater Committee:** The **Repeater Committee** and none other shall be responsible and shall have authority over any and all **Club Stations** operating at VHF or higher Frequencies. It shall set proper policies and procedures for usage of such **Club stations** by other operators.

The **Committee** shall consist of four members: **License Trustee**, **Liaison** from the **UARC Board of Directors** (**Executive Vice-President** or **Vice-President** as selected by the **Board of Directors**), **Station Engineer**, and **Autopatch Engineer**. The **committee members** (other than the **Board Liaison**) are elected by **UARC membership** at large in duly called **meeting**. With the exception of **Board Liaison**, which changes yearly, **Repeater Committee members** shall hold office until they resign or are replaced in response to a directive from the **Club membership**. Such a directive becomes effective upon a majority vote of those members of the **Utah Amateur Radio Club** attending a duly called **meeting**.

B) **Funding:** Repeater maintenance **funds** shall be provided from the general fund of the **Utah Amateur Radio Club**.

C) **License Trustee:** The **License Trustee** shall hold all licenses for **Club Stations** operating at VHF and above; shall be the official representative of the committee with all outside agencies and groups; shall be chairman of the **Repeater Committee** and officiate at its **meetings**.

D) **Station Engineer:** The **Station Engineer** is ultimately responsible for construction and maintenance of all **Club Stations**; shall see that all equipment is operating properly and in accordance with good Amateur practice, and shall be responsible for keeping all associated reference materials (schematic diagrams, instruction manuals, etc.) current and up to date, and provide any

other needed data to other **Committee members** upon need. The **Committee** and the **membership** at large shall give the **Station Engineer** all support necessary to perform his/her duties.

E) Autopatch Engineer: The **Autopatch Engineer** is ultimately responsible for the construction and maintenance of all **Club Autopatch systems** and equipment. The **Autopatch Engineer** shall be responsible for keeping all associated reference material (schematic diagrams, instruction manuals, etc.) current and up to date and provide any needed data to other **committee members** upon need. The **Committee** and **membership** at large shall give the **Autopatch Engineer** all support necessary to perform his/her duties.

F) Information: All policy and procedure changes shall be submitted by the **Secretary** for publication in the next issue of **The Microvolt** following such changes. A general statement of policies and procedures shall also be published at least annually.

G) Board Liaison: The **Board Liaison** shall maintain liaison between the **Board of Directors** of the **Utah Amateur Radio Club** and the **Repeater Committee**.



LIFE WOULD BE A MISTAKE WITHOUT RADIO AND



MUSIC—who said that???

THE MICROVOLT



CONGRESS ACTS TO PROTECT VOLUNTEERS

The US House and Senate have passed companion bills aimed at shielding volunteers from lawsuits resulting from their activities as volunteers. The Senate has passed S 544, and the House has passed a companion bill, HR 911, each

described as "The Volunteer Protection Act of 1997." The Senate is expected to adopt the House version of the bill and send to President Clinton for signature.

As a result, volunteers of nonprofit organizations and government entities will, in the words of the House Judiciary Committee report on the bill, "generally be relieved of liability for harm caused if . . . the volunteer was acting within the scope of the volunteer's responsibilities."

This will be good news to Volunteer Examiners, Official Observers, ARES and RACES volunteers and others working under the sponsorship of a qualifying non-profit organization, all of whom appear to be covered by HR 911. The pending new law means that you aren't as likely to be sued as a result of harm unintentionally caused to someone else, if your actions were part of your responsibilities as a volunteer working on behalf of a government agency or a non-profit organization.

Amateurs and other volunteers are advised that until the bill is signed by the President and its various loopholes pass the scrutiny of the legal community, they should not assume they'll automatically be covered. It appears, for example, that ham volunteers not working under the sponsorship of a qualifying organization and who provide communication during a marathon, bicycle race or other public service or public safety event might not be covered. The same exclusion might apply to frequency coordinators and certain others who--though they are volunteers--aren't participating on behalf of a non-profit entity. The law will clearly protect only those who are "volunteers of a non-profit organization or government entity." The definition is less clear with respect to "non-profit organizations." These can be Section 501(c)(3) entities, that is, an organization holding a certain tax exemption from the IRS. But, they also include those organizations which may not be tax-exempt, but which are organized

and conducted for public benefit and operated primarily for charitable, civic, educational, religious, welfare, or health purposes.

