



APRIL 2022

Volume 11 Issue 4

VE3ERC-LUB

President: Ted VE3TRQ
Vice-President: Frank VA3FJM
Secretary: Kirk VA3KXS
Treasurer: Paul VA3PDC
Trustee: Wes VE3ML
QSL Manager: Kirk VA3KXS
Repeater Trustee: Wes VE3ML
Website Admin: Ted VE3TRQ
Lighthouse: Al VA3TET
Maple Syrup Display: Al VA3TET
Newsletter: Bob VE3IXX
ERC Website: <https://ve3erc.ca>

ERC REPEATERS

UHF 444.700 + TONE: 131.8
UHF 444.700 + TONE: 123.0
VHF 147.390 + TONE: 123.0
VHF 147.255 + TONE: 131.8
EMERGENCY SIMPLEX: 146.550
UHF-IRLP node 2404,ECHOLINK VE3ERC-L
VHF- IRLP node 2403,ECHOLINK VE3ERC-R

**In an emergency, tune
Into our repeaters,
UHF 444.700 or
VHF 147.390 or
HF 3.755 LSB or
Simplex 147.510
For coordination and
assignments.**



More POTA activations. See page 6.

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THE PREZ SEZ!

This club is Radio-ACTIVE

This club is Radio-ACTIVE

President's Update for April 2022



**Just a Reminder to all our membership!
Those who may have forgotten to renew.**

**Memberships are past due for the Elmira Radio Club.
As next month of May is the annual meeting,
Memberships have to be renewed before members can vote.
Get hold of Paul VA3PDC to renew if you have not yet done so.**

CONTRIBUTIONS TO VE3ERC-CLUB NEWSLETTER

Do you have an article you'd like to submit? Or photos? Do you have any comments you'd like to make?

Perhaps you'd like to share a photo of your shack, a special project you are working on or a special interest!

SEND THEM TO:

**Bob bobve3ixx@gmail.com
(519-787-2279)**



WEDNESDAY NITE NET CONTROLLERS

MARCH 16 - REG VE3RVH

MARCH 23 - MEETING

MARCH 30 - FRANK VA3FJM

APRIL 6 - TOM VE3DXQ

APRIL 13 - TONY VE3DWI

APRIL 20 - BRIAN VA3DXK

APRIL 27 - MEETING

MAY 4 - BOB VE3IXX

MAY 11 - TED VE3TRQ

MAY 18 - BILL VA3QB

MAY 25 - MEETING

JUNE 1 - KIRK VA3KXS

JUNE 8 - REG VE3RVH

All Keyed Up by

**Dan Romanchik,
KB6NU**



Amateur Radio Helps Rescue Injured California Outdoorsman

April 24, 2022 Colin Butler

A relaxing weekend of camping and fishing did not go as planned last Friday when a member of a California outdoors club fell and broke his hip.

The Old Goats Mountain Club (OGMC) had worked their way along an old Forest Service Road into a rugged, off grid location in the foothills of the Cascade Mountains. Dave Johnson, KL7DJ, said his friend slipped and fell while trying reel in a catch. The injury was so severe that the man could not be moved safely with a trip that could take at least 2 hours over the rough terrain.

Johnson is the only licensed amateur radio operator in the group and using the California Amateur Linking Radio Association (CARLA) system, he was able to call for emergency help from this vehicle. Greg Stamback, KD6VEN, located in the San Francisco Bay area responded and contacted the Shasta County EMS which dispatched a REACH 5 rescue helicopter from their base in Redding, California.

The entire rescue took about 1 hour and before the helicopter landed a local ambulance company arrived and was able to stabilize the injured camper. After surgery and 3 days in the hospital he is now at home recovering.

Johnson's wife Linda, KL7ISN, helped coordinate getting their friend's vehicle back to Redding. Using pre-planned contact schedules for Friday and Saturday and, after several make-shift auto-patches, the car was driven to a nearby highway where two other club members were able to take the car safely back home.

