

O R C

NEWS

AA9W EDITOR

MARCH 1981

Excellency sez:

I would like to take this opportunity to comment on the survey results in QST for March. As I don't recall filling out any questionnaires going to Florida, I guess I'm safe and can write without fear of contradiction. Actually, I agree with a large portion of the survey, and it did serve to reduce some anxious moments, particularly the statement referring to a profile of an 'average' amateur in that "He probably does not attend local club meetings regularly." I think it's safe to assume from that statement that it is the exceptional hams that do attend regularly - but that is obvious to those who make the meetings.

Thanks to Port Washington Police for last months presentation on Emergency Communications and thanks to Mr. Davis in advance for his presentation on Microprocessors. A frequent question asked by 'guest' speakers is "how big is your club?" and usually stated flat ly enough that I can't detect if they are impressed or depressed. It seems we are blessed with lots of excuses as for why people don't make the meetings. Be assured that I have tried deodorants and breath mints, not to mention 'Scope' for my part to increase attendance.

Next month will be Severe Weather Spotting and Reporting techniques useful to all Club members and the community as well. Come and expand your horizons. The experience is courtesy of Don Johnson, Director of Emergency Government for Ozaukee County, via Jeff Klopp, WA9USA.

The Post Party will be upon us before the April meeting so PLEASE make it easy on those who serve and get your RSVP's in EARLY , there will be NO last minute adjustments - so consider yourself forewarned!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! Swapfest is forming up, if you are interested in being part of a great project, make yourself known to Barry Anderson WB9SFK , or his XYL Lorraine KA9HJR. Tickets are available on consignment. Help O.R.C., sparkle - add some of your own particular polish and elbow grease.

MORE →

The novice and advancement classes under the tutorage of Herb Roehner WA9UVK, Joe Bauer W9WQ and others seems to be greening up for an early spring crop of new licensees.

Are you interested in learning more about computers and hobby applications, there may be a class forming in the future, see WA9AWO or Stan Kaplan WB9RQR for details. Now it's time for your fabled lesson in 'Club Electronics'. O.R.C., from times ancient to present has taken many turns, not unlike a roller inductor in an antenna turner. If the current movements in the Club are matched to the memberships capacity, the load can be handled without too many sparks, and the club will radiate good and strong vibrations...draw your own moral. CU on the air. 73-Terry A. Berg WA9AWO

### MARCH-APRIL CALENDAR

- \* Novice Class-----In Progress
- \* FCC in Milwaukee-----March 26
- \* ELF Presentation-----March 28
- \* Post Everything Party-----April 4
- \* Madison Swapfest-----April 5

*Is your Home Computer lonely?  
Does it yearn for Female  
Communication?*

Have it call. **MAUDE**  
for HOME COMPUTER  
BULLETIN BOARD INFORMATION  
1-414-241-8364

### FOR COMPUTER FREAKS

This program will design your next YAGI antenna for you. The equation for element length is in line 50 and line 53 determines element spacing. The boom length is calculated in line 55.

```
10 REM YAGI ANTENNA DESIGN PROGRAM
20 INPUT"INPUT FREQUENCY IN MEGAHERTZ":F
30 PRINT:PRINT:PRINT"FOR",F
40 PRINT"ELEMENT NUMBER", "LENGTH IN FEET"
50 A=466.667/F:D=A*.05-A:B=11.52*A/12:Z=A*.05+A
53 W=6*A:X=4.32:L=4.8*A
55 R=L+X+W
60 PRINT"1",D:PRINT"2",B:PRINT"3",A:PRINT"4",Z
100 INPUT"TYPE (E) TO CONTINUE";A$
110 PRINT:PRINT:PRINT
120 PRINT"-----ELEMENT SPACING-----"
130 PRINT"1-2",L/12:PRINT"2-3",X/12:PRINT"3-4",L/12
140 PRINT:PRINT:PRINT
150 PRINT"THE BOOM IS FEET LONG":R/12
155 END
```