The growing reluctance of private citizens to volunteer for fear of lawsuits triggered interest in this legislation. Some states have enacted volunteer protection statutes, but inconsistency among the various state laws prompted the League to promote liability legislation in Congress, initially to protect VEs and Amateur Auxiliary members.

The new legislation requires that the volunteer be licensed, certified or authorized, "if appropriate or required" by state or local authorities. It does not provide protection where the harm was caused by willful or criminal misconduct, gross negligence, reckless misconduct, or conscious, flagrant indifference to rights or safety of the individual(s) harmed by the volunteer. The House version of the legislation would not cover any volunteer who inadvertently caused harm to another person while operating a motor vehicle that requires an operator license or insurance. Also, certain limitations in existing state volunteer liability laws are not preempted by the Federal protection under the bill.

ARRL General Counsel Chris Imlay, W3KD, is studying copies of the House and Senate bills to determine the impact of the new legislation on Amateur Radio volunteers.

--The above article was submitted to the Microvolt by one of Cokie Eddy's Reporter-type Trolls Chuck Johnson. (Treasurer UARC)

MORE ARRL..DIFFERENT SOURCE!

The ARRL Letter Online

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IN THIS EDITION:

- * Seventeen schools on STS-94 SAREX list
- * FCC suspends ticket in interference case
- * New NL section official for 97 Sweepstakes
- * RS-10 silence explained
- * Blaha to visit Oklahoma Field Day
- * CyberHam Magazine QRX
- * Ham Radio & More goes short-wave only
- * NY Amateur Radio Month Proclamation presented
- * Solar Update
- * Thomas O'Malley Moore, K3LTV, SK
- * In Brief: This weekend on the radio; ARRL requests 7100-7300 kHz
for American Samoa; DXCC Processing Status; N6TX goes full-time with The SETI League; QSTs for Amateur in

THE MICROVOLT

Scouting; AEA Division announces appointments; CIB chief quitting FCC; FCC makes 47-GHz band spectrum available; Mir SAFEX 70-cm repeater operational; AO-27 frequency drift

SEVENTEEN SCHOOLS ON STS-94 SAREX SCHEDULE

Thanks to SAREX -- the Shuttle Amateur Radio EXperiment -- students at 17 schools, including one in the People's Republic of China, are scheduled to talk with the astronauts on the upcoming STS-94 mission aboard the shuttle Columbia. STS-94 is a "re-fly" of the April STS-83 mission that had to be cut short when a problem developed in one of the shuttle's fuel cells. STS-94 is set to launch on July 1. During the earlier mission, Columbia prematurely returned to Earth April 8 without making any of the scheduled SAREX QSOs. Most of the schools on the earlier schedule remain on tap for the July mission, which will again carry the microgravity science lab. Three hams are among the STS-94 crew members. They are Jim Halsell, KC5RNI, the mission commander; Janice Voss, KC5BTK; and Donald Thomas, KC5FVF.

Under the SAREX program, students at each of the selected schools ask questions of the astronauts during the contact. The primary goal of SAREX is to excite students' interest in learning.

Schools selected by the SAREX Working Group for a ham radio contact during this mission include: Mountain View Elementary School, Prescott Valley, Arizona; Center Street School, El Segundo, California; Lone Junior High School, Jackson, California; Foursquare Radio Amateur Youth, Oxnard, California; Crittenden Middle School, Mountain View, California; Robert J. Burch Elementary School, Tyrone, Georgia; Edgewater High School, Orlando, Florida; Lexington Traditional Magnet School, Lexington, Kentucky; Discovery Place Inc., Charlotte, North Carolina; Lawrence Intermediate School, Lawrenceville, New Jersey; Yeso Elementary School, Artesia, New Mexico; Public School No 9, New York, New York; Du Bois Middle School, Du Bois, Pennsylvania; Dunn's Corners Elementary School, Westerly, Rhode Island; Alvin C. York Agricultural Institute, Jamestown, Tennessee; S.J. Davis Middle School, San Antonio, Texas; and Tsinghua University, Beijing, People's Republic of China.

