



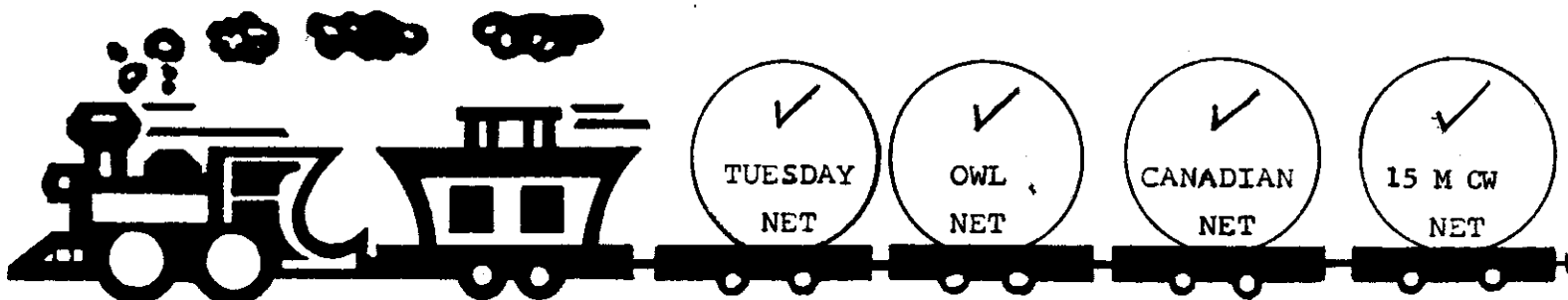
**"THE U.S.E.C.A. EXPRESS"
 UTICA-SHELBY EMERGENCY
 COMMUNICATIONS ASSN.
 MACOMB COUNTY
 147.18/.78**



**PUBLISHED MONTHLY
 BY
 USECA INTERNATIONAL**

YOUR EDITOR: WB8QNI

**EXPRESS YOUR TRAIN OF THOUGHT,
 BY PARTICIPATING IN ONE OR ALL USECA NETS!**



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POINT NETS

Sun.	1300 EDT	147.78/147.18
Tue.	2100 EDT	147.78/147.18
Thu.	1930 EDT	21.165 CW
Fri.	2359 EDT	147.78/147.18

OTHER NETS

Sun.	2200 EDT	21.125 CW
Mon.	2200 EDT	21.125 CW
Tue.	2100 EDT	28.400 SSB
Tue.	2200 EDT	21.125 CW
Wed.	2200 EDT	21.125 CW
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and

SUNDAY, SEPTEMBER 20, 1987

L'ANSE CREUSE HIGH SCHOOL

0800 - 1500

First Prize \$500.00

Second Prize \$100.00

Third Prize \$50.00

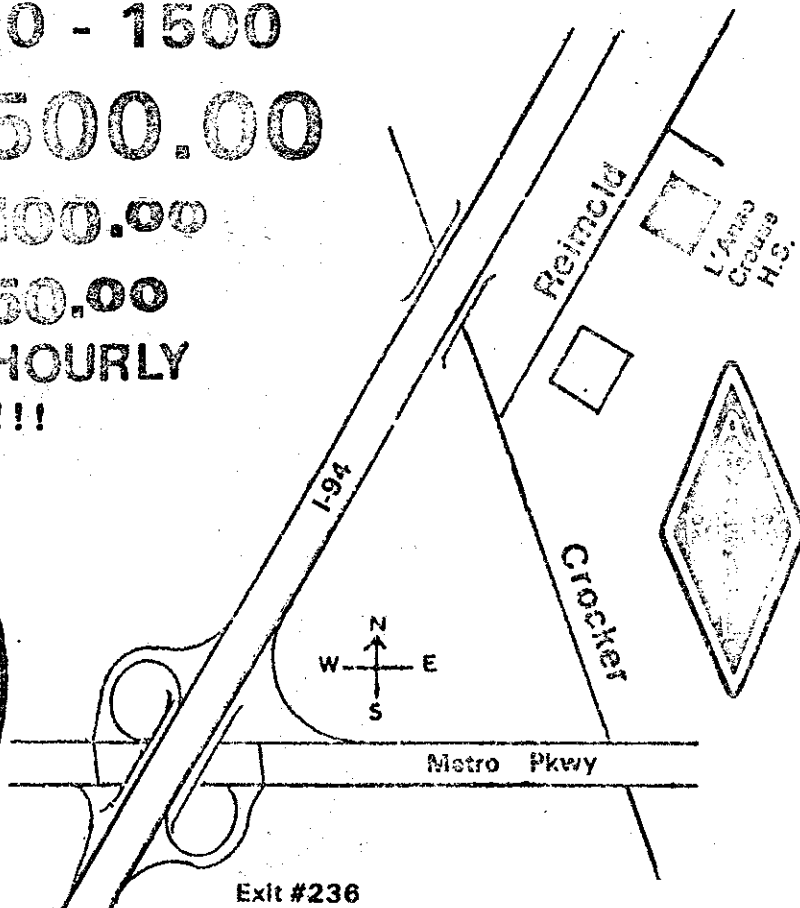
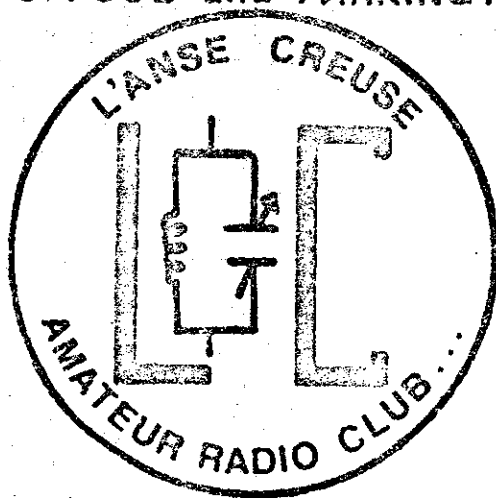
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EDITORIAL

Since the beginning nearly 2 years past, the USECA EXPRESS Newsletter has been serving the membership with club facts ,news,reminders,net info, & various other tid-bits of information of interest to it's radio minded members. It has done this well, primarily due to the dedicated efforts of its' founder and Editor, VANCE DUPUIS, W8BQNI. Frankly, I don't see how,with holding 2 jobs and working nearly ALL the time ,he ever managed it; but he did! And did it well! (thank you Vance.)