## WOODPECKER IDENTIFIED

Federal Commissions Communicator Marvin Larpsnogg announced today that the source of the world wide radio interference known as the "woodpecker" had been traced to the Ozaukee County area. Larpsnogg stated that several local Amateurs were under suspicion but nothing could be proven as yet. "It is not a case of malicious interference but appears to be caused by a set of unusual coincidences." "The present theory being pursued", he said, "was that a ham repeater logic circuit under development had been inadvertently cross wired to an adjacent high power marine radio transmitter." "The marine transmitter was apparently being keyed by the logic with mixing products coupled to all resonant structural members of the marine transmitting tower." "With the structure made of many different lengths of conductors, all frequencies were being transmitted", he said. The "woodpecker" interference heard around the world, has disrupted communications, been a cause of concern for the health of US Embassy personnel in Moscow, and has been thought to be connected with the recent Mexico City earthquake.

"We zeroed in on the Ozaukee area", he said, "When our investigators found that the "woodpecker", which is heard most weekends, did not occur when the Ozaukee Club members were busy conducting weekly net operations." "Once we get our truck repaired", he said, "We will be able to drive right up there to that tower and see what is really going on."

AA9W



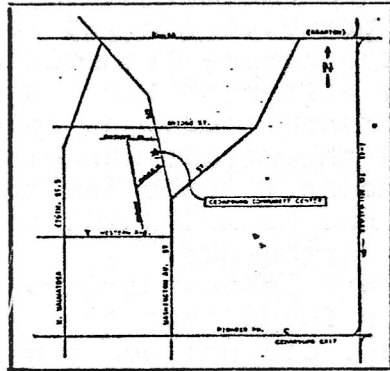
THIRD ANNUAL  
**SWAPFEST**

SATURDAY, MAY 9, 1981  
 - 8:00 A. M. -

CEDARBURG COMMUNITY CENTER GYM  
 W63 N 641 WASHINGTON AVE.  
 CEDARBURG WISCONSIN

**PRIZES — FOOD — REFRESHMENTS**  
**TALK—IN — 146.37/97 146.52**

- ★ FOOD AND REFRESHMENTS
- ★ ADMISSION: \$2.00 ADVANCE  
 \$3.00 AT THE DOOR
- ★ RESERVED TABLES: \$3.00 EACH, 6'  
 ALL TABLES SOLD OUT LAST YEAR  
 ORDER YOURS EARLY
- ★ DOORS OPEN AT 7:00 A.M. FOR TABLE  
 SET—UP — 8:00 A.M. FOR GENERAL  
 ADMISSION



SPONSORED BY THE OZAUKEE RADIO CLUB, INC.

PLEASE SEND THE FOLLOWING TICKETS:

\_\_\_\_\_ ADMISSION TICKETS AT \$2.00 EACH.  
 \_\_\_\_\_ TABLE RESERVATIONS AT \$3.00 EACH

NAME \_\_\_\_\_ CALL \_\_\_\_\_  
 STREET \_\_\_\_\_ (PHONE) ( ) \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

RETURN TO: OZAUKEE RADIO CLUB, P.O. BOX 13, PORT WASHINGTON, WI 53074  
 S.A.S.E. PLEASE



EMERGENCY! This word seems to spurn most Amateurs into action. Our repeater - your repeater - and its autopatch facilities can be used very effectively for a variety of emergency communication situations. In the future we will have a special 911 autopatch access feature that will automatically dial up a public safety agency, probably the Ozaukee County Sheriff's Office. Until then, operators should have phone numbers of various agencies at their fingertips. Of course, in a life-or-death emergency, 911 can be dialed after accessing the patch. The Port Washington Police would then take care of routing your call to the proper facility.

What types of incidents should we report via autopatch? Typical examples are traffic accidents, vehicles disabled in traffic, medical emergencies where a phone is not handy, fires, criminal activities witnessed by the caller, etc. In short, anything requiring immediate response and which cannot be reported just as easily by other means qualify.

