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the ST. PATRICK'S DAY Periodicals MICROVOLT

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

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. 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 3 MARCH, 1997

ST. PATRICK'S DAY ISSUE



member of the VHF Society and UARC. He has been elected program chair person of UARC for 1997.

Jack, I'll be looking forward to working with you this year.
73 N7HVF Linda Reeder

The New Address For The
Microvolt Editor IS:
Cokie Eddy
147 East B/C 4th Avenue,
Dugway, UT 84022
New Phone 522-1171 (Ditto
Exchange)

Or 1-801-831-1171 (Long distance)

Happy St. Patrick's Day

Feature Of The Month

This month we are featuring Jack Warren KC7KEL. Jack was interested in amateur radio about 20 years ago. He had even purchased a low band rig and was about to enroll in a class in 1974. Unfortunately, due to circumstances beyond his control he had to sell the radio. It wasn't until 20 years later he finally got into the hobby. Jack was in a class I was teaching at the center for the blind in 1995. It was a small class and it was the shortest class I have ever taught. We started in February and at the end of March they had all passed their tests.

Jack has his tech plus license. He has passed the general theory and is desperately trying to pass the 13 words a minute. He enjoys FM voice, CW and voice on HF. One of the things he would like to see happen in amateur radio is people who want to do more than just ask their spouse to bring home a loaf of bread.

He would also like to see more participation in emergency communications. The thing he likes best about amateur radio is all of the friends he has made especially those who have helped him and the ones he has been able to help.

Jack is a member of the Voice of Idaho. He is impressed with the link system and wants to help support it. He is a



UTAH AMATEUR RADIO EXAMINATION SCHEDULE

Date	Location	Contact Person	Home Ph.

EXAMINATION PROGRAMS BY CITY

City: Brigham City	Contact Person: Bob Anderson, AA7TR
VEC: ARRL	Phone: 257-3021
Location: Basement of Zion's Bank at Main and First North	
Schedule: Twice annually, spring and fall. Details vary.	
Code tests at 6 p.m. Written tests at 7 p.m.	

2

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 Contact Person: Paul Hansen,
W07N
VEC: ARRL 1676 East 1600 North
Logan, Utah 84321
Home Ph: 753-4843 Bus. Ph: 752-6425
Schedule: Second Saturday of April and October, 9:00
a.m.

City: Ogden Contact Person: Matthew George,
AB7GM
VEC: ARRL 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 Contact Persons: Steve and Linda
Whitehead
VEC: W5YI 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 Contact Person: Gordon Smith,
K7HFV
VEC: ARRL 632 University Street
Salt Lake City, Utah 84102
Home Ph: 582-2438 Bus. Ph: 532-3400
Ext. 8116
Location: Blue Cross/Blue Shield Cafeteria

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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
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.

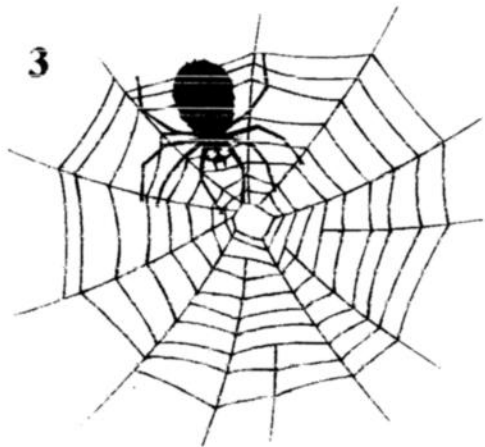
THINGS TO BRING TO TEST SESSION

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
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 JIMKATPA@AOL.COM
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 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/CEO](http://www.mit.edu:8001/geo)
 NEIGHBORHOOD ANTENNAS
[HTTP://WWW.HAMWEB.COM/~SJL/STONER/ANTENNA.HTML](http://www.hamweb.com/~sjl/stoner/antenna.html)
 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](http://www.whowhere.com)

Remember that even though some web-sites might be there today, they may not be there tomorrow. So, if any of these web addresses have changed, or if you have a special web-sight that you would like to see listed, please contact the Microvolt Editor at 522-4474.

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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 DAV 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 BLVD. 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 Poake 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 Capital. All amateurs are welcome. The purpose of the club is to 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, 149.29 repeaters. This net is followed by a CW net at approx. 8:30. Net control is Phil Siefkas KJ7LM, Garland UT.. They also meet the first Thursday of every month at 7:00 PM in the basement of the Zions Bank on the corner of main and first north in Brigham City. Their contact person is Stew Greenwood AB7BA at 863-2795.