Now, --NO MORE --Vance has unavoidably "left the helm" of the ship he launched and piloted for twenty months. He certainly deserves a rest,and his life has new, compelling priorities,such that he can not remain as Editor.

But what of the USECA EXPRESS? Vance has asked that some person find it in his or her heart to step forward and carry on his efforts.

Well,I did not exactly 'STEP FORWARD'. In fact, when asked, - I balked,hemmed and hawed, and proclaimed a litany of excuses related to my incompetence,inability to do the job,lack of time,and other such trivia that only a professional Procrastinator such as myself, can conjure up! I was afraid! I'm still afraid! But,having a genuine desire to help out,and perhaps a secret latent desire actually to do this;I changed my mind and said "Ill try".

[Actually--MOM kicked me in the butt and said "You should be honored that they asked you! Why don't you do it?"] Well, I never could refuse MOM, or the big pleading eyes of a Basset hound! Somehow they both get to me!

So, for better or worse,- (and let's not even think of the latter)- HERE I AM:

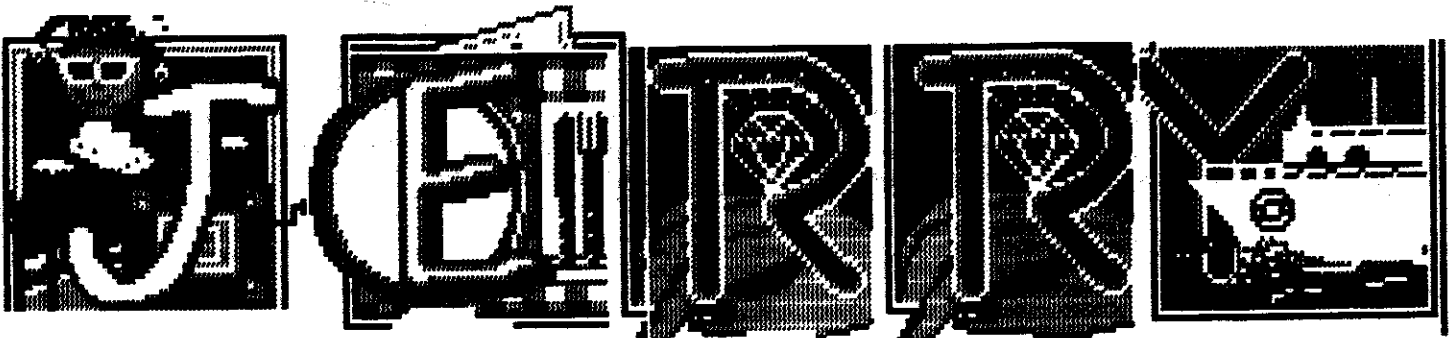
WILLING- to edit the Express Newsletter
 HOPING- for member contribution and support
 GOING TO - add fuel to the boilers and
 KEEP- the USECA EXPRESS on track & running well.

[How do you ride the Engine and Caboose at the same time?]

Sincerely,
 Your humble servant,
 & new EDITOR,

Jerry McSim

Jerry, KBCFY



UTICA -SHELBY EMERGENCY COMMUNICATIONS ASSOCIATION
P.O. BOX 1222, Sterling Hgts., MI 48311-1222

DATE..... [] NEW APPLICATION [] RENEWAL

CALL CLASS AUTO-PATCH

NAME.....

ADDRESS.....

CITY.....ZIP CODE.....

TELEPHONE.....TO BE LISTED IN ROSTER? [] YES [] NO

BIRTHDATE.....ARRL MEMBER? [] YES [] NO

SPOUCE'S NAME & CALL.....

[] COPY OF CURRENT LICENSE FOR U.S.E.C.A. FILE

MEMBERSHIP \$15 AUTOPATCH \$35 (one time only) plus \$15 yearly
ONLY PAID UP MEMBERS HAVE AUTOPATCH PRIVELEGES.

WHAT'S THE VALUE OF ONE MEMBER?

Ten little members standing in a line.
One disliked an officer, then there were nine.
Nine ambitious members offered to work late.
One forgot her promise, then there were eight.
Eight creative members had ideas good as heaven.
One lost enthusiasm, then there were seven.
Seven loyal members got into a fix.
They quarreled over programs, and then there were six.
Six members remaining with spirit and drive.
One moved away, then there were five.
Five steadfast members wished there were more.
One became indifferent, then there were four.
Four cheerful members who never disagreed.
'Til one complained of meetings, then there were three.
Three eager members! Woe! What do they do?
One got discouraged, then there were two.
Two lonely members. Our rhyme is nearly done.
One joined a bridge club, then there was one.
One faithful member, feeling rather blue,
Visited a neighbor, then there were two.
Two earnest members each enrolled one more.
They doubled their number, and then there were four.
Four determined members simply couldn't wait.
So each found another, then there were eight.
Eight excited members signed up 16 more.
In another six verses, they'll be a thousand twenty-four.

This slightly abridged version of an anonymous work gives out a serious message. But, do we have to make that large dip in membership before we heed the meaning? Make certain that you will not be that "One faithful member." Do your share now and SIGN UP THOSE RADIO USERS-out there who are looking for the camaraderie and help that our group can offer.

WATCH THOSE DECIBELS -- THEY EAT POWER ! by W8FBH *

What's a dB? A dB is basically a ratio between one level and another. However, because of the mathematics (which we will skip for today) voltage or current ratios are expressed in twice the number of dB's as power ratios.