But the weekend was not over for amateur radio help. While the rest of the group was making their way out of the mountains on Sunday they were flagged down by a stranded motorist. His car's gas tank had been punctured and his cell phone would not work. He was taken to a small community along the way where there was a landline, and he was able to call for help from AAA.

Johnson said the motorist was thankful for the help and another member of the OGMC suggested the motorist might want to consider getting an amateur radio license.

While waiting for a tow truck to arrive, Johnson and a couple of OGMC members talked about amateur radio and how it had helped over the last few days. One member suggested maybe even he should have a transceiver installed in his vehicle. Johnson plans to make sure his friend, and the motorist, get a complete demonstration.



**From
the**

PAST



The world's first Motorola cell phone compared to the present.

As the weather has slowly warmed, many hams are warming to the idea of getting out into the wilds and activating "Parks On The Air" (POTA) Following is the blog of the recent adventures of Bill Nangle VE3FI of Kingston.



Wednesday, 13 April 2022

Spooky Activation...



It's not very often I go to cemeteries, in fact I can't remember the last time I did.....before last night.

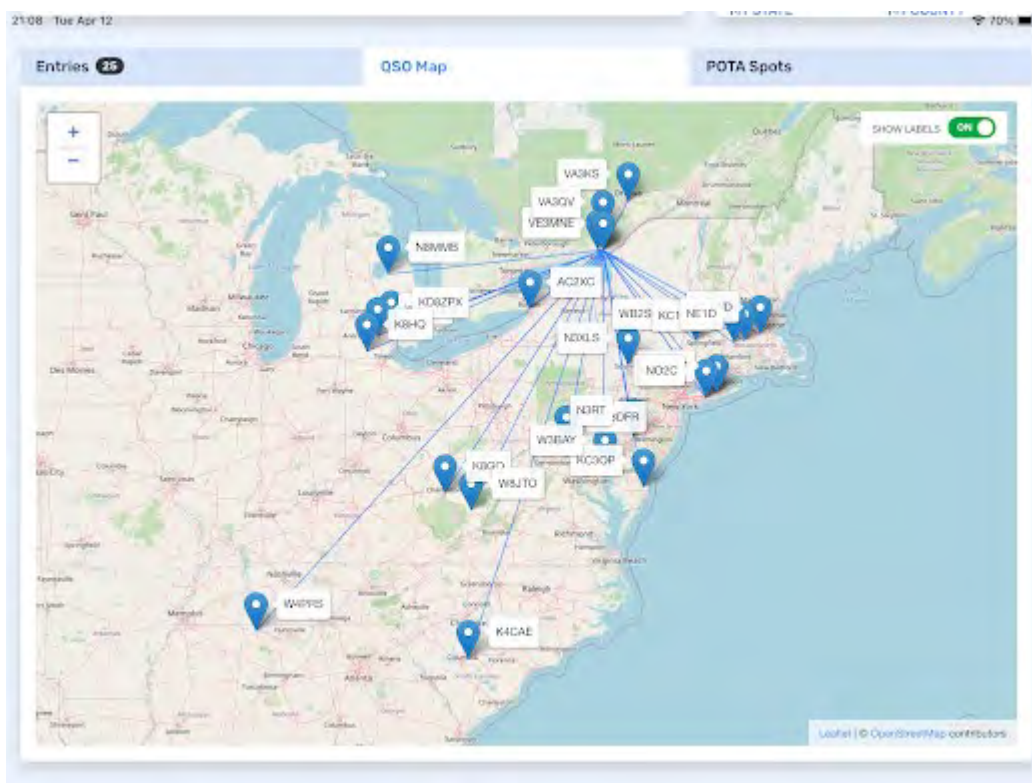
Sometime last year Cataragui Cemetery National Historic Site was added to the POTA list as VE-5300. To be honest, at the time most of the hams in town thought it was kind of disrespectful to do that, myself included.

But then you hear the stories from the old guys about how many hams are actually buried there, so I decided to bite the bullet and activate it.