During most SAREX missions, many of the crew members will make random contacts with earth-bound hams. This crew will use KC5RNI, KC5BTK and KC5FVF on FM voice and W5RRR-1 on packet. They make these contacts during their breaks, before and after meal time, and during their pre-sleep time. In fact, over the past years the astronauts have contacted thousands of amateurs around the world. On many missions, they have even carried a 2-meter packet radio station. Innovative computer software allows the crew to operate the packet gear in an "unattended" mode, allowing amateurs to make contacts with the RÖBÖT station when the astronauts are working or sleeping.

The SAREX Working Group has designated the following frequencies during this mission. FM voice downlink (worldwide): 145.55 MHz; FM voice uplink (except Europe): 144.91, 144.93, 144.95, 144.97, and 144.99 MHz; FM voice uplink (Europe

10

only): 144.70, 144.75, and 144.80 MHz; FM packet downlink: 145.55 MHz; FM packet uplink: 144.49 MHz.

Hams should avoid transmitting on the shuttle's downlink frequencies.

The uplink is your transmitting frequency. The crew will not favor any uplink frequency, so your ability to communicate with SAREX will be the "luck of the draw." Transmit only when the shuttle is within range of your station, and when the shuttle's station is on-the-air.

QSLs go to ARRL EAD, STS-94 QSL, 225 Main St., Newington, CT 06111-1494. Include the following information in your QSL or report: STS-83, date, time in UTC, frequency and mode (FM, voice or packet).

You must also include a business-sized SASE.

Additional STS-94 mission information is available from NASA at the NASA Shuttle Web site, <http://shuttle.nasa.gov>. — Glenn Swanson, KB1GW

NEW YORKER'S HAM TICKET SUSPENDED FOR 15 MONTHS

The FCC has suspended the Technician Class license of a ham in Brooklyn, New York, for causing willful or malicious interference, using obscene or indecent language and failure to identify. The licensee, Anthony Barben Jr, N2WNF, consented to a 15-month suspension which resulted from the FCC's efforts to resolve a rash of interference cases in the New York City-Long Island area. The FCC said the violations occurred in November 1996.

The FCC's Enforcement Division has requested that Barben forward his license to the Commission. The suspension became effective this week.

NEW SECTION UPS THE ANTE ON SS CLEAN SWEEP

Keep an ear out for VO1 and VO2 call signs during this fall's ARRL Sweepstakes! Canada's new Newfoundland-Labrador (NL) Section will be among those that SS participants will have to snag this November on their way to that coveted Clean Sweep Award. The ARRL received formal notification of the change last week from Radio Amateurs of Canada President J. Farrell "Hoppy" Hopwood, VE7RD, although the addition of the NL section actually was approved last year. Some NL hams gave NL as their section in last fall's SS, although the change had not yet been incorporated into the list of SS sections. Joe Craig, VO1NA, of Torbay, Newfoundland, is the Section Manager in NL. RAC Vice President and General Counsel Tim Ellam, VE6SH, said the new section was created "primarily as it was hard to service VO1/2 from the MAR (Maritimes) section due to geography."

The addition of a new section could prove to be a significant challenge for those hoping to work all ARRL and RAC sections, plus VE8/VY1 (a total of 79 multipliers) in the popular fall event. Some Canadian sections already are among the more difficult ones to find and work. (A heads up: Ellam says RAC has also explored the possibility of creating additional new sections north of the border, but no decisions have been reached yet.) The change also means that those who use computerized logging

THE MICROVOLT

programs will have to add the new section to their program's list of SS sections—just as they had to do last fall with the addition of the Northern New York section.

