

# St Clair Amateur Newsletter

January 2020

PO Box 94, Belleville, IL 62222

[www.scarc.net](http://www.scarc.net)

Club Repeaters: 147.120+ / 224.120- / 444.625+(pl 127.3) / 442.275+ (pl 127.3)

## Club Officers

President – Randy Bastian  
KC9MZ (618) 235-1444  
Cell (618) 973-6379  
[kc9mz@arrrl.net](mailto:kc9mz@arrrl.net)

Vice Pres – Michael Petz  
KA9HNT (618) 688-2050  
[ka9hnt@gmail.com](mailto:ka9hnt@gmail.com)

Secretary – Tip Klamburg  
N9MVX (618) 670-1502  
[n9mvx@yahoo.com](mailto:n9mvx@yahoo.com)

Treasurer - Bob Thurgood  
WA9TUG (618) 239-9847  
[wa9tug@arrrl.net](mailto:wa9tug@arrrl.net)

Sgt at Arms - Dan Campos  
KD9ADB (618) 236-1509  
[daniel.campos@charter.net](mailto:daniel.campos@charter.net)

Activity Mgr- Jim Morgan  
KD9BLA  
[highonharmony@gmail.com](mailto:highonharmony@gmail.com)

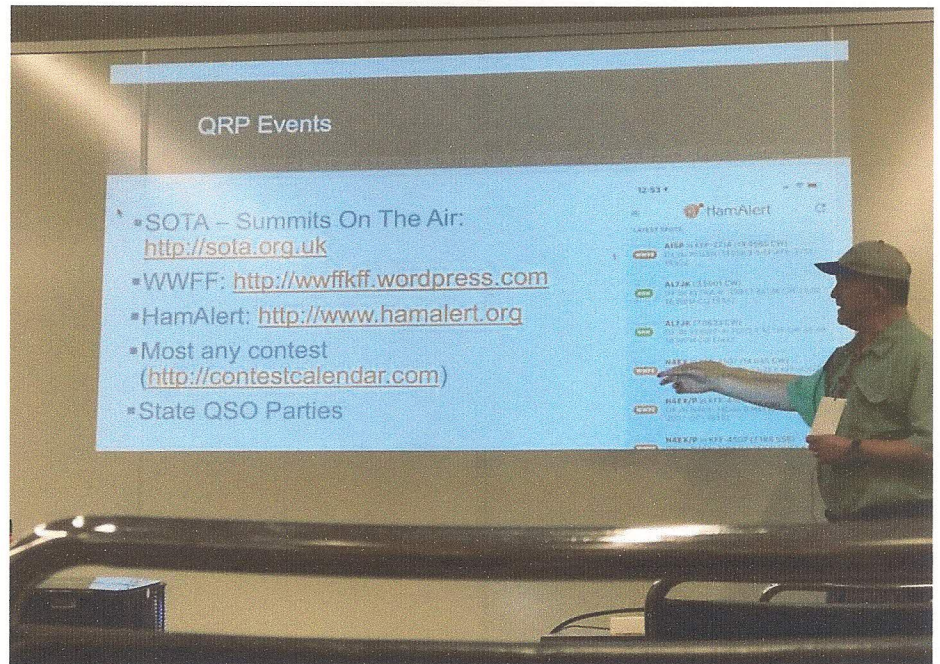
**VE Test Coordinator**  
Randy Bastian, KC9MZ

**Repeater Committee**  
Randy Bastian, KC9MZ  
Michael Petz, KA9HNT  
Gary Valentine, N8GIL - emeritus,  
John Sundstrom, WA0LIS -  
emeritus

**Emergency Comm Committee**  
Curtis Williams, W5DTR

ARES/RACES Directed Net is  
normally conducted by  
Gene Kramer, WA9TZL  
(Tuesdays following the Club "on-  
the-air" meeting.)

## 2020 Winterfest seems to be a success!



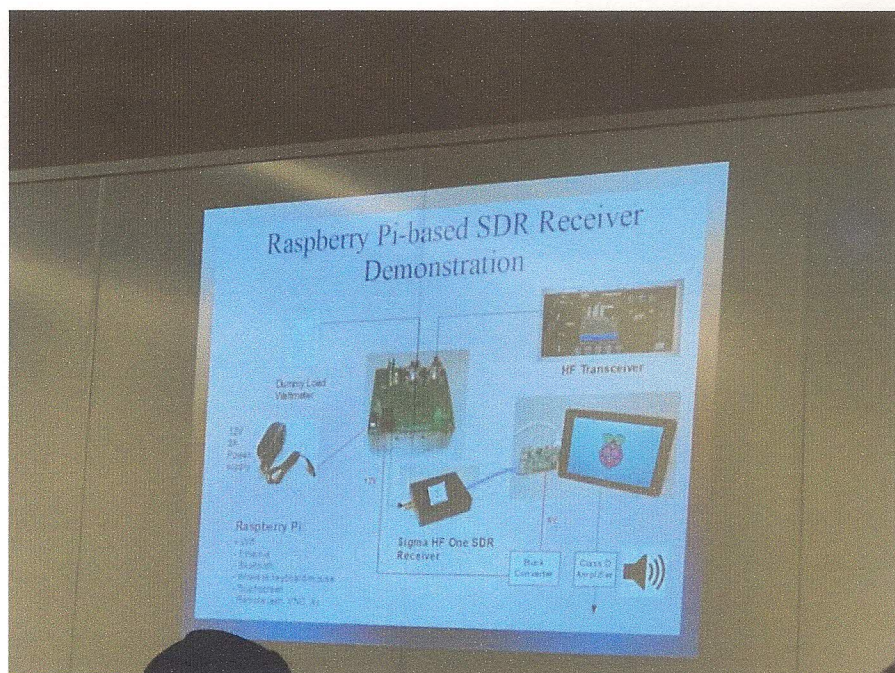
Jeff, N0MII, points out some QRP operating events at the QRP form. KC9MZ photo



One of our own AI, N9HKG, is manning his table.