Let me tell you, it's a very spooky spot at night. Yep, I did a late shift activation starting at 0001 UTC....but I won't do that again. In fact I don't think I will ever activate there again, once was enough, thank you very much.

It took me 21 minutes to put 25 contacts in the log. 40m was just hopping, yet the QSB was bad and the propagation numbers weren't the best: SFI-96, SN-24, A Index-12, and the K Index-3. It was interesting that in the cemetery I had a constant S9 noise floor, so I know many stations who couldn't make it through the noise floor were missed. The contacts made were all solid S9 plus.

I must admit I was very uncomfortable there, it's not really the place to play ham radio, so I closed down with the 25 contacts and went home. Here's last night's 40m contact map:



Stay safe out there!!

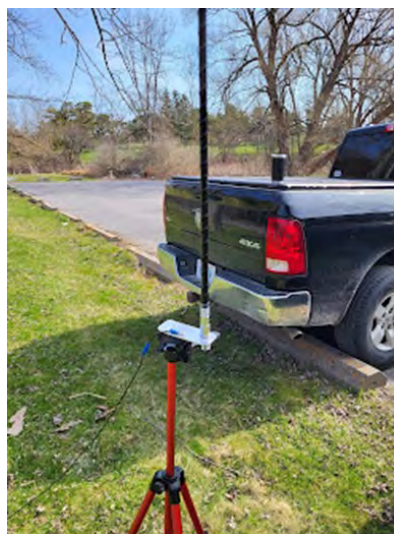
Sunday, 24 April 2022

Sunday morning in the Park...

The propagation numbers this morning seemed to be a lot better than they were yesterday, so off I went after breakfast to the Marshlands Conservation Area, POTA VE-5143, and set up to activate the park.

Let me tell you that the propagation numbers that popped up on the space weather website, had nothing to do with what was actually experienced on air. The published numbers were: SFI=160, SN=118, A Index=12, and the K Index=1.

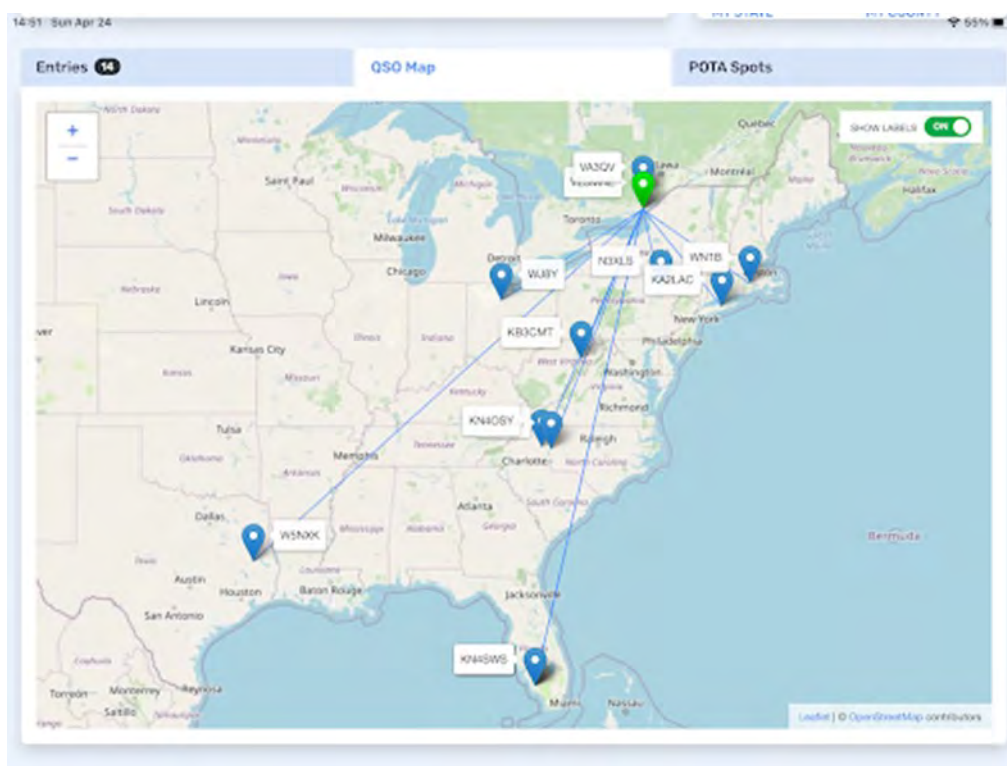
It took me 90 minutes to make 14 contacts on three bands, 15m, 20m, and 40m. Not at all what I expected when I started. That is the longest amount of time I have ever spent on an activation so far.