Let's examine the power dB as we use it in our hobby of amateur radio. Fact No 1: A power change of 3 dB up or down is the least noticeable change that can be detected by the human ear, or at the other guy's receiver input. Fact No. 2: In order to make a plus 3 dB change, you must **DOUBLE YOUR POWER, NO MATTER WHERE YOU START!** Let's digest this for a moment. If your rig has a 1 watt output, you will get a +3dB gain if you go to 2 watts. But also --and here is where the confusion comes in -- if you already have, say, 20 watts out, and you tweak everything to get 25 watts out, you have gained very little at the input of the other guy's receiver. Remember Fact No.1: To make the least noticeable change you must raise your power 3dB. Fact No.2 states that you must go to 40 watts for this ! So why risk burning up your output transistor for a few extra watts that nobody notices? Suppose you now have a perfectly good 50 watt amplifier and have a chance to upgrade it to 80 watts by a shrewd swap and some green stamps. But your first noticeable change would need to be 100 watts. You have gained very little by moving to 80 watts!

It works the other way, too. If you use an old crummy piece of co-ax cable to feed your antenna, and have a 3dB loss through the cable, you have lost half your power.

On the other hand, if you improve your antenna system you can get the effect of higher power. For instance, if you install a 6dB antenna instead of the basic quarter-wave, the received signal is the same as if you raised your output power 4 times. Put a 6dB antenna on a 50 watt amplifier and the receiver thinks you have increased to 200 watts!

So take it easy! Don't beat up your rig for the sake of a few percent increase in output. You might feel better about it, but it won't be detected at the receiving end. If you are in the fringe areas, and need more power, investigate the use of a better antenna and use a good quality of co-ax cable to feed it.

* Stolen from an old issue of GLRA Newsletter--(jvm)



packet radio



help

HI,

I for one enjoy Packet Radio. Its a new and very enjoyable form of communication for myself and many others. But again it can be a big headache if you are frist starting it with just the manual and know other help. May I suggest that you open your manual to see that all parameters are set for the (DEFAULT) frist of all. Now close the manual put it in a saft place. Easy so far right?

Now that the manual is out of the way the only thing we have to do is change about ten (10) parameters. they will be numbered 1 thru 10, starting with 1. MYCALL change it to your call. 2. AX25L2V2 put this one in the (ON) position. 3. CMSG also change this to the (ON) position. 4. CTEXT here you will put a message like (I'am not at the key board right now, pls leave a message and disconnect.) 5. CALSET I use 32896 (this was already set.) 6. CONSTAMP set this to (ON) also. 7. FRACK I set mine to 5. 8. RETRY this is the amount of tries you want your tnc to try to make contact from 1 to 10 times. 9. DAYUSA this is use to give the date and time. to set print DA yymmddhhmm dayusa. 10. This is the BIG ONE its called TXDELAY. From what i know about this one the best way to set it is with other operators in your area and also each brand of TNC has a different type of setting so this is the information i have for this area and some of the TNC 1. MFJ 1270 or MFJ 1274 set TXDELAY at 45. 2. PK 64 set TXDELAY at #7 or #8. 3. 232 set TXDELAY at #15 or #16. 4. camtron set it at # 2 or #3.

Well thats about it. hope I've help some of you out and that my information is correct? If anyone can give me more input it sure would help full. I'am very new at this type of operations myself and if it wasn't for the help of others i would have put the tnc on the shelf along time ago. Thanks to all of them.

O thier is one other thing that I would like to mention and that is you may have to change the devation in your rig. The odds are very slight but it dose happen sometimes.



For those of you interested in how your Upgrades, Renewals ect. are handled.

License Renewals to be sent directly to the FCC, Gettysburg. All incoming Renewals, Upgrades from ARRL and W5YI are compiled through the week and on Tuesday only they are programed into the computer. Then they are check to make sure they are correct with information sent in from the form you sent in. Upon completion they are mailed out daily.

New changes in testing procedure

If you hold a license and Upgrade at a test session you will receive a certificate of upgrade, then if you should take an additional upgrade before you receiving your new license in the mail, you will need to have a copy of the certificate of your upgrade. The VE at the test session will sent in your information to the ARRL, VEC Center. Then when you receive your license from the FCC from the previous up-grade, you will have to take and make a copy of that license and send it to the ARRL, VEC DEPT., as they will not process your latest upgrade until they receive it.

If anyone has any additional information please let me know and I will see that it gets published.

BOB W88WVF

Repeater update news

Work is still going on as to completion of our new satellite that will be going up at Selfridge. Do to the bad receiver in the previous unit we had to obtain an additional unit which had to be put together and set up. As you all know this work is all handled by our voluntary technical staff which have also had a very busy summer doing a few family projects. So please be patient and by this fall we will have everything running. Our new DVR Digital voice recorder, As a lot of you have found out in the past their has been a lot of access problems, which are also in the correction state, we had a problem with the unit being to narrow on signal reception and we are patiently waiting on a new upgrade to be sent to us which they say will cure the problem. We also have a problem with memory back up as to when ever we lost power to the repeater site the DVR would dump its memory and leave things a mess. We have aquired a micro-second gel type battery back up switching system and now are in the process of waiting on a delivery of the battery for the system. at which time the new unit will be installed. Again fellow club members please bare with us as all these, what everyone calls little problems do add up and we your technical staff are trying to do everything to move things along quickly as possible and boy we have all had a lot of family projects this summer. Hope you have all had an enjoyable summer. Your Technical Staff



FIELD FORUM

VOLUME 3

NUMBER 3

JULY 1987

Field Forum Special Report: Psyched for SET October 17-18, 1987

The ARRL Simulated Emergency Test (SET) is a nationwide exercise in emergency communications. The SET weekend gives you the opportunity to focus on the emergency-communications capability within your community while interacting with the National Traffic System. All this will take place on the weekend of October 17-18, 1987. SET guidelines and scoring format are reviewed here to help you get the most out of your participation.