This year's ARRL Sweepstakes weekends are November 1-2 (CW) and November 15-16 (SSB).

RS-10 SILENCE EXPLAINED

AMSAT News Service reports that the RS-10 beacon, ROBOT and transponder remain silent while designer and builder Andy Papkov carries out experimental work with the satellite from the RS3A command station. Leonid Labutin, UA3CR, reports that it is hoped that RS-10 will be active again before its tenth birthday later this month.

A special event station to celebrate RS-10's number 10 is being planned from June 21 until June 29 by a group of UK RS enthusiasts, including G4CUO, G4ZHG, G6HMS, G0MKA, G7MUB, G8DYK and G0MKA. They will be active as GB0RAS on all modes on each pass of RS-10, RS-12, and RS-15 and the Japanese FUJI satellites. A serial number will be given for all QSOs on each satellite, and a commemorative QSL card will be sent to each station contacted or SWL.

The RS-10 uplink (CW or SSB) is 145.865 to 145.905 MHz, and the downlink is 29.36 to 29.40 MHz. —AMSAT News Service

ASTRONAUT TO VISIT FD, SPACE CAMPS IN OKLAHOMA

Ham-astronaut John Blaha, KC5TZQ, will be on the air for Field Day later this month as a guest of Oklahoma's Lawton/Ft Sill Amateur Radio Club, W5KS. That word from Mark G. Ewell, KC5LZN, who reports the club confirmed the arrangements with NASA's Johnson Space Center. Blaha and his wife, Brenda, will visit Oklahoma June 26-29, and will also visit two area youth camps the day before FD begins.

"Although our initial desire was to arrange for John Blaha to meet one of his more frequent Mir contacts, Ashley Cagle, WB5OTD, we quickly found out serendipitously that Cameron University will be sponsoring its two-week SpaceCamp for high school students ending June 27 and that the Great Plains Regional Vo-Tech Center will be sponsoring its TechWeek technical camp for junior high students ending June 26." He said the club would try to set up a 2 meter station at one or both of the camps to give the youths a chance to use ham radio. Ewell says Blaha will spend Friday with the campers and be a guest at a Chamber of Commerce luncheon, then help to operate Field Day the next day with the W5KS group. "We might try to make a Mir contact," Ewell said.

While he was aboard Mir for approximately four months late last year and early this year, Blaha was very active on ham radio.

For more information, see the W5KS Web site, <http://www.w5ks.org>.

CYBERHAM MAGAZINE QRX

CyberHam Magazine publishers Gene Harlan, WB9MMM, and Shari Harlan, WB9SFT, have announced that the magazine has

been put "on hold" and has ceased publication. Gene Harlan said the reason is that the

magazine has not been successful getting enough new advertisers, and some advertisers had dropped out altogether. In addition, he said subscriptions were down. "I know times are tough for all amateur radio retailers and manufacturers, and we were hoping that we could ride the upcoming sunspot cycle as the interest came back," Harlan said, adding that he and his wife want to "leave the door open" for someone to take over the magazine or perhaps try it again later when its prospects look brighter.

"A mailing will go out around July 1 explaining what we will do to take care of what we owe people," Harlan said. "We intend on keeping Harlan Technologies going." He said software sales had been supporting the magazine.

CyberHam Magazine began publication last September as an effort to merge interest in ham radio and computers. It had been published bi-monthly.

HAM RADIO & MORE TO GO SHORTWAVE ONLY

Starting this Sunday, June 15, The Ham Radio & More show, hosted by Len Winkler, KB7LPW, will only be available via short-wave broadcast on WWCR, 5.070 MHz. The program airs live at 2200 UTC. The former originating station--KFNN, an AM broadcast station in Phoenix,

Arizona--dropped the program for lack of advertiser support. Winkler, who had announced that his June 8 broadcast would be the last, had a change of heart this week and will continue HR&M on WWCR.