THE BRIGERLAND AMATEUR RADIO CLUB meets the 2nd Thursday of the month (except June, July, and August) in the basement of the Sheriffs 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 TCP/IP Users Group Of UTUG is an informal group that discusses TCP/IP 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 Chenworth, 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

Rooky 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 Marc Peterson (KB7YJJ) at 977-1845 for info!

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LOOK WHAT'S IN STORE FOR THE NEW YEAR!

March 1 VHF Society Swap Meet Armory at Guardsman Way

March 6 Clint Turner KA7OEI will talk about packet radio

March 17 St. Patrick's Day!! Wear Green!

April 3 We would like to have someone talk about the Internet, but the person we wanted will not be available.

April 12 Utah Hamfest '97

May 1 Crazy HAT Day at the meeting. Wear your favorite crazy HAT, fishing hat, sitting around the yard hat, or favorite HAT to wear to field day.

May 1 Randy Kohlwey N7SFI will talk about satellite communications.

June 5 Field day

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**

Nov. 7 Microvolt Editor's Birthday.

Dec. 4 Elections. This is what we have so far.
73 N7hvf

***THERE WILL BE A 6 METER NET
WEDNESDAY NIGHTS 9:00 PM AT 50.125
USB. THIS IS A SWAP AND CHAT NET
AND EVERYONE IS WELCOME!!***

COKIE BRINGS NEWSLINE TO WEST DESERT AMATEUR RADIO CLUB

-Cokie Eddy

If you happen to have been listening to the 98 repeater on Tuesday at 7:00 p.m., you would have had the express opportunity of getting to hear The Microvolt Editor make her Amateur Radio Newsline debut. (Local) I wasn't featured in any of the articles or any of that

great stuff, I got to key and unkey the mike for the listening pleasure of all the amateur radio ravens. (that is my endearment for the West Desert Amateur Radio operators.)

I have to let Linda know that her job looks very simple but it isn't all that simple. I was afraid of timing out the repeater and I thought my little radio was going to blow up it got so hot. But I was comforted with the thought that if it died, it would have died for a good reason. At service to the people. Like all good radios should. (See, I decided that if I wasn't going to get articles from people for the Microvolt you were going to get stupid cow jokes and I was going to have to go out and MAKE my own headlines...)73- KC7MDV



VAESU 5T1000 \$2,500 OR
BEST OFFER
VIBROPLEX REV \$60.00
TEN TEC TITAN 425 LINEAR
AMPLIFIER 10-160 \$1,700
WATTMETER MOD 43 \$150.00
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ROTATOR W/ MULTIPLE 55
ANTENNA.
CALL PAUL 801-328-4052

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Nobody Asked Me, But...

Dave Eddy, KB7ZLH

1: Your HF Transmitter has no Power Out. B+ is normal, Filament Voltage is normal, Grid Voltage is Normal, there is 0.0 Plate Current.

What's Wrong?

- A: Your PA is missing.
- B: Your PA is Bad.
- C: Nothing, this is normal.
- D: The Antenna matching unit is mis-tuned.
- E: A or B

If you can answer this question with out too much mental/emotional stress, you may be qualified to work on HF Transmitters Rated above 1.5 kW... But you can't work J3E (SSB, suppressed carrier, single channel analog, Telephony) on the Amateur Radio HF Bands.

2: How do you properly dispose of a 4CX1500B?

- A: Throw it in the trash.
- B: Send it to the ARRL.
- C: Treat it as Hazardous waste and dispose of it according to your State and Local Laws.
- D: Burn it.

If you got close on that one, the EPA won't file charges, But you still can't Transmit on 40 meters.

3: If your 5, 12, and 24Vdc switching Power Supply doesn't seem to be working on the bench with this test setup (Figure 1) should you replace it?

- A: Yes replace it, the bridge is bad.
- B: No this is normal with out a load.
- C: Re-test the unit with the DMM set to AC.
- D: Replace the DMM with a VTVM.