Close up of the actual mount.

There are a couple of things I need to do for the next time I use this setup. Firstly , I need to find a good way of securing the tripod so it doesn't tip over. Today was fine, we had zero wind.

Today was another first....it was the first time I activated this year and didn't sit in the van, I actually setup outside on a small portable table. Yes, spring is here!!



LifePO Batteries Explained

By Tom MCQuiggan M7MCQ

Wednesday, 27 February 2019

LifePO4cell Batteries

UPDATE : Since writing this post, my batteries (an 8400Ah and 4800Ah) have had their **2nd birthdays**. They have been 100% trouble-free and I've been incredibly happy with my purchase. I've mainly used the 8400Ah for my longer outings and the smaller one for more local work. I have used them with Elecraft KX3, Icom IC-7100, Yaesu FT-818 and more recently with my Icom IC-705. The big battery seems almost impossible to drain!!

HIGHLY RECOMMENDED!



When I bought a couple of LifePO4 "ZIPPY FLIGHTMAX" batteries from HobbyKing to power my radios while out and about, they arrived with zero information about how to look after them. No advice on how to use them, charge them, maintain them or store them. I was aware that they could be dangerous and that they had specific charging requirements in order to prolong their life. So, after spending ages trawling the internet, I've learned a bit. Hope others find it useful.



Tom McQuiggan

Rechargeable Li-ion, Li-Poly and Lithium Iron Phosphate (LiFePO₄) batteries differ from the standard Lithium batteries in that the latter are not rechargeable. The lithium-ion batteries Li-Ion usually have a nominal voltage of 3.6V or 3.7V., The LiFePO₄ have a nominal voltage of about 3.2V or 3.3V and the lithium-polymer Li-Po batteries have a nominal voltage of 3.6V per cell. With Li-ion and LiPo batteries the recommended per-cell safety zone is usually between 3V (fully discharged) and 4.2V (fully charged), although they can normally discharge down to about 2.8V without any problems.

Discharging below that level may cause irreversible/irreparable damage. Therefore, these batteries often feature a built-in safety mechanisms, preventing over-discharging.

Conversely, overcharging can also be dangerous. The Li-Po batteries have lower number of re-charging cycles than **LiFePo₄** (1000@0.2C rate, IEC Standard). The projected/estimated life of a Lithium-Ion battery is approximately 3 years from production.

The **LiFePO₄** batteries exhibit slightly different properties: They have a bit lower operating voltage of about 3.2V – 3.3V, the minimum discharge voltage is 2.8V and the maximum charged voltage is 3.6V. The **LiFePO₄** is a kind of Li-Ion rechargeable battery intended for high power applications, such as EV cars , eBikes, electric bike, Power Tools, RC or HAM Radio.

The **LiFePO₄** batteries have more constant discharge voltage and are considered to offer better safety than other Lithium-based batteries. Other advantages of the Lithium-based rechargeable batteries include the ability of a much faster recharge and higher discharge rates than other chemistries mentioned and usually higher number of recharge cycles (>2000@0.2C rate, IEC Standard) , meaning longer life when not fully discharged, but its energy density is lower than normal Li-Ion cell (Li-Co). **LiFePO₄** life expectancy is approximately 5-7 years.