KC9MZ photo





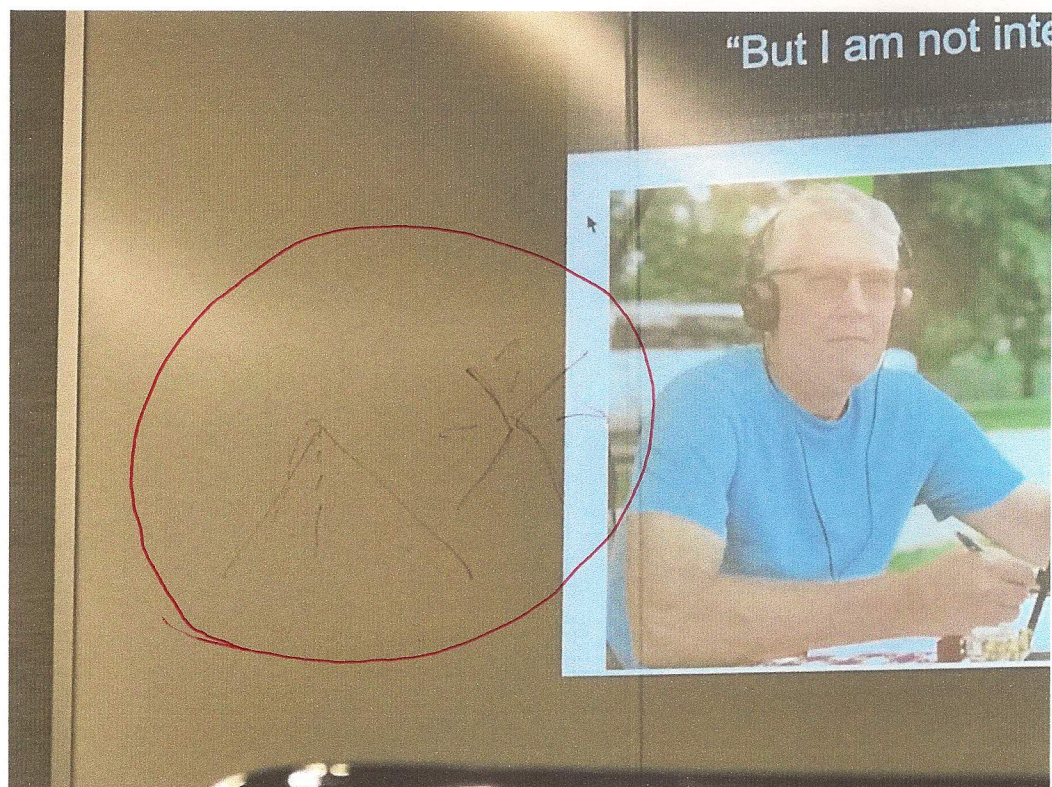
There was a presentation on SDR Receivers using Raspberry Pi single board computers by W9RAN. KC9MZ photo



Several groups attended the Kit Building class.

KC9MZ photo





Not all the information was in the slides. Jeff, N0MII, showed us a crossed dipole that he uses in his field QRP work. A relay at the cross is used to change the directivity.

KC9MZ photo

## For Sale

### Kenwood TS-450 and Astron RS-30 power supply.

This transceiver is very clean, original box, manuals. I've tested the output on each band and its 100 watts or so. Audio sounds good on station receiver. This rig does not have the auto tune unit.

The power supply has a broken rocker switch which selects volts or amps on the built in meter. It looks like the Kenwood was bought to replace a malfunctioning Ten-Tec and never used. The owner went into a Home, both \$450.

Veritas V-754 SWR and FS meter. This is one of those small SWR meters from the late 1970's, offered by so many brand names. Good condition, missing Field Strength antenna. \$20.

Call Randy, KC9MZ, 618-235-1444, or email [jlr.bastian@norcom2000.com](mailto:jlr.bastian@norcom2000.com) if interested.



## Operating Events and HAMFESTS:

National Weather Service Spotter Talk training class Feb 18<sup>th</sup>, 6:30 – 8:30 pm at Southwest Illinois College, 2500 Carlyle Ave, Belleville, IL, Main Complex (Building) Room 1060

Lewis and Clark Radio Club Hamfest, March 21<sup>st</sup>, in "The Commons" at Lewis and Clark Community College, 5800 Godfrey Road, Godfrey, Illinois, email: [hamfest@k9ham.org](mailto:hamfest@k9ham.org)

Sullivan Hamfest, Moultrie Amateur Radio Club, Sullivan, Illinois April 25<sup>th</sup>, [mark.infolist@gmail.com](mailto:mark.infolist@gmail.com)

St. Charles Amateur Radio Club Hamfest August 9<sup>th</sup>, O'Fallon, MO [www.wb0hsi.org/hamfest](http://www.wb0hsi.org/hamfest)

Winterfest, January 23<sup>rd</sup> 2021, Collinsville, <http://winterfest.slsr.org/> for tickets and info

CWops Test (CWT) Every Wednesday at 1300-1400Z, 1900-2000Z, and 0300-0400Z 28 to 45 kHz from the band edges

**Meeting Date, Time and Location:** This month's meeting will be on January 30<sup>th</sup> at the Belleville Fire House #4. The meeting starts at 8:00PM. Many start to gather at 7:30PM. We will have testing before the meeting at 7 o'clock. Hope to see you there....