What information does the emergency dispatcher need? 1) Identify the call as being via Amateur Radio. If you are at the scene, make that known. Identify yourself by callsign and name. 2) Report the nature of the incident. 3) Give the exact location of the incident using highway numbers, street name and address, major landmark, etc. If on a major highway, exit numbers, mile marker numbers, street names from marked overpasses, and the direction of travel are very helpful in determining your location. 4) Report the extent of any injuries if known. Don't guess. If you don't know, say just that. Many accidents look worse than they really are. DON'T cause an ambulance to be sent needlessly. By doing so, you could cause risk to the ambulance personnel and could divert their unit away from a bona fide injury accident occurring elsewhere at the same time. Squads are generally only minutes away in an urban area. 5) Are victims trapped? 6) Describe vehicle(s) involved to the best of your ability. License numbers help identify a vehicle. 7) If a truck is involved in an accident, is it carrying dangerous cargo? 8) Is there fire, smoke, or a fuel spill at an accident scene? If so, fire department personnel will be dispatched. 9) If the report is of criminal activity, describe the suspect(s) to the best of your ability. Use caution in the area of criminal activity. Remember - uniformed personnel responding DO NOT KNOW WHO YOU ARE. Be an OBSERVER - let the uniformed officers act. 10) Above all, remain calm. Speak clearly and in ordinary language. Releasing the mike button frequently will let the dispatcher interrupt if necessary.

When using our autopatch, please remember to identify your call, the date, and time of day after accessing the patch, but before dialing a phone number. This is for our tape recorded logging of third party traffic. It would be appreciated if you identified with your call just before disconnecting also.

The Tuesday night Repeater Club nets seem to have caught on well. Join in at 2000Hrs each Tuesday. Anything (legal of course) goes - Club news, ham gear swap/buy/sell info, technical tips, the latest in model airplanery or computerdom, or just saying howdy to the group. We could use more volunteers for Net Control too. I have copies of the "preamble" script for those who would like them. See ya Tuesday!

# ELF

## Extremely Low Frequency Communications

THE UNITED STATES NAVY'S PROPOSED WORLDWIDE  
RADIO COMMUNICATIONS SYSTEM FOR SUBMARINES

WANT TO KNOW MORE ABOUT IT?

Hear

JAMES BARRON  
Field Project Manager  
ELF Operations  
GTE Sylvania  
Needham Heights, Massachusetts

ALL INTERESTED PERSONS ARE INVITED. RADIO AMATEURS AND THE  
GENERAL PUBLIC.

*the speaker is available to other radio clubs providing  
meetings can be scheduled just prior to or immediately  
following this March 28th program.*

WHERE: MILWAUKEE AREA TECHNICAL COLLEGE  
Technical Building Auditorium  
1101 North 6th Street, Milwaukee, Wisconsin

WHEN: SATURDAY, MARCH 28, 1981

TIME: 1:30 p.m. to 3:00 p.m.

PARKING: Street parking and public parking at MacArthur  
Square with entrance on North 7th St., between  
West State and West Wells Streets.

*sponsored by*  
THE MILWAUKEE RADIO AMATEURS' CLUB

*in cooperation with*  
MILWAUKEE AREA TECHNICAL COLLEGE  
(Industrial Division)

Talk-in on 146.31/91 and 146.37/97

**Free**

Q N U

The net has traffic for you. stand by.

TRAFFIC; The Business flow of a system of communication, as measured by the signals and messages transmitted. HAY, thats not a bad description of our nets. While they cannot be used for personal gain in a business sense, they are very businesslike. They are a system of communication. The definition is from Groliers dictionary. The principles are from the thousands of radio amateurs from coast to coast who form the ARRL National Traffic System.

Nets can be fun, if you let them. They are good sources of CW PRACTICE. They do serve a purpose. They are invaluable as a source of trained communicaters in event of disasters.

But you can't get good at this if you don't practice.... practice.... practice. Both on CW and "phone" the traffic nets provide training for operators of emergency health and welfare nets.

The nets that most of us are the most familiar with in our club; are the 75 meter net on Sundays at 1300 local time and the 2 meter repeater net on Tuesdays at 2100 hrs local. But even these nets Quite frequently are lacking in members who are willing to participate. And net Control Stations are exercised into taking the punishment.

I suspect that the latter is because of a lack of knowledge on how a net is run, and practice at doing any NCS operating.

How do you get this practice? The same way that you got your ticket. You sat down and learned CW and theory. You sit down and join a net and practice and read and learn how it's done.