The program had been syndicated by KFNN via satellite to local commercial outlets. It also was available via Internet audio. "I will continue to have guests each week, except the first week of each month, which is Rag Chew Open Lines with my co-host, Ned "The Professor" Stearns, AA7A," Winkler said. The Ham Radio & More will rebroadcast on WWCR Sundays at 0500 UTC on 5.070 MHz and Tuesdays at 0800 UTC on 3.210 MHz. The program, now in its seventh year, will continue to be commercially sponsored.

For more information, contact Len Winkler, KB7LPW, Ham Radio & More, Box 9219, Phoenix, AZ 85068-9219; tel 602-861-0303; e-mail lenwink@goodnet.com, <http://www.goodnet.com/~lenwink/hrm.htm>.

AMATEUR RADIO MONTH PROCLAMATION PRESENTED AT ROCHESTER

Several ARRL dignitaries were on hand May 31 at the Atlantic Division Convention at Rochester, New York, when Hudson Division Assistant Director (and Eastern New York Public Information Coordinator) Stephan Anderman, WA3RKB (fifth from left), formally presented the document signed by New York Gov. George Pataki, ex-K2ZCZ, proclaiming June as Amateur Radio Month. Those pictured (from left to right): ARRL Vice

President Hugh Turnbull, W3ABC; Western New York Section Manager Bill Thompson, W2MTA; ARRL First Vice President Steve Mendelsohn, W2ML; Hudson Division Director Frank Fallon, N2FF; Anderman; Atlantic Division Director Kay Craigie, WT3P; Former Hudson Division Director Stan Zak, K2SJO; and

THE MICROVOLT

Atlantic Division Vice Director Bernie Fuller, N3EFN. Similar ceremonies were held at the Northern New York hamfest

June 7, at the LIMARC meeting June 9 and in Carmel, New York at the QSY Society meeting on June 11. (Photo by Arte Booten, N2ZRC) --Frank Fallon, N2FF

SUN FALLS FLAT AGAIN

Solar prognosticator Tad Cook, K7VVV, Seattle, Washington, reports: Solar activity is flat again, with solar flux headed into the low 70s. Flux values are expected to stay this way into the next month. There was an upset on Monday when the planetary A index was 33 and the K index was as high as six. This signaled greater absorption of radio waves, especially over polar paths. NOAA had a recent report on the number of days with no sunspots for each month over the past four years. The values are in a bar graph, and there was a trend of more and more spotless days per month until October, 1996. The number of spotless days per month have been declining since then, a welcome sign for propagation watchers hoping for better conditions.

W6LX wrote to inquire about the comments of KE8YX in our last report, asking what he meant by the next solar cycle perhaps being a record cycle. I assume that he meant that the next cycle could rival cycle 19 from the late 1950's in activity. That would be nice.

Sunspot numbers for June 5 through 11 were 15, 15, 17, 36, 23, 11 and 11 with a mean of 18.3. The 10.7 cm flux was 73.9, 74.2, 74.7, 73.2, 73.1, 71.9 and 70.8, with a mean of 73.1, and estimated planetary A indices were 3, 8, 11, 11, 33, 6, and 3, with a mean of 10.7.

THOMAS O'MALLEY MOORE, K3LTV, SK

Veteran amateur and broadcasting engineer Thomas O. Moore, K3LTV, of Bethel Park, Pennsylvania, died June 6, 1997. He was 86. An ARRL member, Moore was active on 40 meter CW and on 6-meter SSB and CW and had been on the air up until a few weeks before his death. Moore worked at WMMN radio in Fairmont, West Virginia, WDTV-TV (Channel 3) in Pittsburgh, Pennsylvania, and KDKA-TV (Channel 2) in Pittsburgh, Pennsylvania. He retired from KDKA-TV as chief audio engineer. His son, Thomas II, W7KMA, and daughter-in-law Samboon, WH6CRA, are among his survivors. --Thomas O'Malley Moore, II, W7KMA

In Brief:

* This weekend on the radio: ARRL June VHF QSO Party, Asia Pacific Sprint, West Virginia QSO Party, Portugal Day, WW South America CW Contest and the TOEC WW Grid Contest are all on tap for this weekend.