**New Members:** New applications should be submitted to the Sgt. at Arms. Applications will be vetted by the Sgt. at Arms and will be brought forward for a vote at the next monthly meeting after being submitted. We look forward to meeting/greeting any new member because to grow our club, we must find people that love to talk (should not be too hard) and that would love to be on the radio. So putting the two together can make a dedicated enthusiast for HAM Radio. We welcome all new members and prospective members and thank them for their interest in Ham Radio.

Happy New Year everybody!

Here are some shorts:

Dues come due January 1<sup>st</sup>, please see Bob, WA9TUG.

January starts the process for election of club offices. If you would like to nominate someone or run for offices yourself, please let the Sergeant at Arms, Dan, KD9ADB know.

The Internet has it's way back machine and so do we at SCAN! I've included SCAN January 1980 in this paper - 40 years ago!

I've attached hamfest flyers for Lewis and Clark and Sullivan Hamfests. I've also attached a map of the SWIC Main Building.

Hope to see you at the meeting or on the air.

Remember to send anything you might have for SCAN to [kc9mz@arri.net](mailto:kc9mz@arri.net).

73 es gud dx,

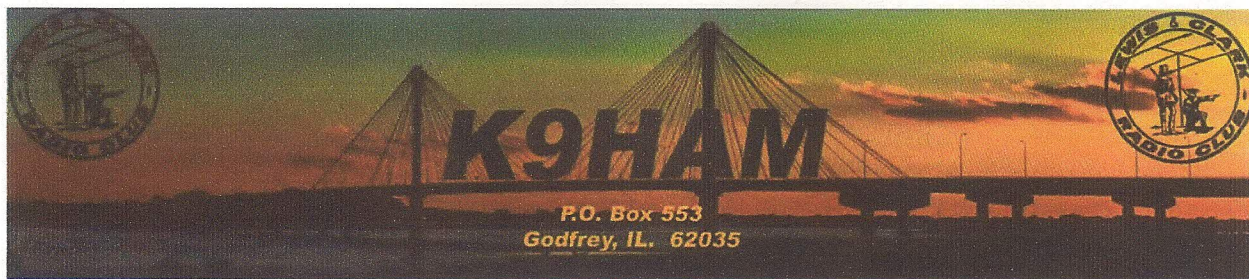
Randy, KC9MZ



Please patronize our supporters!







# **LEWIS & CLARK RADIO CLUB 2020 HAMFEST**

**SATURDAY – March 21 - 7 AM to NOON**

**In the Popular NEW LOCATION "The Commons"  
LEWIS & CLARK COMMUNITY COLLEGE  
GODFREY, ILLINOIS 62035**

**Large Indoor Facilities - Commercial Vendors  
Flea Market Tables \$12.00 Each**

**EARLY VENDOR ACCESS FRIDAY 6-9 PM – SATURDAY 5:30AM**

## **Tickets**

**Advance \$4 or 3 for \$10 – At Door \$5**

**PRIZES: 1<sup>st</sup> \$150 – 2<sup>nd</sup> \$100 – 3<sup>rd</sup> \$50**

**Drawing at Noon - Door Prizes during the event  
You Need Not Be Present for Cash Drawing**

**For Reservations & Additional Information Contact  
Lewis and Clark Radio Club Hamfest Committee  
email: [hamfest@k9ham.org](mailto:hamfest@k9ham.org)**

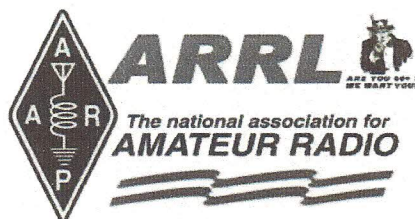
**Commercial Vendors - Free Parking - Door Prizes –  
ADA Accessible – Seminars**

**License Exams – All Classes, ARRL Format  
Pre- Registration Required for Technician Exams  
Contact Dennis Hutchins (WA9RD) at [wa9rd@charter.net](mailto:wa9rd@charter.net)**

**Lewis & Clark Community College Is Located Approximately  
25 Miles North of Downtown St. Louis on U.S. Route 67, Just North of Alton, Illinois.**