One of the nets in the Wisconsin area that is a good source of this practice is The Wisconsin Novice Net. It meets each night at 1800 Hrs local time on or about 3720 Khz. The code speed is kept to about 5 or 7 1/2wpm so that a novice can easily understand the format and method. The main objective is to help new members become familiar with net operation. It's just a good way to get your feet (or keyer) wet. There are some realboners pulled every now and then, but not often. And if a mistake is made no one comes down on you. Probably won't know the differenc. But we try,. Net manager is Larry K9AUG and we could use more operators in this neck of the woods.

Another good net that I have checked into is the Kentucky Novice Traffic Net (KNTN). KNTN is somewhat faster the WNN, but is also somewhat better organized thanks to Bob KB4OZ. And just recently they have made an effort to slow down their NCS's. They also meet at 1800 local and are found about 3726 Khz.

Next month I'll try to cover some of the phone nets, and as I get into more nets and get more experience I'll try to get any pertinent information in this letter.

These nets need as much traffic as possible so that everyone can get some practice. So, even if you don't join you can help by originating messages.

These nets do have traffic for you if you will add a few hours to your ham operating log and join in on the fun.

BEST 73's  
de KA9GBE

If you have any questions that I can help you with-please ask.....

After a brief suspension of editorial effort, we have once more assembled what few thoughts we have on any subject and extracted some that pertain to that fringe of amateur radio known as RTTY. The columns written to date have mostly touched on generalizations and technical aspects. Let's talk about operating, and to be more specific, DX operation.

March, 1981 QST tells us that there are 187 operators with 318 countries confirmed, mixed phone and CW. January, 1981 RTTY Journal tells us that on December 15, 1980, DXCC Award No. 51 was awarded to DL1IJ. The top of the DX heap is occupied by ON4BX with 193/192. Top US amateur is number 2 W3KV with 188/184. The briefest analysis of these figures makes it quite obvious that RTTY DX is a different game than other modes. The game has the same basic rules though. Here are a few rules developed by someone who hasn't run more than thirty watts out for at least ten years.

#### RULE 1: Stay Out of the Crowd

Twenty meters could well be the most popular RTTY band. The RTTY portion is apt to be filled with big stateside signals exchanging art work or computer programs, or rag chewers who go on forever. Except for contests when everybody is listening, you are not going to do well on DX with low power on twenty. Ten is good when it is open, especially to Europe about 1500Z. In the early evening you might find a few Southeast Asians coming through. Fifteen produces a curious pattern. About 1700Z I have worked KH6 and I on successive QSO's. Always check the higher frequencies first even if you "know" they are not open.

#### RULE 2: Listen

Ever hear the old wheeze "If you can't hear 'em, you can't work 'em"? Tis true, tis true. Although to do a job, you have to hear them first. One can identify a RTTY DX signal without even printing it. The DX multi-skip flutter common to CW DX signals is also common to RTTY signals. The monitor scope might also show a more pronounced selective fade than usual. (Selective fade is an RTTY term used to describe different rates of QSB on the mark and space portions of a given signal. The rates of QSB will sometimes vary

substantially even though the two portions of the signal are separated only by 170 HZ.) If the incoming signal is on 50 Baud (67 words per minute) rather than 45 Baud (60 words per minute) it is a DX signal for sure. You can tell by ear, and how the printer acts. Another tip is a lack of CW ID after a transmission. W and VE are about the only countries that must use CW ID. If they don't, they are probably DX.

#### RULE 3: Make Noise

Once you have located your quarry, you must get its attention. This is hard to do without tape. The idea is to get the other guy's machine in sync on your signal to the exclusion of all others. This requires more than a poke or two at the keyboard. My preferred method is to send a line of RY's followed by a half line of his call and in turn followed by a full line of my call, all at full machine speed and if need be, several times. In any kind of pile up where the other station can hear me at all, this technique seems to produce the desired result. Experience has indicated that ties count for me when this method is used. I sometimes think that a loop of tape on the old tape distributor is the RTTY DX'ers best friend.

#### RULE 4: Read Rule 1. Again

The proof of any method is in how it works. All I can say is that the method described works reasonably well for me. After about one year of limited operating time with a start of near zero, the present score is 53/32 and I don't have a lot of the easy ones. 53/32 would put me 51st on the January 1981 RTTY Journal DXCC Honor Roll. True, many operators did not report so that standing is on the high side, especially since one knows there are at least 51 DXCC's out. What it does indicate is at least modest success.