The main purposes of SET are:

1. To find out the strengths and weaknesses of the Amateur Radio Emergency Service (ARES), National Traffic System (NTS), Radio Amateur Civil Emergency Service (RACES) and other groups in providing emergency communications.
2. To provide a public demonstration—to served agencies such as Red Cross, Civil Preparedness, Salvation Army, etc., and through the news media—of the value to the public that Amateur Radio provides, particularly in time of need.

3. To help radio amateurs gain experience in communications using standard procedures and a variety of modes under simulated-emergency conditions.

The scoring format reflects these broad objectives and encourages greater use of digital modes for handling high-volume traffic and point-to-point Welfare reports out of the affected simulated-disaster area. Participants will find SET an opportunity to strengthen the VHF-HF link at the local level, thereby ensuring the ARES and NTS are working in concert. Also, this SET will give all levels of NTS the chance to handle exercise-related traffic. The guidelines also recognize tactical traffic on behalf of served agencies.

Test messages should carry the word "TEST" before the precedence; e.g., Test Priority on phone and TEST P on CW. The text

(continued on page 6)



Field Forum Psyched for SET (continued from page 1)

of such messages should also begin with the words, "TEST MESSAGE." However, the word "TEST" is not used in conjunction with Routine messages. Such messages are routine whether specifically for SET or not.

Although October 17-18 is the official weekend, ARES units and other groups are free to conduct their SETs anytime between September 1 and November 30 if an alternative date is preferred. The activity period should not exceed 48 hours. The deadline for receipt of all reports is January 29, 1988. A complete array of reporting forms will be sent to all affected appointees shortly. Send one set of your completed forms to ARRL HQ, 225 Main Street, Newington, CT 06111.

ECs: Scoring Guidelines

- a. 2 points for each licensed amateur in the local area who participated in the local SET.
- b. 1 point for each formal radiogram a participant originates for or delivers to a local served agency, such as Red Cross, Civil Preparedness, Salvation Army, etc.
- c. 20 points for conducting "tactical" communications (point-to-point administrative and non-formal communications on behalf of served agencies) if the duration of the tactical communications was 1 hour or more; score 10 points for tactical traffic lasting between 1/2 hour and 1 hour; and score 5 points for less than 1/2 hour.
- d. 2 points for each mobile unit, emergency-powered portable rig or emergency-powered fixed station participating in the local SET. A station may be counted more than once (e.g., participates in the test as mobile and also as a fixed station on emergency power).
- e. 10 points for each emergency-powered repeater used during SET activities. List repeater call signs.
- f. 10 points if dual ARES/RACES membership is actively encouraged in your area or if your ARES group has achieved dual ARES/RACES membership.
- g. 10 points if your ARES group maintained liaison with a National Traffic System (NTS) section or local net. List call signs of the amateurs performing the liaison function.
- h. 10 points if one or more digital modes were used during the SET. List modes.
- i. 5 points for each served agency for whom communications were handled. List agency names.
- j. 10 points for each different community contacted. This is for contacting an agency in your community (and/or an adjacent community not having an EC). Ten points per community are allowed, and list the communities. Community awareness of Amateur Radio is so important that if NO community contact is made, charge minus 10 points in this category.
- k. 10 points for one or more press releases concerning the local SET. Only 10 points can be earned regardless of the number of releases submitted. Attach a copy of your press release or newspaper article to the report.

Net Managers: Scoring Guidelines

- a. 1 point for each message handled by the net on any mode during SET directed sessions. This includes only formal messages in standard ARRL form, and only messages handled at the direction of the NCS.
- b. 1 point for each message handled on a digital mode (Baudot, AMTOR, ASCII, Packet) by the net during SET directed sessions.
- c. 1 point for each message originated or delivered by net participants on VHF nets only.
- d. 2 points for each different station that participated in the SET activities as part of the net.
- e. 2 points for each different station that reported into any net session on emergency power. This category and (d) above are not mutually exclusive, i.e., the same station may be counted in both categories, but only once in each category.
- f. 5 points for each different net-control station (NCS) in action during the SET.
- g. 5 points for each different liaison station dispatched to a higher-level NTS net performing either a transmit or receive function.

Digital Ranking Percentage: This is a percentage of traffic handled via digital modes. Your net's digital percentage is found by dividing category (b), number of digital messages, by category (a), total number of messages then multiplying by 100 to arrive at the percentage.

For a complete SET net report, instruct your net controls to report the following information to you as soon as possible after their net session: (1) the call of the NCS, (2) the calls of all stations who perform liaison to higher-level NTS, (3) the number of message handlings, broken down into precedences if more than one type, (4) call signs of each station who checked in during the session, (5) the number of stations reporting in using non-commercial power, and (6) the number of messages handled on digital modes.

ARES**Pre-SET Planning**

1. Sign up all available amateurs in the area under your jurisdiction and work them into your SET plans.
2. Call a meeting of all ARES members and prospective members to briefly outline (no details!) SET activities, and give general instructions. Do not divulge the exact time or nature of the test to them at this time. This should come as a surprise to them. Take this opportunity to register new ARES members and get up-to-date information on others. Hold an on-the-air meeting if its not possible to meet in person.
3. Contact served agencies and explain the intent and overall purpose of the SET (which is to assist these organizations in a communications capacity while under the auspices of ARES, for example). Offer to send test messages to other branches of their agencies, and invite officials to your ARES meetings and SET operating sites.
4. Contact officials of any adjacent communities having no active amateurs and offer to provide representation in amateur networks for them as well.
5. Get some publicity in the local newspapers and radio/TV stations by preparing an announcement and/or inviting the press to observe your group's SET operation.
6. Arrange liaison with one or more NTS local/section nets (if you don't already have liaison) so you will have an outlet for all messages out of the local area.
7. Formulate your plans around a simulated disaster. Possible "plots" include: a flood, a serious fire, an ice storm, a missing person, a serious accident (automobile, bus, aircraft, etc.), a broken gas line, etc. Elaborate on the situation. Develop a scenario. Be realistic. You might want to have your SET in conjunction with some sort of local event.