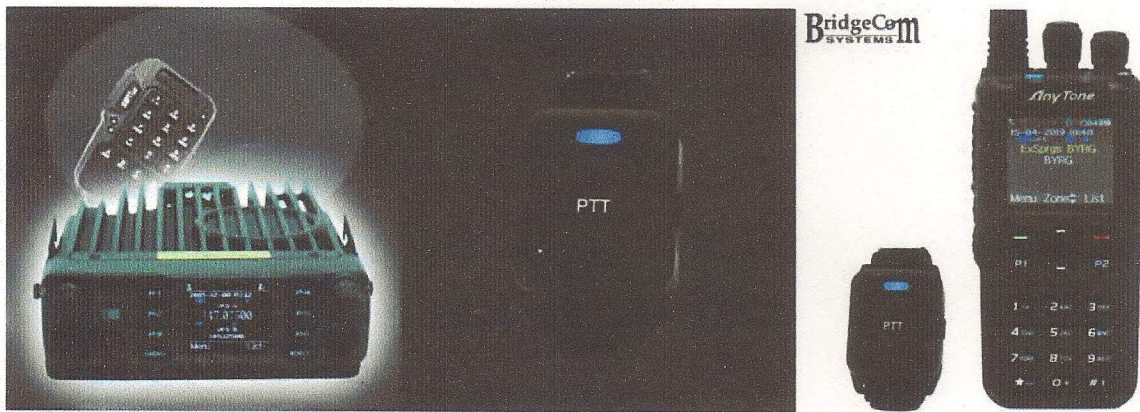
**38°57'07.0"N 90°11'46.1"W 38.951950, -90.196140**

**Once you are on campus just look for the signs directing you to the LCRC Hamfest.**



**Visit our Web-site: [www.k9ham.org](http://www.k9ham.org) Talk-In Will Be On K9HAM Repeater 145.230(-) PL 79.7**





## LEWIS & CLARK RADIO CLUB HAMFEST DRAWING 2020.

Tickets are \$5.00 ea. and only 300 Tickets will be sold!

**1<sup>ST</sup> Prize – AnyTone AT-D578UVIIIPRO DMR Mobile Radio**

**2<sup>nd</sup> Prize - AnyTone AT-D878UV PLUS**

The AnyTone AT-D578UVIIIPRO DMR Mobile Radio is a Tri-Band radio with a 1.77 inch color display, Transmit Power 5,10,25,45 (UHF)/50 (UHF)/10 (220) Watts, with 4,000 Memories, 10,000 Talk Groups, 200,000 Digital Contacts

The AnyTone AT-D878UV PLUS is a VHF/UHF DUAL BAND Hand Held radio Featuring both DMR digital and analog modes. DMR Tier I and Tier II operation.

Massive Memory: 4,000 Memory Channels, 10,000 DMR Talk Groups, 200,000 Digital Contacts, 250 zones, up to 250 channels per zone.

