

W9JOZ

Volume 10, Issue 4

April 2020

Next Meeting is on the Air

Greeting fellow amateurs,

No club meeting in April for obvious reasons, the library is closed. But we can meet on the repeater at 7 PM on Thursday nights. Kc8obh, Dave, to act as net Control for Thursday nights. We have a repeater let's use it thanks to W3ML, John.

Also the Michigan QSO party is April 18 and 19. See their website for times rules and other details

Dave
Kc8obh



Meetings are at the Henry F. Schricker Library on the third Thursday of each month, with the exception of December.

The library is located on west Culver Road, two blocks west of Highway 35.



Are you on the air?

Library Door locks at 7:00 p.m. so if you are late, knock loud.

Don't forget Dues are due for 2020.

Still \$12.00

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Events

Fox Hunts are the 2nd Sunday. See webpage for details

Birthdays

5th - Paul, N9QYK

7th - Levi, WB9CAO

25th - Lenny, KQ9A

Starke County Amateur Radio Club Weekly 2 Meter Net will be on each Saturday at 8:00 p.m. Central time.

DAY OF WEEK: Saturday 8:00 p.m. Central time

HOST: KN9OX Repeater

FREQUENCY: 145.410 - 600

PL TONE: 131.8

New Items Listed

See all the For Sale Items at

www.w9joz.org/forsale.htm

There are a lot of them there. Updated regularly.



See the For Sale Page on the Club website. If you have items to sell email me a list with prices and contact information.

LINKS

Tom, W9QN sent this in:

As I was putting this e-mail together, Ken called me on the landline. If you go to: <http://websdr.org/> and select "North America" in the region box, you will get a list of stations available. Ken was using <http://websdr.k3fef.com:8901/> In Milford, Pennsylvania and said that he could copy all of us very well. He had first tried the Georgetown, KY location but was not able to hear Tom, KR4BD in Lexington on that one. Very interesting, I am going to play with it for a while.

Maybe I will become a SWL !!!

He also sent this:

" THIS IS HAM RADIO " 1970 ARRL Promo Film

<https://www.youtube.com/watch?v=v6-ydrdTPhM>

And he sent this too:

Here is a link to a 14 minute YouTube video that was sent by one of the Lionel groups online:

<https://www.youtube.com/watch?v=eSRcJCOQTGQ>

Tom, W8FIB sent this to me:

Collins R-390A Cold War Receivers

[Boat load of R-390A Receivers](#)

STAY HOME --- STAY SAFE

Circuit Board for Bare-Bones Ventilator Moves Toward Production with Radio Amateurs' Help

04/01/2020

Radio amateurs continue to play key roles in developing the electronic control system for an open-source/architecture, modular, low-cost human patient ventilator. The device itself was designed by researcher Sem Lamptang and his team at University of Florida Health — the school's academic health center — using such commonly available components as PVC pipe and lawn-sprinkler valves. The idea is to create a bare-bones ventilator that could serve in the event of a ventilator shortage.

“The way I looked at it is, if you're going to run out of ventilators, then we're not even trying to reproduce the sophisticated ventilators out there,” Lamptang said. “If we run out, you have to decide who gets one and who doesn't. How do you decide that? The power of our approach is that every well-intentioned volunteer who has access to Home Depot, Ace, Lowe's, or their equivalent worldwide can build one.”

His team is working on adding safety features to meet regulatory guidelines, then they will run engineering tests to determine safety, accuracy, and endurance of the machine, which can be built for as little as \$125 to \$250.

Dr. Gordon Gibby, KX4Z — a retired associate professor of anesthesiology at the University of Florida and an electrical engineer — is among those involved in the project, developing control-system prototypes. He reports that a trial printed circuit board is being created, populated, and tested prior to large-scale fabrication. “This should lead to a documented open-source design that can be replicated or improved upon by any interested manufacturer,” Gibby said, noting that the board could be built anywhere in the world, based on the Arduino Nano microcontroller.