During the SET

1. Announce the emergency situation. Activate the emergency net. Dispatch mobiles to served agencies. The test is now under way.
2. Have designated stations originate messages on behalf of served agencies. Test messages may be sent simulating requests for supplies. SIMULATED EMERGENCY MESSAGES (just like real emergency messages) SHOULD BE SIGNED BY AN AUTHORIZED OFFICIAL.
3. Emphasize tactical communications for served agencies, using emergency-powered repeaters and employing digital modes, as outlined previously.
4. As warranted by traffic loads, assign liaison stations to receive traffic on the local net and relay to your section net. You should also be sure that there is a representative on each session of the section net to receive traffic going to the local area.
5. Operate at least one session (or substantial segment of a session) of the local net on emergency-only basis. Or, if a repeater is on emergency power, allow only emergency-powered stations to operate through the repeater for a certain time period.

After the SET

An important post-SET activity is a critique session to discuss the test results. All ARES (and RACES) members should be invited to the meeting to review good points and weaknesses apparent in the drill. Emphasize ways to improve procedures, techniques, and coordination with all groups involved. Report your group's effort using the appropriate enclosed forms and include any photos, clippings and other items of interest.

NTS

The main function of the National Traffic System in an emergency situation is to tie together all of the various local activities and to provide a means by which all traffic destined outside of a local area, section or region can be systematically relayed to the addressee.

Normal NTS routing should be followed with very few exceptions. A valid exception is the handling of emergency traffic which should be routed as rapidly and efficiently as possible, bypassing various levels of nets when delivery can be expedited. Another exception is when one station is loaded down with traffic for one region or section. At the discretion of the NCS, the station may be directed to bypass a normal channel and go directly to a lower (or higher) echelon net.

The interface between NTS and ARES lies in the liaison function between local nets and other NTS nets, particularly at the section level. Responsibility for representation of the local network on the section net lies with the local net manager who may or may not be the EC. Although we usually think of ARES members being the representatives in section nets, it is equally valid to expect NTS personnel to act as liaison to local nets.

At least one net session or substantial segment of a session should be conducted on emergency power. Plan a surprise session or two. Advise the NCS just before net time. If NCS is unable to operate on emergency power, then someone else must be net control. Only

stations operating on emergency power may report in during this time.

Don't Forget Packet!

Packet radio has become a formidable weapon in the traffic handler's and emergency communicator's arsenal in recent times. Don't forget to include in your SET planning communications exercises the use of packet bulletin board systems. You'll find that it will revolutionize your emergency communications response posture. And please make a special effort to inform HQ in your report of instances where packet was found particularly useful. We'll compile your input for a special packet radio report to be included with the QST SET results article next year. Thanks!

Summary

One of the first steps on the way to a successful SET is to try to get as many people involved as possible. In a real emergency, we find amateurs with all sorts of varied interests coming out of the woodwork. Let's get them involved in SET so they will know more about how emergency communications should be handled. Promote SET on nets and repeaters. Many of those offer to help will be inexperienced in public-service activities. It's up to you to explain what's going on to them, and provide them with a useful role. They may like it so much that they become a permanent fixture in your ARES or NTS group.

YOUR ADVERTISING

COULD BE HERE

IN THIS USECA EXPRESS

RESERVED SPACE

On April 27, the following ARRL bulletin was released from W1AW to all radio amateurs:

USECA EXPRESS, AUGI

"On the occasion of the 1987 National Volunteer Week, April 26 through May 2, the members of the ARRL Volunteer Resources Committee and the rest of the ARRL official family and staff offer their heartfelt thanks to the thousands of League Volunteers who are the heart and soul of the American Radio Relay League. From the thousands of participants in the ARRL Field Organization to ARRL Instructors, clubs, Volunteer Examiners, and the many others who make our service vital, we want each and every volunteer who gives his time and effort for the benefit of his community and fellow hams to know that his sacrifice is truly appreciated. We are privileged to serve with you and look forward to yet another tremendous year of service and fellowship.
Thanks and 73."

Minnesota Legislature Looks At 2-Meter Rigs

Amateur radio is becoming an increasingly political hobby, as evidenced by the recent flurry of activity in the Minnesota Legislature regarding a proposed bill to legalize amateur use of 2-meter radios in their automobiles with built-in emergency service coverage. Almost every new model 2-meter radio to reach our shores from Japan in the past six months has included wideband receive coverage of 138-174MHz. Many emergency service frequencies fall within this range.

Since 1937 there has been a state law prohibiting anyone other than emergency service personnel from having a radio in their vehicle capable of receiving emergency service transmissions. This dates back to the days when police calls could be tuned in between 1700-1750 kilocycles on many standard AM broadcast band car radios.

The radio manufacturers have included wide band receive coverage in virtually all of the new model 2-meter radios. One justification for this is that many amateurs involved in SKYWARN programs across the country have requested 162.40-162.55 coverage capability. Manufacturers simply found it easier to include all frequency coverage between 144 and 162.55 than to patch in the weather frequency range only. Since most states do not have laws similar to Minnesota, this has not been a problem for amateurs except in a very small number of states.

If corrective legislation is not passed, it will be illegal to have any one of the new rigs in your automobile, even if you are a licensed amateur using the radio only for amateur radio purposes. If you are stopped by an officer and it is discovered your radio is capable of receiving emergency communications, you are subject to a citation and fine.

A partial list of the radios which have wide band receivers includes the Icom 28A/H mobile, Icom 02AT handheld, Icom IC-u2AT handheld, Icom IC-275 all-mode, Azden PCS-5000 mobile, Yaesu FT-23R handheld, Kenwood TM-221A mobile, and Kenwood TH-215A handheld. Several other models are capable of emergency service coverage as well with modification.