* ARRL requests 7100-7300 kHz for American Samoa: The League has asked the FCC to amend its Amateur Service rules to permit ham use of 7100 to 7300 kHz in the Territory of American Samoa on a non-interference basis to broadcasters "as a domestic exception to the International table of Frequency Allocations." American Samoa, in ITU Region 3, is an unincorporated, unorganized territory of the US some 2100 miles from New Zealand. The current 40-meter band in Region 3 extends from 7000 to 7100 kHz. The ARRL said the

absence of ham access to the entire 7000 to 7300 kHz band impedes communication "because the emergency communications stations that would otherwise be accessible to American Samoa amateurs are established above 7100 kHz." The petition notes that Western Samoa, Australia and New Zealand all permit domestic use of the entire 7000 to 7300 kHz allocation by hams as long as harmful interference is not caused to the primary occupant of the 7100 to 7300 segment in Region 3, the broadcasting service. * DXCC Processing Status: The DXCC Desk reports that the number of unprocessed applications at the end of May 1997 was 350 (28,738 QSLs). The DXCC Desk received 443 applications (32,928 QSLs) for endorsements and new awards during the month. This compares with 313 applications (25,423 QSLs) for April and 322 applications (23,897 QSLs) for March. Applications being sent out at the end of

May were received about two weeks earlier. A few application received prior to that time were in the process of being audited, and so had not yet been completed.

* N6TX goes full-time with The SETI League: H. Paul Schuch, N6TX, will become full-time executive director of the non-profit SETI League Inc. The organization, devoted to a scientific, privately funded search for extraterrestrial intelligence, signed a five-year contract with Schuch last month. During his first year with the SETI League, Schuch was on sabbatical from his teaching duties at the Pennsylvania College of Technology. He'll now resign that position to devote his full energies to SETI. "After 24 years of teaching, I was, frankly, quite ready for a new challenge," said Schuch. The SETI League recently welcomed its 500th member.

For more information, contact The SETI League, Box 555, Little Ferry, NJ 07643; tel 201-641-1770; fax 201-641-1771; e-mail n6tx@setileague.org; <http://www.setileague.org/>.

* QSTs for Amateur in Scouting: Rich Reitz, KB2CJNJ, would like to donate his complete collection of QST from 1930 until 1975 to someone in Amateur Radio and Scouting. If you or your group is interested, contact him at rbreitz@eclipse.net. — ScoutRadio * AEA Division announces appointments: Former AEA president and cofounder Mike Lamb, N7ML, has been formally named director of marketing of the new AEA Division of Tempo Research. Lamb will work out of his office in Bozeman, Montana. He'll be responsible for marketing and sales. The AEA line of antenna products, antenna analyzers, and the AEA trade name were purchased early this year by Tempo Research Corporation of Vista, California. L. Wayne Dewey, WD6AHZ, has been appointed product manager for the AEA division. He'll direct customer service. Founded in 1984, Tempo Research is a manufacturer of test equipment for the telecommunications industry. For more information, contact AEA at 760-598-9677 or Mike Lamb at 406-587-3795.

* CIB chief quitting FCC: Beverly G. Baker, chief of the FCC's Compliance and Information Bureau, has announced she will leave the FCC next month to pursue opportunities in the private sector.

She has been bureau chief since August 1994. —FCC

* FCC makes 47-GHz band spectrum available: The FCC has made available for public, commercial use 1 GHz of spectrum in the 47-GHz band. The FCC made available 47.2 to 48.2 GHz, which is currently allocated for fixed, fixed-satellite and mobile uses.