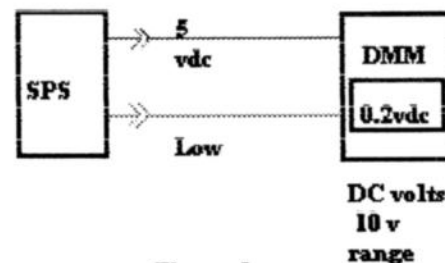


Figure 1

If you answered that one correctly you have a good working understanding of Switching Power Supplies... But you still can't Transmit on 20 meters with out someone who can read 13 WPM Morse Code to hold your hand and make sure you don't embarrass Amateur Radio.

Reportedly the number of applicants for Ham Radio Examinations have dropped off. A prime suspect is the Internet, where for as little as a \$500.00 one time investment and about \$20.00 a month, you can talk, type, send sound and pictures to most anywhere in the world.

For years untold the Holy Grail of Amateur Radio has been Morse Code.

- It keeps the CB crowd out.
- It fosters excellence.
- It ensures the continuation of a great tradition.
- It just may kill Amateur Radio if we continue to cling to it as a religion as we have been.

Now don't get me wrong, CW is and will always be the single most dependable mode of operation Amateur Radio has at its disposal. Therefore, if you want to communicate with code, go for it. Master the code, show people how it can be as fun as voice or data.

If you're trying to keep the undesirables out of Amateur Radio start asking questions about electronics on the tests. Not many people are willing to compute the resistance values around a simple DC parallel resistance circuit, given only the voltage drops, source potential, and total current, just so they can cause trouble on the air.

Not many people would be willing to explain current flow and nominal losses through an NPN Transistor, just so they can transmit music or drunken monologues over the HF frequencies allocated to the Amateur Services.

Judging from some of the conversations I've overheard on the HF and VHF bands some of you wouldn't do it to practice CW on HF. And some of you still, or never could.

As for the excellence argument, sure Code is difficult and high WPM rates are great ego boosters when achieved. I personally envy people who can do code proficiently and admire them for their skills. But sending and receiving code at 20WPM until the rotator on your beam antenna stops working, and you can't determine if its the control unit or the motor itself because you don't understand servo/syncro operation is much like sending data over the Internet until the modem

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settings are corrupted and you can't access the phone line because you don't know how to set your comm. ports.

So, what's my point you ask? Well I think we should consider opening some of the HF spectrum up to non-code users. The band plans recognized by Amateurs today already designates portions of the spectrum to code only, as well as other areas to voice and data modes. A good area to test this idea in would be the 10 Meter Band. Open the 10 Meter Band to a new class of license a Technician who has taken and passed the General Theory test perhaps (or even a revamped test with real electronics involved) call the license anything you like, but give people who for whatever reason don't share enthusiasm for the code an opportunity to develop or just to exercise their technical abilities and further enjoy Amateur Radio. Because ultimately if the people involved don't enjoy what they're doing, they will stop doing it. In this age of FCC auctions and frequency re-allocations the only way to ensure our place in the spectrum is to show use, the proper use of course, but use none the less. I think this would be one of the many ways we could ensure the growth of Amateur Radio and preserve the environment we all operate in. Open up the spectrum to non-code users and toughen up the tests.

I welcome any and all responses to this article... convince me!

And now the Answers....

1: E, (if the inputs are correct and there is no current flow, the tube is bad, not connected, or missing) 2: C (various toxic materials used in the ceramic body of the tube and on the plate and cathode) 3: B (with no load attached Switching Power Supplies have very low to no output.)



-Linda Reeder N7HVF

I thought that I would like to share this article on how to surf the Internet without the mouse.

This is the tutorial that I am going to use when

I teach this class in Malibu.

Surfing The Internet With Out The Mouse

Believe it or not you can surf the Internet without the mouse. For those of us who are visually impaired there is a way to get around on the Internet.

First of all, you need a modem the modem is connected to your telephone line. You might want a separate phone line for your computer depending upon your situation. There is a modem program which is speech friendly called Commo you can obtain Commo by calling Bill Elew 541-488-2518. I am sure there probably are other modem programs for the visually impaired, but this is the one I am familiar with. Once you have a modem and everything is connected up you are ready to start. In order to connect with the Internet you need what is called a server. When you are connected with your server your modem program can dial your server's phone number. Some servers are more expensive than others. Some have a flat fee with unlimited access and others have so many hours of unlimited access. I prefer a flat fee with unlimited access. When selecting a server make sure it that has UNIX access. This means that it is DOS based which enables you to move around by way of keyboard.