High Power Output - 6.0W, 4.0W, 2.5W, 1.0W selectable TX power output

**ONE TICKET = TWO CHANCES TO WIN**  
**TWO TICKETS = A CHANCE TO WIN THEM**  
**BOTH!**

**The Drawing will be held when all 300 tickets are sold!**



**58th Annual Moultrie Amateur Radio Klub Hamfest**



**Saturday April 25, 2020**

**8 a.m until 2 p.m.**

**Sullivan, IL**

**Sullivan American Legion  
Located at 2 E. Strain Street**

**Talk-In**

**146.655 -**

**Tone 162.2**

**Note: Repeaters are linked  
Echolink Node #744697, Call KC9S-R**

**Hourly Drawings**

**Indoor Facility 8' Tables \$10.00**

**Admission 14 and up \$5.00**

**You must have a ticket to enter.**

**EXAMS WILL BE GIVEN.**

**PLEASE BRING THE PROPER EXAM FEE AND DOCUMENTATION REQUIRED.**

**FOR INFO, OR TO RESERVE A TABLE**

**EMAIL: [mark.infolist@gmail.com](mailto:mark.infolist@gmail.com)**

**CALL: 217-254-7574**

**217-873-5287 EVENINGS**

**OR WRITE: MARK, P.O. BOX 91, LOVINGTON, IL 61937**

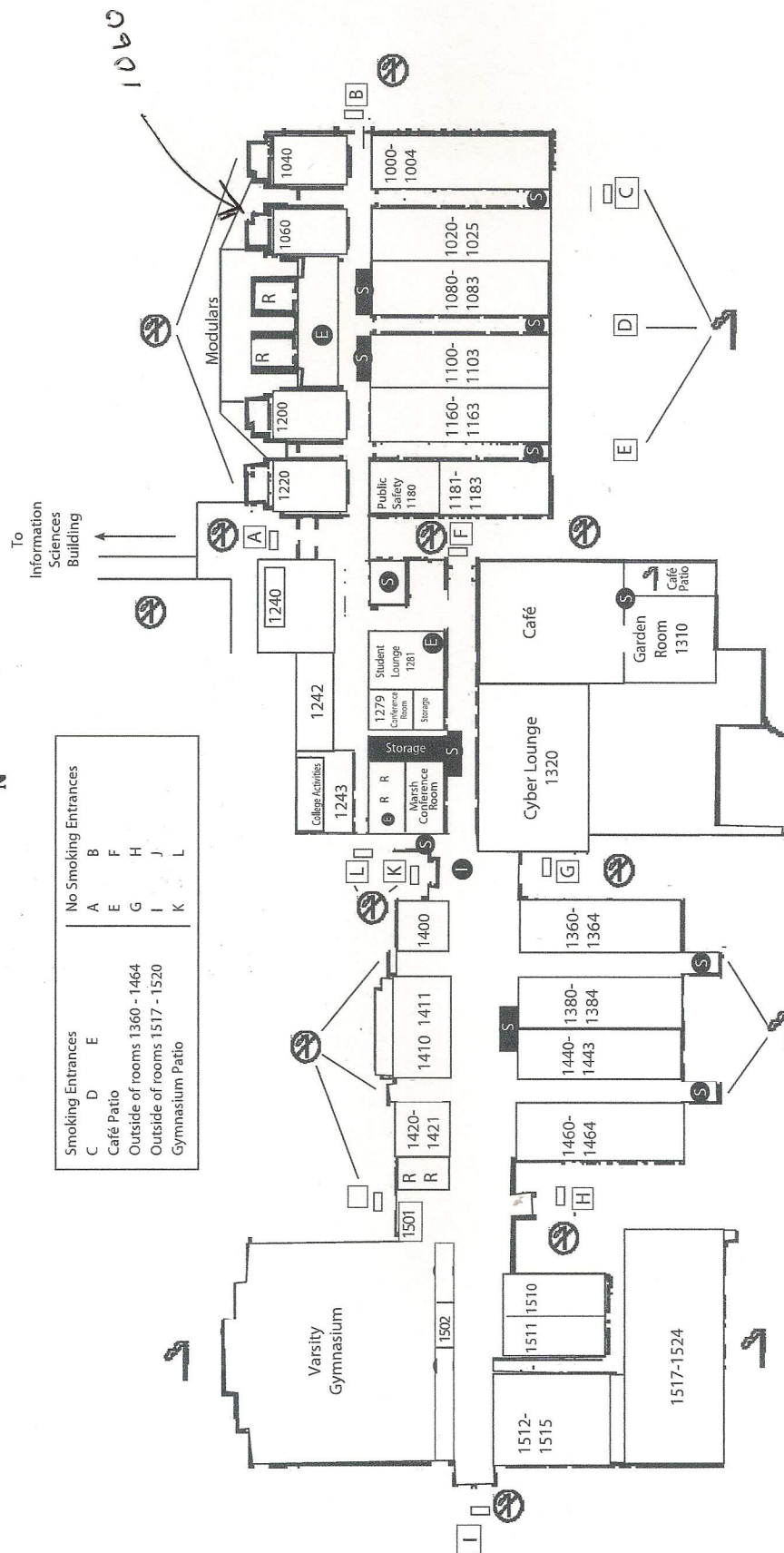
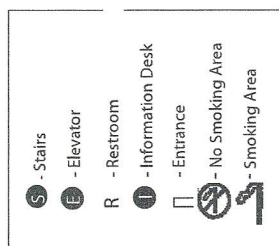
**If you're interested in Amateur Radio, electronics, and/or computers you should attend. We hope to see you there!**



2500 Carlyle Ave.  
Belleville, IL 62221  
(618) 235-2700

## First Floor

Smoking Entrances	No Smoking Entrances
C D E	A B
Café Patio	E F
Outside of rooms 1360 - 1464	G H
Outside of rooms 1517 - 1520	I J
Gymnasium Patio	K L



4/2014

M E T R O L I N K





# St. Clair Amateur Radio Club, Inc.

P.O. BOX C - BELLEVILLE, ILLINOIS 62222

Affiliated with ARRL  
Club Station Call K9GXU  
ARRL Official Bulletin Station  
Club Repeater WR9AKJ

## SCAN T. LAIR MATEUR N NEWSLETTER

21 JANUARY 1980

### PRESIDENTS CORNER

VE7CBV Ben Tolley

This months issue of SCAN marks the return of mailings prior to the regular end of month meeting. The previous mailings, after the meeting, were only intended to be in effect until the not for profit mailings were approved. This will be my next to last article as President of the club and I would like to thank the club members who have supported me so well for this past year. It has been a lot of fun and I certainly hope that you will all support the new slate of officers as well as you have supported our entire executive. I think our club has moved forward in many areas this past year and I am confident that the club will continue to grow and improve.....So many members have gotten involved with RTTY in recent months that a net is proposed for operation on a weekly basis and should be getting underway by the time you read this....A lot of new calls being heard on the repeater these days; if you havent thought about 2 Meter FM you really should give it a try - there are a lot of QSO's going on out there and we are waiting to hear from you.....Bob WA9TUG, just about has the banquet for 29 March all arranged. This will be a well done job I assure you and I hope you will plan on taking in this great evening with your XYL or girlfriend.

73 Ben

### 1980 CLUB DUES ARE DUE

If you cannot attend the next meeting, you can mail your club dues to the following:

#### REGULAR CLUB DUES

W9TRO \$10.00 Annual  
Bert Alwood  
P.O. Box 492  
Smithton, Ill. 62285

#### REPEATER DUES

WB9IFR \$10.00 Annual  
Roy Bischoff  
200 N. 72 St.  
Belleville, Ill. 62223

### DECEMBER MEETING HIGHLIGHTS

Two visitors were welcomed during the opening introductions - Joe Wickline, WB3GDX; and George Sinclair, K6ETM.

Ben, VE7CBV, announced that at the January meeting we will start planning for our 1980 March of Dimes Walk-A-Thon. A film will be shown on "How to Run a Walk-A-Thon" and specific jobs will be assigned to volunteers to get things rolling. About 10 or 12 people will be required.



## HIGHLIGHTS Continued

The aluminum can drive brought \$40.09 to the club treasury. This is averaging over \$10.00 per month. Keep up the good work.

Larry, K9GJN, our club historian, requested (for the second time) that every one furnish him with a small snapshot of themselves for the club records.

Ben said there had not been much activity this month on the proposed merger between our club and the Marissa Radio Club. However, the subject continues under investigation.

John, K4UHC, volunteered to take the responsibility to publicize our monthly meeting so we can increase attendance and attract visitors. It should be mentioned, however, that attendance has been good, averaging about 40 members.