“A huge amount of work has gone on in the design of the circuit boards,” Gibby told ARRL. “We have at least two, maybe three designs, ready for fabrication.” Current design specifications and a video of prototypes have been [posted online](#). The Arduino-based control software will set the respiratory rate and other key parameters in treating critically ill coronavirus victims. Other radio amateurs involved in the control system aspect of the project include Jack Purdum, W8TEE, and uBITX transceiver maker Ashhar Farhan, VU2ESE.

Using a [Groups.io](#) forum, up to 140 volunteers have been studying or working to push the project to completion. Software is being created by multiple volunteers, with amateur radio operators involved in that phase as well.

The ventilator's valves will precisely time the flow of compressed oxygen into a patient with lungs weakened by viral pneumonia in order to extend life and allow time for the body to clear the infection.

Among the project's assumptions: The Food and Drug Administration will waive clearance for the bare-bones design, if a massive shortage develops; traditional medical components and supplies used in ventilators will be in short supply, and transportation will be impaired or disrupted.



- Ventilator contro...
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International Marconi Day 2020 has been Canceled

03/31/2020

The annual International Marconi Day ([IMD](#)) ham radio operating event that was set to take place on April 25 has been canceled because of the coronavirus pandemic. The 24-hour amateur radio event celebrates the birth of Marconi on April 25, 1874. Sponsored by the Cornish Radio Amateur Club, which operates as GB4IMD, International Marconi Day features participating stations operating at sites having a personal connection to Marconi, including places where he set up transmitting and receiving stations.

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Field Day 2020 — A Time to Adapt

03/27/2020

Many individuals and groups organizing events for [Field Day](#) 2020 have been contacting ARRL for guidance on how to adapt their planned activities in this unprecedented time of social distancing and uncertainty.

“Due to the unique situation presented this year, this can be an opportunity for you, your club, and/or group to try something new,” ARRL Contest Manager Paul Bourque, N1SFE, said. “Field Day isn’t about doing things the same way year after year. Use this year to develop and employ a new approach that is in line with the current circumstances.”

Social distancing and state and local requirements very likely will impact just how — and even whether — you are able to participate in Field Day this year. ARRL continues monitoring the coronavirus situation, paying close attention to information and guidance offered by the Centers for Disease Control and Prevention ([CDC](#)). If social distancing means that Class A with a 30-member team set up in a city park won’t work this year, then it’s time for a Plan B. Part of the Field Day concept has always been adapting your operation to the situation at hand. At its heart, Field Day is an emergency communication

demonstration. Field Day rules are flexible enough to allow individuals and groups to adjust their participation and strategies in a way that still addresses their needs while being fun. Some possibilities:

- Encourage club members to operate from their home stations on emergency power (Class E).
- Use the club's repeater as a means for individual participants to keep in touch during the event.
- Family members interested in operating Field Day and unable to participate as part of a larger group may want to consider setting up a portable station in the backyard with a temporary antenna.

One big impact this year will be a decline in public visibility and any interaction with the visitors. Prudence may dictate dispensing with the ham radio PR table to attract passersby, should you set up in a more public location. It's okay not to score all the bonus points you may have attempted in the past. Local and served agency officials may be unwilling to visit, which is understandable under the circumstances. Do be sure to reach out to them as part of your preparations and remind them that you look forward to continuing your working relationship with them in the future.

The impact will differ from place to place, so ARRL recommends that all amateur radio clubs participating in Field Day stay in regular contact with local or state public health officials for their advice and guidance on hosting Field Day activities.

Demonstrating an understanding of the health crisis we all face and your willingness to adapt will show that you and your club or group are good working partners with local or served agencies.

“With any emergency preparedness exercise, it's not about adapting the situation to your operation, it's about adapting your operation to the situation that presents itself,” Bourque said. “Try something different. Learn something new about how you prepare. It may be a challenge, and you may have to ask yourself if you're up to the challenge. We hope to hear you on the air over the June 27 – 28 weekend.” — *Thanks to Paul Bourque, NISFE, and Dan Henderson, NIND*

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If you have something for the newsletter, please send it to me before the 20th of the month.

See you at a meeting.

Sometime in the Future

73

John, W3ML