Doug Myers, K8PE, the mayor of the City of Carver, MN, asked Senator Earl W. Renneke and Representative K. J. McDonald to initiate a bill which would exempt amateur radio operators from the 1937 law. They engaged the services of Representative Bob Milbert, KF0P, to help with committee negotiations. Doug Myers and Nick Modders, KA0KLV, worked with both Senate and House Judiciary Committees to work out compromise legislation which would free amateurs from the fear of prosecution for having certain 2-meter amateur radios in their cars.

Amateurs from all over the state have been encouraged to write letters to Senate and House members expressing their concern for the issue. House and Senate mailing lists and database files have been posted on the TCRC Amateur Radio Library BBS so amateurs can download them for sending letters to their state representatives and senators about the issue. Nick Modders has kept the amateur

community informed almost daily of the progress by telephone and packet radio BBS messages.

At this time, it appears that a compromise may have been reached which will remove the fears of having the "wrong" rig in your car. The Senate Judiciary Committee unanimously voted in favor of the amateur radio position in SF 611. The House Judiciary Committee adopted HF 1420A with several amendments. When the bill is voted by both the House and Senate and signed into law by the Governor, amateurs will be able to carry rigs capable of receiving emergency communications legally provided you comply with the following:

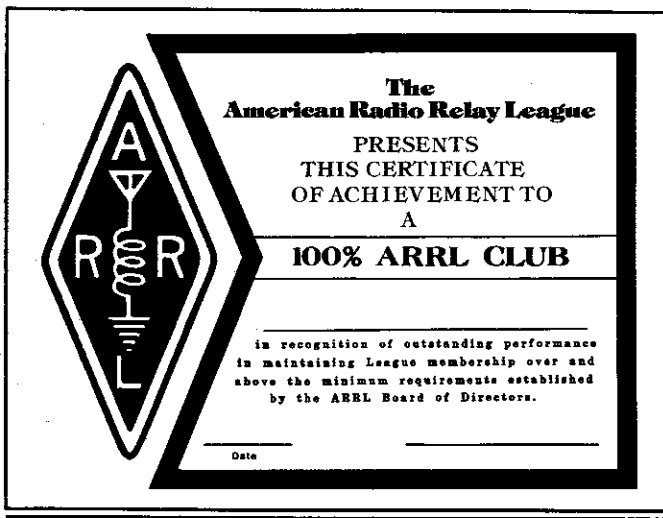
1. You MUST carry your amateur license with you while operating your radio and present it to a police officer if he asks you for it.
2. If you are a convicted felon, you must wait 10 years after the expiration of your sentence to be able to use a radio capable of receiving emergency frequencies.
3. When the radio is used in a motor vehicle it must be under direct control of a licensed amateur. This means your unlicensed family members cannot operate the radio if you are not present.

Thanks to the outstanding efforts of Doug Myers, K8PE, Nick Modders, KA0KLV, and hundreds of amateurs who took the time to write to key legislators, and the understanding members of both houses in our state legislature who recognize the valuable contributions to public service made by amateurs, we will no longer be burdened with unnecessary concern over an old 1937 law that has been made obsolete by new wideband receiver technology. (Tnx The Repeater, newsletter of the Twin Cities Repeater Club, Inc.)

ARRL 100% Clubs

At the May 23, 1987 Roanoke Division League Planning Meeting in Salem, Virginia, a clarification on the criteria for being named an ARRL 100% Club was requested. For a club to become and remain actively affiliated with the ARRL, at least 51% of its *Voting Members* must also be ARRL members. To become an "ARRL 100% Club," however, and be awarded the annual 100% Club certificate, a club must be actively affiliated and 100% of its *total membership* must also be ARRL members. In other words, on the club annual report form, the "Total Club Membership" entry must equal the "Total ARRL Members" entry. Your club's request to become an "ARRL 100% Club" cannot be processed without an accompanying club membership roster.

What if the percentage of ARRL members drops below 100% during the year? The determination of which clubs qualify as 100% Clubs is made at the time a club's annual report form is submitted. We expect ARRL membership to drop temporarily below 100% during the year as a result of healthy club growth and effective new-ham recruitment campaigns. So long as all of your club's members are ARRL members (Family Members included!) again when the annual report form is filed, your club will retain its ARRL 100% Club status.



NOVICE RANKS EXPAND SHARPLY

We have just received the FCC licensing statistics for the month of May 1987. You are all aware that effective March 21, 1987, newcomers to the Amateur Radio Service are no longer restricted to just Morse Code operation. Thanks for Novice Enhancement, beginners can now operate in the voice mode in the 28MHz, 220MHz and 1270MHz bands.

The information that the Commission has released clearly shows that there is indeed much interest among newcomers in a voice class ham ticket. The government operates on a fiscal year that starts October 1st. Table 1 shows the number of new FCC Form 610 applications received by month for the last three years. Table 2 indicates the total number of Form 610's that the FCC processed through their licensing facility in Gettysburg, Pa. during the month of May for the last six years.

As you can see, the number of applications seeking to enter ham radio has skyrocketed to 10,314 for the 60 day period ending May 31, 1987. By comparison, this figure was 2418 for the same period in 1985...4893 in 1986. Table 2 shows that the FCC processed a record number of applications this past May. More important, the current downtrend in Form 610 applications has been dramatically reversed! Ninety-three percent (6567) of new applicant Form 610 applications processed during may 1987 entered Amateur Radio at the Novice level.

The only conclusion you can come to is that (1) the public wants to communicate with one another and (2) the FCC's Novice Enhancement proceeding is doing what was intended ...that being to interest newcomers in pursuing the ham radio hobby.

Ten years from now we should have a fine new crop of electronic engineers ...engineers that were influenced toward their profession by initial interest in Amateur Radio. Owen Garriott W5LFL, the first amateur in space, acknowledges that he pursued electronics after first being introduced to Amateur Radio. We might even regain the supremacy in this area lost to off-shore nations.

