

Minutes-August 17, 2023, General Meeting

By Jim Gifford KD8APT, Secretary

Executive Committee Members Present

President: Ray Hitt N8VMX, Newsletter

Vice President: Glenn Rodgers KE8LZD, Greeter, Shack Tours

Treasurer: John Westerkamp W8LRJ, Communications Center

Secretary: Jim Gifford KD8APT

Jr. Director: Jim Lusk KC8EFD, Clubhouse

Functional Coordinators Present:

Jim Totten WA8HUB, BARC Lunch Bunch

Paul Sharp WS8R, Education, Flex Users Group

Tink Siwecki KD8NUA, Hospitality

Executive Committee Members Absent

Sr. Director: Don Parker KB8PSL, Public Service

At 7:30pm, President Ray Hitt N8VMX led attendees in the pledge of allegiance. Hitt then welcomed our speaker of the evening, Tim Procuniar N8NQH.

Agenda Item 1. Presentation: Tim Procuniar – All about CTCSS

Tim Procuniar gave an excellent presentation about CTCSS and its use in amateur radio. (Secretary note: the PowerPoint presentation was too large to copy here, so example slides are included.)

Procuniar asked for audience participation several times during the presentation using several pieces of equipment.

Set RADIOS to:

**147.405 simplex
carrier operation (no ctcss)**

and be ready to enable 110.9 CTCSS
upon request...

Description of CTCSS

CTCSS

- Continous
- Tone
- Coded
- Squelch
- System

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Called by many names...

- **PL** tone (Private Line)
- **QC** (Quiet Call)
- **CG** (Channel Guard)
- **QT** (Quiet Talk)

They are all describing the same thing.

Most radios offer 3 operational modes:

- * No CTCSS
often called "carrier mode"
- CTCSS enabled for both TX and RX
- **CTCSS enabled for TX alone, or RX alone, or both** (individual control of encode/decode)

Some offer a 4th selection

- **DCS (Digital Coded Squelch)**
kinda like CTCSS... but does not use analog audio to create the unique marker. DCS is a combination of an analog channel with a digital squelch component.

Not going into detail about DCS for tonight presentation

What does CTCSS do ???

On the transmitter end... it adds a low amplitude audio tone to an existing voice transmission

Then he had a transmit demonstration.

TX Demonstration 1 of 2

Set radio to **non** CTCSS operation
"Carrier mode"

Or switch to your non-CTCSS memory channel

147.405mhz simplex

Remember to TX, show radio on program

And make sure to key up, hold in the microphone (over the key), then give call sign

Additional operational description.

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What does CTCSS do ???

On the **receiver** end, it makes the squelch control.... selective;

to where you won't hear any transmission audio unless it can detect the CTCSS tone present in the background.

Results of the group experiment.

If you have CTCSS enabled...

And are receiving a transmission that does not have CTCSS encoded with it (or the wrong CTCSS tone)...

Your radio will indicate a busy condition (light or screen icon)

but your speaker will be silent. Correct condition

Which tone frequencies are used?

Is there more than one audio tone used in CTCSS?

CTCSS TONE FREQUENCY (Hz)					
67.0	69.3	71.9	74.4	77.0	79.7
82.5	85.4	88.5	91.5	94.8	97.4
100.0	103.5	107.2	110.9	114.8	118.8
123.0	127.3	131.8	136.5	141.3	146.2
151.4	156.7	159.8	162.2	165.5	167.9
171.3	173.8	177.3	179.9	183.5	186.2
189.9	192.8	196.6	199.5	203.5	206.5
210.7	218.1	225.7	229.1	233.6	241.8
250.3	254.1	-	-	-	-

Why not hear the tone?

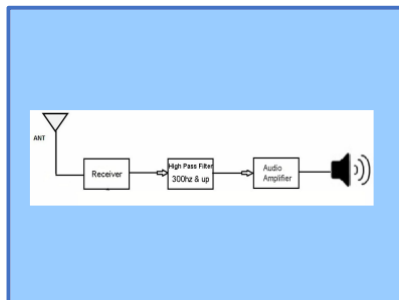
Why don't I hear this audio tone

In the background of a CTCSS encoded transmission?

- It is of low amplitude.
- Doubtful your radios tiny speaker could reproduce such a low frequency tone.
- Radios incorporate a high pass filter in the audio section - starting @ 300hz.**
aka; low cut filter.

What happens in the transceiver?

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Difficulties?

Too Good to be True !

Are there any negatives to CTCSS ??

Yes, decode time... delay in decoding.

And he concluded answering several audience questions.

Thank-You !



Agenda Item 2. Minutes from July Meeting

Jim Totten WA8HUB moved we accept the minutes as emailed; Ken Gunton W8ASA seconded; passed.

Agenda Item 3. Treasurer's Report

John Westerkamp W8LRJ gave the Treasurer's report. The email he sent out just before the meeting is found below:

"Income in August greatly outpaced expenses as we made a large number of auction sales. So far, BARC has made over \$1200 from the estate auction for W9CPI. Thank you to Stu Holzer, K8ST, and Ken Gunton, W8ASA, for running the auction.

As recommended at the July Membership Meeting, I am looking into putting some of our balance into short term securities or CD's to take advantage of the high interest rates. We continue to be in great financial shape and our balance as of the August Membership Meeting is \$9185.35."

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Thanks!

John Westerkamp, W8LRJ

Fund	31-Jul-23	Income	Expenses	31-Aug-23
General	\$5,760.80	\$738.99	\$69.98	\$6,429.81
Comm center	\$1,594.70	\$0.00	\$0.00	\$1,594.70
Refreshments	\$909.10	\$0.00	\$67.79	\$841.31
Repeater	\$319.53	\$0.00	\$0.00	\$319.53
ALL FUNDS	\$8,584.13	\$738.99	\$137.77	\$9,185.35

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Westerkamp thanked Ken Gunton and Stu Holzer K8ST for raising over \$1,200 in auctioning off the donated equipment. He also encouraged members to sign up for Kroger rewards, if they have not already done so.

Ken Gunton moved we accept the report; Joe Muchnij N8QOD seconded; passed.

Westerkamp spoke of the upcoming Lions Club parade and asked all volunteers to be at the church lot by 3:15. He also talked about the Ohio QSO party and Fall Field Day. The Fall Field Day will be at Buck Creek State Park at the Hickory Knoll shelter. We will gather at 8am.

Agenda Item 4. President Report

Ray Hitt encouraged members who had not signed up to show up at the Lions Parade. It will be a good experience in a controlled environment. Folks new to the parade will be able to shadow someone already experienced.

Hitt announced that BARC received a third-place award, in the state of Ohio, for our *Full Quieting* newsletter.

He also said we still have two openings: the Emergency Preparedness Coordinator and Field Day Coordinator. Also, he said that general elections are coming soon.

Agenda Item 5. Coordinators' Reports and Other Business

Jim Totten said the BARC Lunch Bunch would be meeting at China Gardens Buffet. Totten also brought a Brown Brothers Machine Company telegraphy key, which he is writing an article about in *Full Quieting*.

Tink Siwecki KD8NUA had to leave so Steve Siwecki KD8NUC announced *The Zoo Keepers Wife* will be the movie for the following week's movie night.

It was questioned whether October would be our annual Chili Cookoff. Yes it will be.

Jim Lusk KC8EFD moved we close; Larry Darner KD8RER seconded.

Closed at 8:26pm