Under OLD BUSINESS the subject of another club meeting place was discussed. To date, no acceptable location has been found. Several members gave suggestions on additional places to check.

Ed, W9RQR, announced that Life Insurance is available for official members of RACES while serving as a volunteer. He asked that anyone interested should see him at the next meeting when he will have application forms available.

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## COMING EVENTS

- Jan 27.....Wheaton Hamfest sponsored by the Wheaton Community Radio Club, at Arlington Heights Race Track, Arlington Heights, Illinois.
- Mar 14.....Jefferson Barracks Amateur Radio Club Hamfest and Auction, at Electricians Hall, 5850 Elizabeth Ave. St. Louis, Missouri.
- Mar 29.....St. Clair Amateur Radio Club Annual BANQUET. To be Held at Fishers Resturant, 2100 West Main, Belleville, Illinois. See Bob, WA9TUG, for ticket information.
- May 24-25.....Gateway Amateur Radio Association Convention, Cervantes Convention Center, St. Louis, Mo.
- Jun 8.....Egyptian Radio Club Hamfest. To be held at the Egyptian Radio Club Clubhouse, Granite City, Ill.

### ST. CLAIR AMATEUR RADIO CLUB

## **ANNUAL BANQUET**

with  
MC and Entertainment

## **MARCH 29, 1980**

FISHERS'S RESTURANT  
2100 West Main  
Belleville, Ill.

PLAN NOW TO ATTEND

See Bob WA9TUG for ticket info.

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## TRAINING CLASSES

The training classes started on Thursday January 17. The Novice Class, taught by Jim WA9SQE, has 20 students enrolled and John, WAØLIS, has 10 students in his Technician Class. Based on comments by the students, the flyers we gave out advertising the classes were equally as effective as the adds placed in many of the local newspapers. Some people sent word they would start next week, so the classes are expected to grow.



## INEXPENSIVE WWV CONVERTER

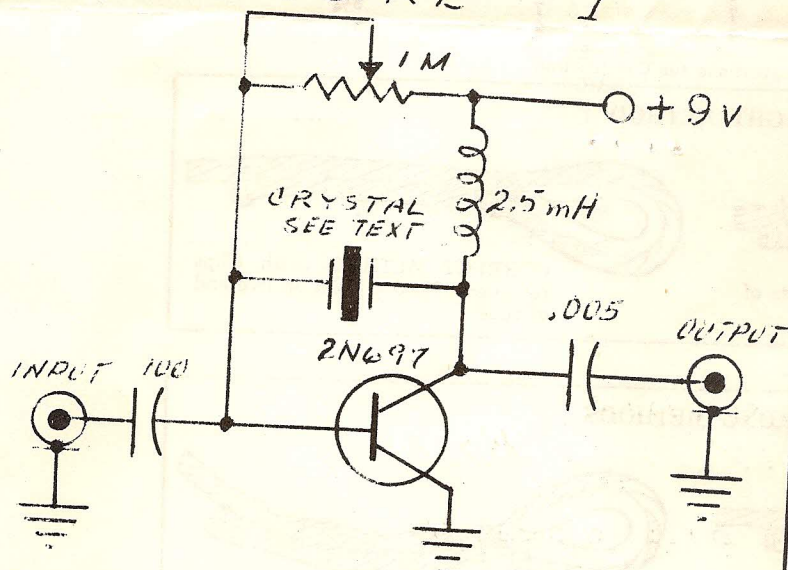
Here is a simple circuit that will convert WWV signals above 5 MHz to amateur bands between 80 and 15 meters. The converter consists of a simple crystal mixer using a single NPN transistor. (Figure 1).

A variety of crystal frequencies can be used, depending on which WWV signal is desired. See Table 1. The exact output frequency may be determined by finding the difference or sum of the desired WWV frequency and the crystal frequency.

No tuned circuits are used, so other signals will be received in addition to WWV. For example, if a 6.5 MHz crystal were used to convert WWV at 10 MHz to 3.5 MHz, all signals on 3.5, 3.0, and 10 MHz would be picked up. However, WWV is usually strong enough to be picked out easily. If necessary, tuned circuits could easily be installed between the antenna and the converter.

WWV transmits much interesting data in addition to the time ticks. Schedules and types of information are published in the ARRL handbook.

FIGURE 1



Ham Band	WWV frequency (MHz)			
	10	15	20	25
80	6-6.5	—	—	—
40	2.7-3.0	8-7.70	—	—
20	4-4.35	—	6-6.65	—
15	—	6-6.45	—	3.55-4.00

TABLE 1

Crystal frequencies that can be used to convert WWV to the various amateur bands.

## HR REPORT ARTICLES

NOAA weather broadcasts may not be picked up from VHF stations and rebroadcast over local or even by an individual Amateur station, despite some lingering confusion over this point of law. FCC rules specifically prohibit the retransmission of any broadcast picked up outside the allocated Amateur sub-bands. Such weather broadcasts may be rebroadcast during times specified as weather emergencies by NOAA. The use of autopatches for dialing local weather reports is not, despite recent published reports, illegal. Since these weather reports are not originated as "broadcasts", their re-transmission by Amateur stations--either by repeater or individual--is not a violation of FCC rules.

Photocopies are now adequate substitutes for an Amateur's original license. The rules change became effective December 21.



"How does it load on 160?"



## ATTACHMENT OF CABLE CLAMPS

The following information on the proper and safe way to attach clamps to cables such as used for guy wires was submitted by Bob, WA9TUG.