TABLE 1

APPLICATIONS FOR NEW AMATEUR LICENSE RECEIVED BY MONTH BY FCC
(Source: FCC, Gettysburg, Pennsylvania)

FISCAL YEAR:	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	ANNUAL Total
1984-5	992	1,310	1,597	1,380	1,278	2,051	2,100	2,200	1,218	1,479	1,335	908	17,848
1985-6	1,413	1,074	2,579	1,501	1,889	1,676	2,826	1,017	2,067	2,899	1,406	1,619	21,956
1986-7	929	1,465	1,862	2,299	1,978	934	3,249	<u>7,065</u> *					* 19,781

(* Through May 1987)

TABLE 2

TOTAL APPLICATIONS PROCESSED BY FCC DURING APRIL/MAY BY YEAR
includes all new, modified and renewed Form 610 applications.
(Source: FCC, Gettysburg, Pennsylvania)

	1982	1983	1984	1985	1986	1987
April	11,257	16,207	15,037	10,409	13,567	15,230
May	15,537	17,050	12,102	12,090	6,579	19,249
	-----	-----	-----	-----	-----	-----
	26,794	33,257	27,139	22,499	20,146	34,479
Percentage Increase:	+24.1%		-18.4%	-17.1%	-10.55%	<u>+71.1%</u>

MARKET PLACE

WILSON SYSTEM 36, with 40 Mtr. add-on.....\$100.00
 JOHN, N8BWG.....773-6943

MARKET PLACE ads are a one-issue item. Your ad must be re-submitted to be continued in the next express printing. All members are encouraged to use the MARKET PLACE for your HAM related buy, sell, or want-ads.

+++++

WINNER-60/40

The winning ticket, no.2899,
 was held by KEN HAMILTON, sold by Shirley.

WDBWE. Here's the statistics:

TICKET SALES.....	\$56.00
WINNER'S TAKE.....	\$33.60
CLUB PORTION.....	\$22.40

I understand that KEN immediately bought a whole book of tickets! (hmm! must be courting LADY LUCK!)

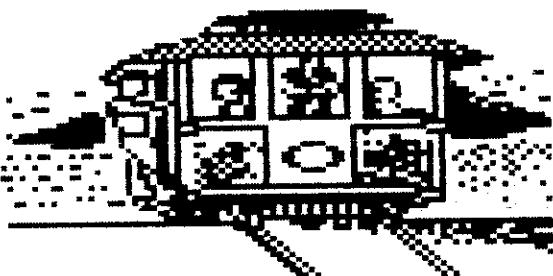
MONTHLY SCHEDULE FOR U.S.E.C.A. APRC SEPTEMBER

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1 U.S.E.C.A. NET 147.180 + 600	2	3	4 U.S.E.C.A. HOOT OWL NET 12: MIDNITE 147.180 + 600	5
6 INTERNATIONAL NET 1:PM 147.180 + 600	7 ROMEO PEACH FESTIBLE	8 U.S.E.C.A. MEETING FAITH LUTHERAN CHURCH SHELBY ROAD	9	10	11 U.S.E.C.A. HOOT OWL NET 12: MIDNITE 147.180 + 600	12 ANTENNA PARTY W4AV ANGILO'S TALK-IN 147.180 VHF-UHF CONTEST
13 INTERNATIONAL NET 1:PM 147.180 + 600	14	15 U.S.E.C.A. NET 147.180 + 600	16	17	18 U.S.E.C.A. HOOT OWL NET 12: MIDNITE 147.180 + 600	19 SPECIAL EVENT CALL K8JP S.E. MICHIGANS DX CLUB COMMEMORATING THE VISIT OF POPE JOHN PAUL II 0001Z to 2400Z 10 to 80 METERS PHONE + CW GRAND RAPIDS SWAP
GRAND PARENTS DAY UHF VHF Contest						
20 INTERNATIONAL NET 1:PM 147.180 + 600	21	22 U.S.E.C.A. NET 147.180 + 600	23	24	25 U.S.E.C.A. HOOT OWL NET 12: MIDNITE 147.180 + 600	26
LCARC SWAP				ROSH HANSHAMAI		
27 INTERNATIONAL NET 1 PM 147.180 + 600	28	29 U.S.E.C.A. NET 147.180 + 600	30			
HAPPY BIRTHDAY TO ALL		REMARKS TESTING INFORMATION SEPT. 19 HENERY FORD COLLEGE DEARBORN CONTACT: MOTOR CITY RADIO CLUB P.O. BOX 337 WYANDOTTE MI. 48192 676-6248				

IN MEMORIAM

WORDS OF SYMPATHY HELP ONLY THE LIVING, NOT THE DEAD. BUT OUR COLLECTIVE THOUGHTS AND PRAYERS, TRANSCENDING ALL THAT IS MATERIAL, CAN HAVE GREAT MEANING FOR THE SOULS OF THE DEPARTED. LET US ALL THEREFORE, REMEMBER THE 156 UNFORTUNATE SOULS, DEPARTED FROM THE LIVING, ON THE ILL-FATED NORTHWEST FLIGHT 255; AND HOPE THAT OUR WORDS OF SYMPATHY MAY ALSO HAVE SOME COMFORTING MEANING FOR THE LIVING RELATIVES AND FRIENDS.

MAY THEY REST IN PEACE.



THE CABOOSE

BY... **K8CFY**

The EXPRESS has done some pretty hard chugging here lately, and this old CABOOSE has been sidetracked and nearly completely de-railed a few times; but I think she will limp along & chug on up & over the hill anyway. It's a wonder that anyone can function well with all the heat wave we have had. I'm sure many of you were able to enjoy some vacation anyway. Maybe you even got lucky like Chuck (N8FNZ) who went to a cooler clime, even though it was "sunny Cal". Some of us too, were able to work Chuck on 20 mtrs, as he operated from the beautiful radio room aboard the QUEEN MARY, at LONG BEACH, Ca. Maybe you will be able to see his video tapes of the whole operation in the near future.