The S's:

A single LiPo cell has a nominal voltage of 3.6 volts. Since battery packs come in different sizes and voltages, it is more convenient to denote the voltages by saying 10S rather than 36 volts. To find out the nominal voltage of any pack, take the number before the S and multiply it by 3.6. This will render the voltage for the pack. So, a 13S pack will have a nominal voltage of 46.8 volts.

A single LiFePO₄ cell has a nominal voltage of 3.3 volts. Since battery come in all sizes, it is more convenient to denote the voltages by saying 12S rather than 36 volts. To find out the nominal voltage of any pack, take the number before the S and multiply it by 3.3. This will give you the voltage for the pack. So a 16S pack will have a nominal voltage of 52.8 volts

LiPo / Li-Ion				LiFePO4		
Nominal Voltage	No. of cell S	Voltage S x 3,6V	Charging Voltage S x 4,2V	No. of cell S	Voltage S x 3,3V	Charging Voltage S x 3,6V
12 V	3	10,8	12,6	4	13,2	14,4
24V	4	14,4	16,8	8	26,4	28,8
36V	7	25,2	29,4	12	39,6	43,2
48V	10	36,0	42,0	16	52,8	57,6
60V	13	46,8	54,6	20	66	72,0
72V	16	57,6	67,2	24	79,2	86,4
	19	68,4	79,8			

The P's:

To increase the capacity of the battery pack, additional LiPo cells can be added in parallel to keep the voltage constant while doubling the capacity. Let us take an example of a 10S LiPo with a total capacity of 2000mAh. Now, to get 4000mAh, we have to take another 10S/2000mAh pack and wire it parallel to the first pack. This would then be denoted by 10S2P, where the P indicates how many 10S packs there are in that battery.

Ah: The capacity of the battery pack is stated as a rate rather than a quantity. 10Ah means that it will take a 10A load an hour to drain that pack. So if we applied a 20A load to the pack, it would be drained in half an hour, disregarding internal losses and such. To make a pack last longer, one may want one with a large Ah number.

One could also increase the available capacity by taking two identical LiPo and wire the leads in parallel, positive to positive and negative to negative, before connecting it to their appliance. That would double the capacity while maintaining the voltage. If we wired the leads in series, one positive lead of battery 1 to one negative lead of battery 2, we would end up with twice the voltage at the same capacity. This is useful when we only have 5S batteries at hand and a 10S battery is needed. When combining batteries, the participating batteries must all be identical in voltage and capacity.

C Ratings:

The first set of C ratings on a LiPo tells us how fast the battery can be discharged. 20C/30C translates to (maximum constant discharge rate) / (Burst discharge rate). Burst can last for up to about 10 seconds. To figure out how many amps this rate is, you need to know the capacity of the battery pack. If the pack says that it has 10Ah, take that number before the Ah to get the number of amps. In this case, it would be 10.

That is your rating of 1C for that pack. Therefore, if the pack says it can safely continuously discharge at 20C, then that means it can supply a constant 100 amps of current. The burst rate would then be 200 amps for 10 seconds. The smaller C rating following the first pair is the charge rate. LiPos must be charged at a much slower rate than its discharge rate. Most packs are good with up to 2C charge rate (for this example, it would be 20 amps).

Charging - Discharging rates :

To charge a LiPo pack, it is highly encouraged to use a charger that supports individual cell balancing or a charger and a battery pack with a BMS. This way, all the cells come off the charger at equal voltages so they all charge equally. When using that charger, you will notice that the

charging current drops off as the pack nears its maximum charge, 4.2 volts for one Li-Po cell and 3.6V volts for one **LiFePO4** cell. This is done so the charger does not overcharge the cells which will cause a fire. Determined in the same fashion as the C ratings for discharge, the C rating for charge tells you at what amperage you can safely charge your battery. This information is generally listed on the back of the battery with all the safety information. For a 10 Ah battery, 2C means that it can be charged at 20A (2*10A).