### **APPLYING WIRE ROPE CLIPS**

The U-Bolts of all clips should always be on the short (dead) end of the rope.

Tighten nuts evenly to manufacturers' recommended torque.

Before lifting be sure that all clips have been torqued.

After several lifts, retorque all clips.

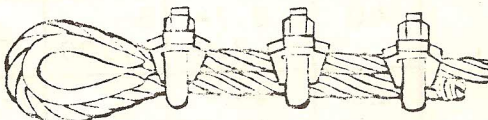
For wire rope sizes not shown in Table H-20 follow clip manufacturers recommendations.

#### **NUMBER AND SPACING OF U-BOLT WIRE ROPE CLIPS\***

Improved low steel, rope diameter inches	Number of clips		Minimum spacing (inches)
	Drop forged	Other Material	
1/2	3	4	3
5/8	3	4	3 3/4
3/4	4	5	4 1/2
7/8	4	5	5 1/4
1	5	6	6
1 1/8	6	6	6 3/4
1 1/4	6	7	7 1/2
1 3/8	7	7	8 1/4
1 1/2	7	8	9

\*Table H-20, OSHA Safety and Health Regulations for Construction.

#### **RIGHT METHOD**

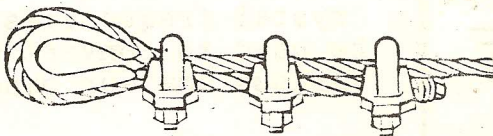


CORRECT METHOD: U-Bolts of  
Clips on short end of rope.

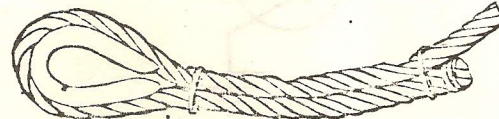


CORRECT METHOD (with Clips  
removed): No distortion on live  
end of rope.

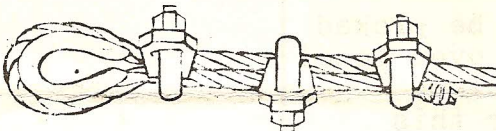
#### **WRONG METHODS**



WRONG: U-Bolts on live end of  
rope.



WRONG: Note mashed spots on live  
end of rope.



WRONG: Staggered Clips; two cor-  
rect and one wrong.



WRONG: Note mashed spot due to  
U-Bolt of center clip.

#### **ADDRESS CHANGING**

If you are planning to move or you have recently changed your residence, please enter new address in the blanks below:

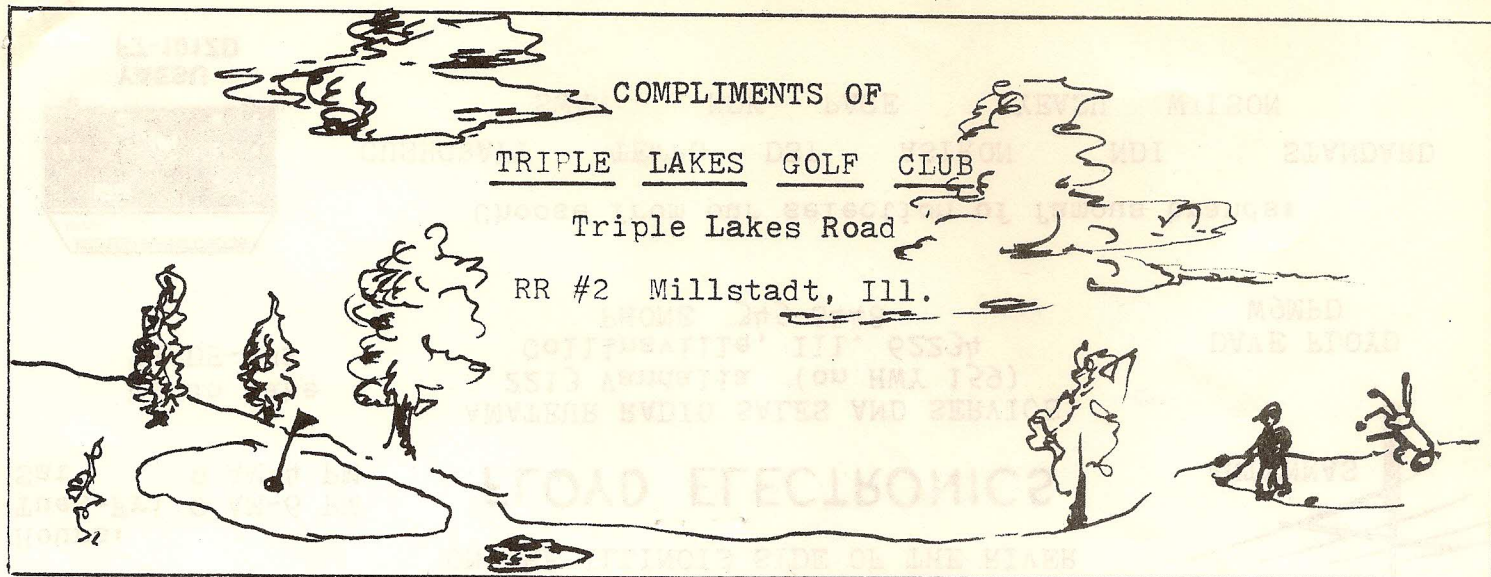
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Mail this form to: Jim Musgrove, 224 Brittany Ln. Belleville, Ill. 62223





COMPLIMENTS OF  
TRIPLE LAKES GOLF CLUB

Triple Lakes Road

RR #2 Millstadt, Ill.