Email which stands for Electronic Mail is a part of the Internet where you can send and receive mail all over the world. There are several mail systems you can use when sending and receiving messages. I will tell you about three of them. There is the UNIX standard mail program. When you hear your prompt type mail return and it will tell you if you have mail. If you have mail it will tell you how many messages you have then return and it will read them to you. If you want to send a message back to someone after reading the message hit r for reply and return.

It will ask you for the subject. The subject can be whatever you want it to be. For example, hello or just the date. After you have written the subject return and start writing your message when you are done writing the message return . all by its self return and your message will be sent and you will be back at your prompt. If you want to send a message to someone else when you are at your prompt type mail space type the email address of the person you are sending the message to return write your subject return and type your message. Remember when you are finished return put the period all by its self return. On this system you can have an address book. This means you won't have to type a person's email address every time you want to sent them a message. When you are at your prompt you can type mail space the person's name return subject return and write your message. Here is how you set it up. When you are at your prompt type ed (space).mailrc (return) \$a (return) alias name email address return.(return) wq (return) and you will be back at your prompt. If you need to make changes in your address book press ed(space) .mailrc (return) then you can move up and down in your address book by pressing - or + to move up and down in your address book. An easier way to do this is type /the name of the person/p for print then you can hid for delete then a to add your changes or you could type s/old/new. The disadvantage about this system is that it makes editing a bit awkward. while in this system you cannot move your

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cursor up and down so you have to get out of this system and get into an edit mode. However, there are some commands you can use while in this system such as: control/r retype current line, control/w erase current word, and control/u erase current line.

This next system is very simple to use. It is called elm. When you are at your prompt type elm return The commands are: d delete, u undelete, m mail message, r reply to message, j move down, k move up, question mark help, i index and q to get out. When you are in main menu of elm type the number of your message hit return twice. You can edit in this system, you cannot have an address book.

The last system I am going to talk about is a lot more sophisticated. It has a lot more capabilities and commands. you can attach text files, it has an address book and you can move the cursor up and down and all around when you need to edit.

When your are at your prompt type pine and return then you are in the main menu. Here are the commands: question mark help, c compose message then space and write the email address or just the name if you have it in the address book remember to put a comma after the email address or the person's name and return, i folder index, l list your messages, a address book, s setup, r reply to message, control/x send message and q to quit pine.

When someone sends you a message in this system if you don't have their email address you can if you are at their message press t you will be in the address book it will ask you the name you want to use then it will put it in your address book. In this system these same commands mean different things depending on what screen you are in. For example, when you are in the address book control/x save in address book. When in the main menu type the letter o return and it will give you a list of all of their commands.

Before leaving email there is one more item I would like to show you. For example if you wanted to send an article to handihams and you already have it on a floppy disk here is how you would send the article. A lot depends on the type of modem program you are using, but here is how I do it. When I am at my prompt I type rz return pageup z and the name of my article return after transfer is completed you will be back at your prompt. Then you could go in to pine return c email address, return it will ask attachment I would type the name of article return it would ask for introductory comments I could say a few things about the article then return subject return control/x send this message yes or no If I were using the standard mail system after completion of transfer I would be back at my prompt so I would type mail space email address (return) introductory comments (return) subject (return~) r name of article (return) period (return) and you will be back at your prompt. Here is another way to send this article on the standard system. When I am at my prompt I would type the name of my article mailadr return tilde/r email address (return) subject (return) pageup a file name (return) period (return).

Once you have accomplish this task if you want to delete this article off your server when at the prompt type rm and the name of the article return and it will be deleted.

The world wide web is a big part of the Internet. When you are at your prompt type lynx space then the web page address you want. Lets use the handiham web page address type

<http://www.mtn.org/handiham/> now that we are on the web page this is how we get around. First of all, it will read you the menu then use your up and down arrow keys to select the one you want.

When you find the one you want then you hit the right arrow key you should be on the one you want. There is a problem with this. For some reason the screen reader announces the one it left instead of the menu it is on. I thought it was just my screen reader, but I have talked to other blind individuals who have the same problem. There are some ways around this problem. After the menu has been read type /the name of the item you are looking for another thing you can do is make your LINX become numbers when at your prompt type lynx return type the letter o for options (return).it will ask you if you want lynx to be numbered yes or no. In the lynx program it will not announce the numbers so when you hear the menu you need to keep track and hit the number that that item is. Here are the commands used when in the lynx system: space move to next page, b get a page, e edit, d download, /search, question mark help, g go to another web address, 7 type of page, l end of page add bookmark, v view bookmark and q to get out. The bookmark is like the address book. You can fix it so you don't have to type the entire web page address. This is nice because some of those web page addresses are pretty long. At the prompt type ed space bin/name you want to call it return a return lynx web page address return . return wq return and you will be back at your prompt. Now you don't even have to type lynx for example, when I want to get into handihams web page address at my prompt I type hh(return) and their handiham's web 's web page.