ANGELO, WP4AV returned to Puerto Rico for his vacation, but he somehow must have taken the 'DX' propagation with him as all attempts at contacting him on 20 or 15 mtrs were without success.

IT PAYS TO ADVERTISE DEPT:
Many new tech's etc., are finding their way to 2mtrs and onto the repeaters. As a result our ranks are growing and we wish to extend a most hearty welcome to any new members, & an open invitation to all the 'potential' new members to join our most friendly repeater club. **BRAG UP YOUR CLUB--INVITE YOUR NEW CONTACT'S.** I have personally done so, and I have heard some others on the rptr doing likewise. But don't just limit yourself to one frequency. Many of you do use other rptrs -- so BRAG a little once in a while about ours and our friendly USECA club. **IT PAYS!**

(Just look at how well the HOOPER'S NET has grown.)

* CONGRATULATIONS: *
* KESLE - John > (N8HTD) *
* KESLI - Hank > (K8UZO) *
* N8WM - AL > (WASCOR) *
* N8IFA - BOB *
* N8HZZ - RICH *

URGENT REMINDER !!
ALL UPGRADERS - &/OR THOSE WHO CHANGE THEIR CALL:
PLEASE CONTACT SHIRLEY (N8SIWE)
so that she can maintain an up-to-date roster.

ENTERTAINMENT

The Annual Picnic

was held at Dodge Park, Sunday, Aug 9, and in spite of the weatherman, a well attended and enjoyable affair was held amongst members, family & friends who socialized with 'that voice on the rptr', in person. What better way to spend a nice Sunday afternoon and become more a part of YOUR club. **SPECIAL THANKS** go to Don-KD8UJ & those that helped him with the preparations; also to JOHN-N8FN0, AMY-K8ZAI, & THE FOX for their excellent cooking duties.

PARTY!

NOSTALGIA DEPT:
Remember Fibber McGee & Molly?, Charlie McCarthy, Amos 'N' Andy, Bob & Ray, & many other RADIO characters of yesterday? If they are just a vague memory to you, or if you never heard of them, you can still enjoy listening to the good entertainment they offer. I have been having a ball with them lately. Just check them out at the Macomb County Library, and play them on your cassette machine at home. It's good to get away from the 'boob tube' syndrome! Learn to "un-lax".



If you've ever had any doubts that perseverance can overcome barriers or that success can follow adversity; consider the following biographical sketch of a famous politician:

- 1832 - lost job; defeated for legislature
- 1833 - failed in private business
- 1834 - elected to legislature
- 1835 - sweetheart dies
- 1836 - nervous breakdown
- 1836 - defeated for house speaker
- 1843 - defeated: nomination to Congress
- 1846 - elected to Congress
- 1848 - lost renomination
- 1849 - ran for land officer and lost
- 1854 - defeated for Senate
- 1856 - defeated for nomination for Vice-president
- 1858 - defeated for Senate again
- 1860 - elected President of the United States: --> ABRAHAM LINCOLN

WANTED!

Here is the recipe for the Lemon Cake served at the U.S.E.C.A. Picnic submitted by Evelyn Palson XYL of WD8MFN

ADVERTISING

for this space in the express.

Sales-prepared:

All USECA members

LEMON JELLO CAKE

- 1 pkg. lemon or yellow cake mix
- 1 3-oz. pkg. lemon gelatin
- 4 eggs
- 1/2 cup Wesson oil
- 3/4 cup water

Combine all ingredients and beat about 5 minutes. Pour into greased and floured 9"x13" pan. Bake in 350° oven about 35 minutes. Cool on rack about 15 minutes. Prick holes all over cake with fork. While cake is baking measure out 2 cups powdered sugar in a 2 cup measuring cup. Add dash of salt and 1/3 cup lemon juice. Let dissolve awhile, then mix well. Pour into holes all over cake, one tablespoon at a time. Enjoy.

USECA EXPRESS

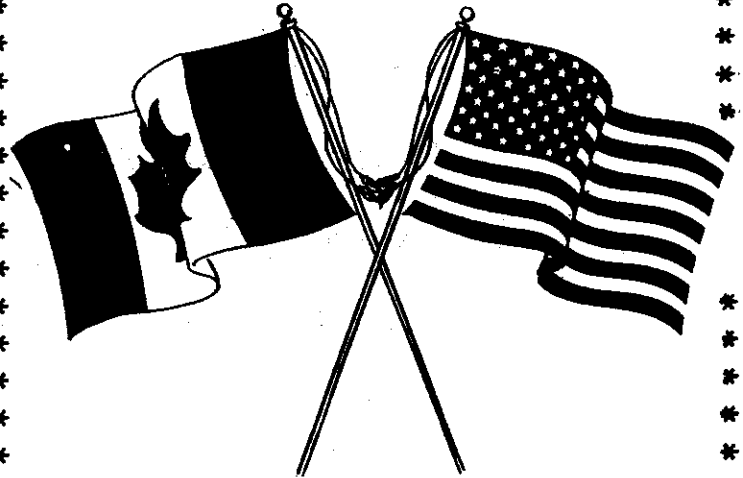
U S E C A E X P R E S S

THANK YOU

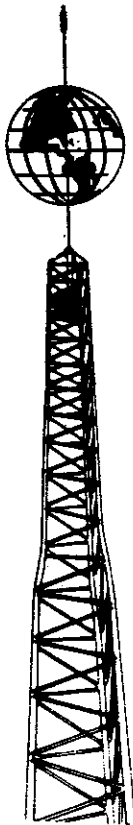
For your contributions to this issue:

WD8IWE; N8BWG; NU8F; WD8EKY; KD8YJ; WB8WYF; KA8TOY; W8FBH;
the ARRL FORUM; the GROUNDWAVES & anyone else I may have forgotten.

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THRU USECA**



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