# ELECTRONIC CROSSWORD PUZZLE

Answer to be printed

next Month

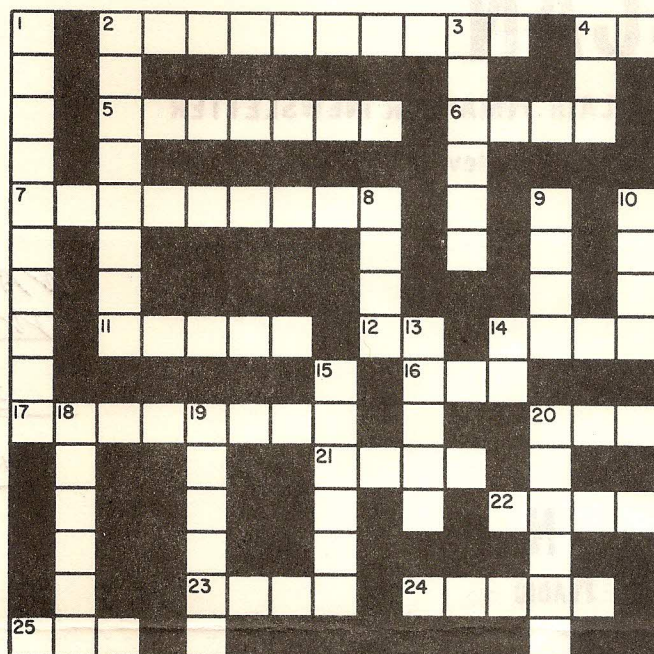
## HORIZONTAL

2. A type of electron tube which contains little or no gas.
4. Letter symbol for the screen grid of an electron tube.
5. A chemically reacting device that stores electrical energy.
6. A circuit protector.
7. Tubing sometimes used to provide additional insulation for a wire.
11. Device used in one circuit to control another circuit.
12. Abbreviation meaning wires are not connected.
14. A gate-like structure in an electron tube.
16. When a transformer has loose laminations it often does this.
17. Resistor-type control used in a circuit to vary amount of current flow.
20. Some power transformers have a center \_\_\_\_\_ which is grounded.
21. Found around the neck of a cathode-ray tube in a television receiver.
22. Replaceable part of some cartridge-type fuses. Also a type of r.f. coupling.
23. Found in projection TV receivers and cameras.
24. A two-element electron tube.

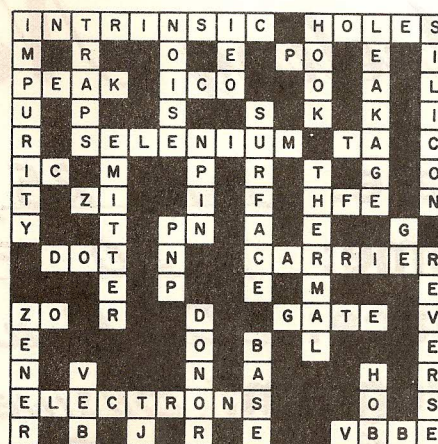
25. Abbreviation for secondary winding of a transformer.

## VERTICAL

1. Compact, unilateral device which is gradually replacing electron tubes in some circuits.
2. Used in a car radio to convert direct current to alternating or pulsating d.c.
3. Used in conjunction with a speaker or several speakers to improve reproduction.
4. Abbreviation for wire; meaning single-cotton-covered over enamel wire.
8. Metal used in the construction of transformer cores.
9. Abbreviation for speaker.
10. A connecting wire.
13. Usually used in conjunction with capacitors to form a filter.
14. Letter symbol for mutual conductance.
15. A record player or disc recorder needle.
18. A six-element electron tube.
19. Placed around a component to prevent stray coupling.
20. A three-element electron tube.

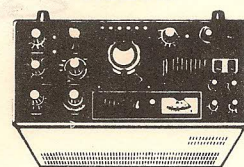


Answer to the December Puzzle





FT-101ZD  
YAESU



CUSHCRAFT TEMPO DSI ASTRON NDI STANDARD  
SWAN KDK PAGE YEASU WILSON

Choose from our selection of famous brands:

DAVE FLOYD  
W9MPD

AMATEUR RADIO SALES AND SERVICE  
2213 Vandalia (on HWY 159)  
Collinsville, Ill. 62234  
PHONE 345-6448

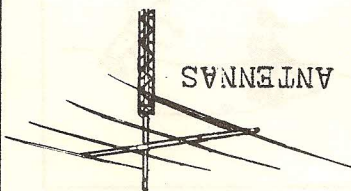
We do take  
TRADE-INS

Hours:  
Tues-Fri 9 AM-6 PM  
Sat 9 AM-4 PM

FLOYD ELECTRONICS

NOW YOU CAN GET QUALITY HAMGEAR AND SERVICE  
ON THE ILLINOIS SIDE OF THE RIVER

ANTENNAS



SCAN

St. Clair Amateur Newsletter

P.O. Box C - Belleville, Ill. 62222



AMATEUR NEWS  
RADIO

Meeting Notice!!! THIS FRIDAY

Date: JAN 25, 1980

Time: 7:30 PM

Place: CD BUILDING 1505 CASEYVILLE AVE.

Program: BUSINESS, ENTERTAINMENT,  
COFFEE, GOODIES & SWAP TABLE