THE MICROVOLT

The action does not involve the Amateur Radio allocation at 47.0 to 47.2 GHz. The Report and Order was adopted May 2. — FCC * Mir SAFEX 70-cm repeater operational: Reports from Europe indicate that the Mir UHF FM voice repeater is now working. The uplink frequency is 435.750 MHz, and the downlink is 437.950 MHz. The required CTCSS tone is 141.3 Hz. Francisco Costa, CT1EAT, reports working ON6GP on a June 7 pass over Europe. —AMSAT News Service * AO-27 frequency drift: The 70-cm downlink signal from AO-27 is slowly drifting lower in frequency with time. This drift is due to the natural aging of the transmitter crystal. Controllers can adjust the downlink frequency slightly to compensate for the drift, however the frequency change that has occurred to date is greater than the amount that can be compensated for by controllers. Users are asked to take this into consideration when monitoring the AO-27 downlink (currently 436.792 MHz). —SpaceNews

THE ARRL LETTER

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Visit the ARRLWeb page at <http://www.arrl.org>.

The purpose of The ARRL Letter is to provide the essential news of interest to active, organizationally minded radio amateurs faster than it can be disseminated by our official journal, QST. We strive to be fast, accurate and readable in our reporting.

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* The ARRLWeb page (<http://www.arrl.org/arrlletter/>). This version of The ARRL Letter includes any photographs.

* The HIRAM BBS: 860-594-0306.

* The ARRL Technical Information Server (Info Server): Send an e-mail message to info@arrl.org. The subject line should be blank.

In the message body, type send ltrmmdd.txt, where mm represents two digits for the month and dd represents two digits for the day (The ARRL Letter is published every Friday). For example, to request The ARRL Letter file for Friday, January 3, 1997, you'd type send ltr0103.txt. Then, on a separate line, type quit.

* CompuServe and America Online subscribers, as a downloadable text

file in the services' ham radio libraries

* The Netcom server, run by the Boston Amateur Radio Club and Mike

Ardaí, N11ST: Send e-mail to listserv@netcom.com (no subject needed). The body of the message should say subscribe letter-list.

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-Thank You Tom Shaffer

UTAH REPEATERS

UTAH REPEATERS --CALLSIGN-- FREQUENCY--
LOCATION

WB7CBS146.700-	Altamont, Tabby Mtn.
KF7CK 145.250-	American Fork
NU7X 147.040+	Antelope Island
KA7GZH146.880-	Bacchus
KB7OGM147.120+	Bear Lake, N. of Lake Town
KE7FO 145.290-	Brigham City
KE7FO 145.430-	Brigham City
	Thiokol Butterfield
	Peak, Oquirrh Mts.
WB7RYE147.140+	Cache Valley
WA7KMF449.800	Carbon County
KA7LEG145.410-	Castledale, Cedar Mt.
NC7F 147.140+	Castledale, Horn Mt.
WX7Y 147.060+	Cedar City
N7IQD 145.470-	Cedar City
N7IQD 146.800-	Cedar City
N7DZP 147.060+	Cedar City, Iron Mt.
K7JH 146.760-	Clearfield Davis County,
KC7OUC447.35-	Cross Banded to147.20
NU7X 449.25-	Duchesne
N7PQD 147.260+	Tooele, Black Mt.
W7DTO 145.350-	Ephraim, Skyline Drive
W7JGS 146.660-	Hooper
N7TOP 146.920-	Kanab, TV Site
WA7VKV146.880-	Kanab, PL 123
WI7M 449.85-	Spencer Bench, North of Kanab
WI7M 147.360+	Jacob Lake
WA7VKV 147.300+	Kearns
WB7BCJ 145.270-	Kearns
WA7SYU 147.300+	Lehi, Point of the Mt.
WA7YZR 147.220+	Logan, Wheelon Peak
WA7KMF 145.310-	Logan, Downtown
N7PEG 146.640-	Logan, Mt. Logan
N7PEG 146.720-	Logan, Mt Logan
N7PEG 449.625-	Mifflord, Frisco Peak
WA7GTU 146.940-	Monroe, Cove Mt.
WA7HSW 147.300+	Monticello Abajo Peak
K7QEQ 146.610-	Moab, Bald Mesa
K7QEQ 146.760-	Murray Ogden
WB7V 146.740-	Promontory, PL 123
W7WQC 145.490-	Ogden, Powder Mt. Ogden,
W7WQC 146.680-	Kaysville Peak, PL 123
KC7UB 146.820-	Ogden, Little Mt., PL 123
KC7UB 146.900-	Ogden, PL 88.5
NU7X 146.880-	