Another program that is excellent for visually impaired individuals getting around on the Internet is gopher. This program announce the number and the name of the menu so then you can type the number that you want. For example, 4 is jughead. When you type number 4 return then it will ask you for a topic type the name of a topic such as blind return and it will give you all the information available on this topic. Here are the gopher commands: right arrow select current item, left arrow back to previous item, up arrow up one item, down arrow down one item, space next page, b back one page, / search, n search next item, m jump to main menu, alternate commands return select item, u back one menu, k up one item, j down one item, control/p up one item, control/n down one item, >move to next page, <down previous page, o move to previous page, plus next page, minus to previous page, s save current item to a file, d down load to current file using book marks, a add to current item, A add to current menu d delete a book mark, v jump to book mark list, question mark help, equal sign technical information about an item, q quit gopher and Q quit gopher immediately.

There is so much to do on the Internet. There are news groups which are public conferences where you can read and write messages to others and some news groups give information only.

There are thousands and thousands of different news groups and you could get lost easily in them. One of the safest ways to use news groups is at the prompt type rn and the subject you are interested in. There is telnet which allows you to have access to data bases. There is even away to talk back and forth by way of computers.

THE MICROVOLT

If you want more information on any of the topics I have mentioned at the prompt type faq which stands for frequently asked questions space and the name of the topic and return. You can also type man space name of subject return.

At least this information can get you started. Have fun.
-73 N7HVF Linda Reeder



FROM THE PREZ

Hello to all,

Does it feel like spring as of late?
With the warm Wx coming I can think of at least 5 things that I

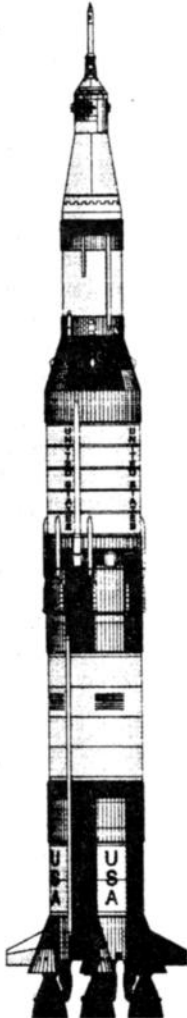
need to do on my antenna system, And you probably can also. I have really appreciated all the warm bodies that helped me with my antenna and ham projects. With the warm Wx coming many will need help with antenna parties and such. If you have the time, listen on the air for someone who needs help and give of yourself. You will understand why I expressed my thanks for those who helped me. Someday it will be your turn to do the antenna project, and you will appreciate all the help you can get. Start planning now for Field Day because it will be here before you know it.

73-Alan



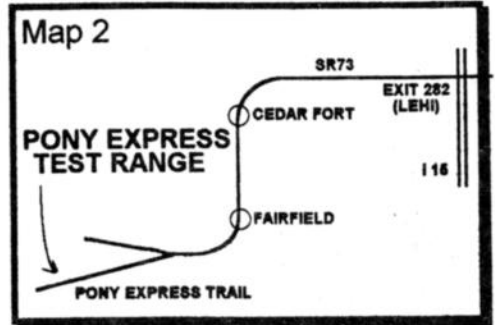
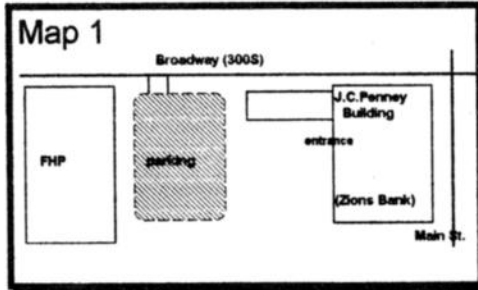
The Utah Rocket Club

Do you like to build and fly rockets? Would you like to meet other spacemodeling enthusiasts? The Utah Rocket Club is just the group for you!