Now there is this fellow, Andrei Giurgea, YO8AC. Late in 1980 he worked WAC in a total time span of five and one-half hours. I would like to sit down and have a chat with that fellow!

Ed WA9BMA



WA9AWO - Terry A. Berg, President called meeting to order @ 7:31PM. Introduced agenda and minutes published in O.R.C., Newsletter, to expedite meetings discussions to be held to 5 minutes.

WB9RQR - Stan Kaplan, MOTION to adopt Agenda.

WD9ISS - Harold Aagerup, SECOND // motion CARRIED on voice vote.

WA9AWO - Secretaries report accepted as produced in O.R.C., Newsletter.

WD9FQW - Mike Behlen, Treasurers report:  
+\$381.00 dues +\$14.00 swapfest +\$16.62 Kitty +\$27.21 Interest  
+\$438.83 Net INCOME for February  
-\$20.43 refreshments -\$315.00 Rptr. -\$32.00 Jacket -\$20.00 Post-  
\$538.57 Savings \$690.80 Cking, \$23.00 C.O.H. +\$51.40 cash<sup>age</sup> flow  
\$74.25 Patches \$150.00 Kuhlducks Net Worth \$1476.88 #1476.62

WA9JOB - Nels Harvey, MOTION to accept Treasurers report.

KA9CSC - Wally Scholz, SECOND // motion CARRIED on voice vote.

WB9SFK - Barry Anderson, Progress report on Swap Fest, that volunteers are needed, and a table shortage needs attention. Relayed requests from WB9PAS, Russ Schreiner regarding the Post Party preparations and asked for prompt returns on registrations and any ideas for 'Ladies major prize' and reminder for Grab Bags.

WB9RQR - Reported that the roster had been compiled on computer and would be ready for publication this month.

WD9GDG - Bill Hazard, Progress report on County Fair to date, fee for space is \$6.00/linear foot by 10' deep. Discussion followed concerning merits of such a participation and motion formed.

WD9GDG - MOTION: Allocate the sum of \$60.00 for expenses should the committee working on the County Fair project deem it necessary to reserve a space for O.R.C., and no other alternatives are developed.

WB9RQR - SECOND...DISCUSSION by W9BCK, KA9CSC, WA9JMS & WA9JOB etal. MOTION CARRIED on voice vote.

AA9W - Ed Rate, Vice President explained Newsletter format and criterion. Deadline is Wednesday before meeting date. Inquired if Club members were interested in a FOX HUNT, responce was underwhelming!

WA9USA - Jeff Klopp, reported the Governors Conference on Emergency Preparedness coming up on 03-12-81 in Madison. 75 Mtr SSB Check-in encouraged or could be relayed from 2 Mtrs.

WA9AWO - Relayed request from anonymous persons to audit treasuries.

WA9JOB - MOTION to Adjourn @ 8:30PM

PROGRAM - "LIFELINE" presented by Officers Esselmann & Hahar P.W.P.D.,

- I. Introduction
- II. Adoption of AGENDA ✓
- III. Secretary's report ✓
- IV. Treasurer's report ✓
- V. O L D B U S I N E S S
  - A) Swapfest (WB9SFK & Co.,)
  - B) POST Dinner *WA9AWO*
  - C) County Fair (WD9GDG) ✓
  - D) Governor's Conference ✓ (WA9USA) *Thursday WC9AAG*
  - E) Novice & Advancement Classes (WA9AWO) *W9WA Q Emtrc relay*
- VI. N E W B U S I N E S S *WA9AWO - WA9UVK 12 present*  
*G.H.S.*
  - A) Computer interest group (WB9RQR - WA9AWO)
  - B) O P E N T O F L O O R *Dues & restructuring*
- VII. A D J O U R N M E N T @ 8:15 PM
  - A) Refreshments courtesy W9DQS, Bob Williams
- VIII. P R O G R A M - Microprocessors by Prof. Davis

*see needs letter from Club No Fees. @ H.H.S.*

*\$13.00 Club 1/2 Rpt 7:50  
retires 1/2 price  
\$1.00 }  
10.00 }*