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NU7X 146.940-	Ogden, PL 100
N7NRX 146.780-	Orem
W7EU 147.380+	Parley's Canyon
WA7GIE 147.360+	Park City, Lewis Peak
WB7RPF 147.020+	Payson, West Mt.
KB6VWN 146.860-	Payson, West Mt.
WX7Y 147.320+	Price, Bruin Peak
KA7LEG 145.430-	Price
WB7TSY 147.280+	Provo, Lake Mt.
WB7TSY 147.280+	Provo, Lake Mt.
WB7TSY 147.340+	Provo, Lake Mt.
WA7PKL 145.470-	Provo
W7SP 146.760-	Provo, Lake Mt.
W7OHR 147.260+	Provo, Orem
W7OHR 147.260+	Provo, BYU Campus
WA7FFM 145.230-	Provo, mouth Provo Canyon
WA7HSW 146.640-	Richfield, Signal Peak
N7VQW 146.860-	Richfield, White Pine Peak
KA7BPB 146.920-	Roosevelt
WB7CBS 145.490-	Roosevelt, Altamont
K7HEN 147.240+	Roosevelt Tabby Mt.
W7NFT 146.640-	St. George, Red Hill
W7NFT 145.450-	St. George, Schmutz Hill
NR7K 146.820-	St. George Utah Hill
NR7K 146.910-	St. George Seegmiller Peak St. George,
KA7STK 146.700-	Winchester Hills St. George,
K6GHI 53.625 52.525 out,	Schmutz Hill
N7GGN 147.100+	Salina, Beesting Peak
W7EU 146.700-	Salt Lake City
W7SP 146.620-	Salt Lake City, Farnsworth
Salt Lake146.88-	Salt Lake City, ARES Farnsworth
WB7NNM 145.210-	Salt Lake City, Holy Cross
K7JL 147.180+	Salt Lake City, Snowbird Salt Lake City,
K7JL 146.940-	Farnsworth, PL 100
WA7SNS147.160+	Salt Lake City, Ensign Peak
K7FY 145.450-	Salt Lake City, Curry Peak
K7JL 147.120+	Sandy
N7CGH 145.370-	Sandy
KR7H 146.980-	Tooele, Lookout Pass
K7LKH 145.390-	Dugway
KF7AG 147.040+	Vernal
KA7LWF147.100+	Vernal, Blue Mt.
N7PEO 147.200	Wellsville

Thanks to Morris (N7MDC) for the repeater information --
Sinbad Desert Amateur Radio Club.





FROM THE PREZ

The time has finally come for UARC to have a Club station. The Red Cross have now moved in and have given us a very generous space for the club station. For those who would wish to see the sight, the address is 440 South 5th East. We do not have it set up yet so we would ask that you just look at the building and not ask to go inside.

We will need your help in the very near future, we need those who would be willing to help carry and lift things up to the roof and help with the setting up of the station. I would also like to have those who would be interested in being control operators to get in touch with me

We would also be interested in those who would be willing to donate equipment ropes, coax and other station and tower parts etc..

We need a large pool of control operators who would be willing to help those who are learning to go and be in charge of the club station. A list will eventually be set up at our club meetings that will give all of you a chance to operate. This has been a labor of love that we have all wanted to see started. The station will have one HF rig, a VHF/UHF rig and a packet station. A lot of thanks need to go out to Kirk Boman and Jerry Wellman for the help that ARES has been in helping us get a location. It is my hopes that this will be the home for our club station for many years to come. We have the ability to use the area that the station is located in for our classes that we have been holding at the library. Please call me or E-mail me so that I can get the list prepared for those who we will need to help us setting up.

73 Alan Seyboldt KC7MUZ

THE MICROVOLT



"CONGRATULATIONS JAZZ



**FOR A JOB WELL DONE THIS
YEAR!" Bob Costas Bird**