UROC is the local section of the National Association of Rocketry and the local Prefecture of the Tripoli Rocketry Association. We have monthly meetings, construction workshops, field trips and (most important) rocket launches. Tired of being chased from field to field? We have a legal flying site where you can fly anything from 1/2A to G. An FAA waiver is in effect for those who wish to fly H and up. So what are you waiting for? Come on out and fly with us!

Club meetings are at 10 am on dates as shown on the schedule at the J.C.Penney building in downtown SLC. (See map 1) Activities include club business, discussions, workshops, planning of events and Show-and-Tell. (Show off your latest rocket projects!)



The Pony Express Test Range is the official launch site for the Utah Rocket Club and guests. \$3 range fee for non-members. Launches are as shown on the schedule, starting at about 9 am. (The earlier the better. Winds usually start kicking up around noon.) Take the Lehi exit, follow SR73 west, turn onto the Pony Express Trail, drive about three miles. The site will be on your right. (See map 2.)

For more info, contact:
Frank Hunt 544-1306
Bryan Mogensen 281-1752
Fred Williams 972-1917

Annual dues are \$15 individual, \$25 family. Make checks payable to the Utah Rocket Club. Mail to:
Fred Williams
3683 S, 2200 W
West Valley City, UT 84119

Name: _____ NAR# _____ TRA# _____

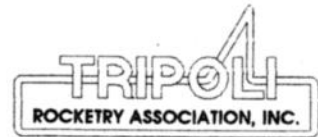
Address: _____

City, State, Zip _____ Phone: _____



National Association
of Rocketry

Section # 523

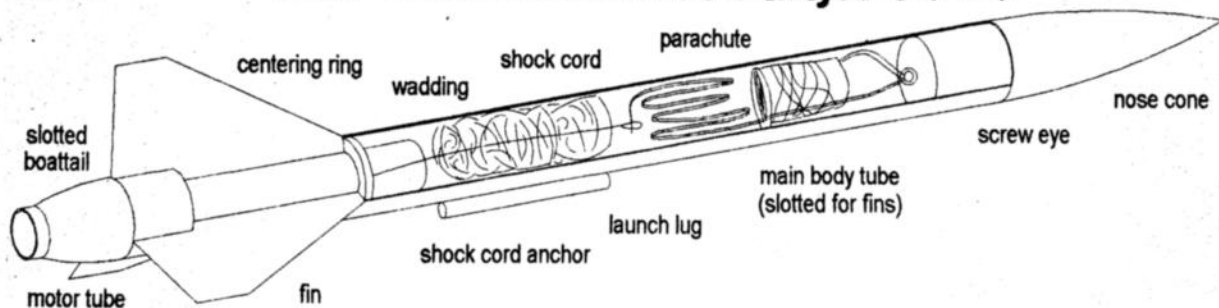


Prefecture Tripoli Utah

The Utah Rocket Club

Calender of Events for 1997

Jan 9	Meeting at 7 pm, JC Penney Bldg
Jan 18	Workshop at Bryan's
Feb 13	Meeting at 7 pm, JC Penney Bldg
Feb 15	Workshop at Bryan's
Mar 13	Meeting at 7 pm, JC Penney Bldg
Mar 22	Sport Launch, Pony Express Test Range
Apr 10	Meeting at 7 pm, JC Penney Bldg
April 19/20	Sport Launch, Pony Express Test Range
May 8	Meeting at 7 pm, JC Penney Bldg
May 17/18	Sport Launch, Pony Express Test Range
Jun 12	Meeting at 7 pm, JC Penney Bldg
Jun 21/22	Pioneer '96 Contest, Pony Express Test Range
Jul 10	Meeting at 7 pm, JC Penney Bldg
Jul 20	Sport Launch or Workshop
Jul 25-Aug 1	NARAM 39 National Meet, Tucson, AZ
Aug 8-12	LDRS High Power Launch, Hartsel, CO
Aug 14	Meeting at 7 pm, JC Penney Bldg
Sep 11	Meeting at 7 pm, JC Penney Bldg
Sep 20/21	<i>Hell Fire 4</i> High Power Launch (Bonneville)
Oct 9	Meeting at 7 pm, JC Penney Bldg
Oct 18	Workshop at Bryan's
Nov 1	Sport Launch, Pony Express Test Range
Nov 13	Meeting at 7 pm, JC Penney Bldg
Dec 6	UROG X-mas Party!



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OFFICE MAGAZINES...



2-16

M i x e D e M e d i A By JACK Oman