Proper Charging:

It's important to use a LiPo compatible charger for LiPos and **LiFePO4** compatible charger for **LiFePO4** batteries. They charge using a system called CC/CV charging. It stands for Constant Current / Constant Voltage. Basically, the charger will keep the current, or charge rate, constant until the battery reaches its peak voltage (4.2v/ 3,6V per cell in a battery pack). Then it will maintain that voltage, while reducing the current. On the other hand, NiMH and NiCd batteries charge best using a pulse charging method.

Charging a LiPo / **LiFePO4** battery in this way can have damaging effects, so it is important to use a LiPo / **LiFePO4** compatible charger as appropriate.

Internal Resistance (IR):

Internal Resistance is a measure of the difficulty a battery has delivering its energy to a motor and speed controller. The higher the number, the harder it is for the energy to reach its destination. The energy that doesn't "go all the way" is lost as heat. So the internal resistance is a kind of a measure of the efficiency of the battery. However, there is a correlation between the C-Rating of a battery and the internal resistance of that battery. In general, batteries with a higher C-Rating also have a low internal resistance.

As a general rule:

- per cell rating between 0-6 mΩ is as good as new
- Between 7 and 12 mΩ is reasonable
- 12 to 20 mΩ is where the signs of lower capacity start to be observed
- and beyond 20mΩ per cell, one may want to start thinking about retiring the battery pack

BMS:

A battery management system (BMS) is an electronic regulator that monitors and controls the charging and discharging of rechargeable batteries. The BMS comes included in battery pack. Battery management systems may be as simple as electronics to measure voltage and stop charging when the desired voltage is reached. At that point, they might shut down the power flow; in the event of irregular or dangerous conditions they might issue an alarm.

A more complex BMS monitors many factors that affect battery life and performance as well as ensuring safe operation. They may monitor one-cell or multi-cell battery systems. Multi-cell systems may monitor and control conditions of individual cells. Some systems connect to computers for advanced monitoring, logging and more. A more complex BMS also monitors the temperature of a battery pack and can "cut-off" when the battery temperature is too high while charging or discharging.



The small battery-tester above costs just a couple of £, so it's worth buying 2 or 3 so that you can keep one handy say in the garage, in your shack and in your go-pack. You simply connect it to your battery's Balance Connector and it will cycle through some figures...

- . Overall battery voltage
- . Cell-1 voltage
- . Cell-2 voltage
- . Cell-3 voltage
- . Cell-4 voltage, etc

This is a convenient way to find out if your battery is not only charged, but also balanced! Just be aware that when you plug it in, there is a **loud beep** which will probably give you a bit of a fright, LOL.

Care: ·

A LiPo / Li-Ion cell should NEVER be discharged below 3.0V

- A **LiFePO4** cell should NEVER be discharged below 2.8V
- Charge the battery pack fully after every use

Storage:

- Always store the batteries fully charged.
- When not using the cell pack for an extended period of time, remove it from the appliance and store in a place with low humidity and low temperature

- Inspect and Recharge the battery every few months

UPDATE: Since posting this, I've had one person saying they should be stored at 50%, another said 70% and another at 80%. Clearly, the storage issue is as clear as mud and everyone has a different opinion. So decide for yourself. Personally I think I'll drop my LifePO4 to around 3.2V per cell if I'm not going to be using them for a while.

Please make a note of NIGEL BARKER's advice in the "Comments" section about these batteries being very much affected by temperature. The batteries don't like extremes of temperatures and you have to compensate for extreme variances.

In high temperatures (forget the UK, LOL) you should probably drop the voltages of stored batteries. In freezing temperatures (yes, UK) the batteries may resist charging!

Safety:

There are tons of safety precautions related to the use, storage, and disposal of Lithium Polymer batteries. Some safety precautions: Each one must be taken seriously since these high-power batteries will pack a punch when not used correctly. There are records of many things - from cars to entire houses - that have burnt down due to the misuse of LiPos.

Never leave charging batteries unattended. If a battery goes wrong, you will have an incredibly intense chemical fire which produce massive amounts of smoke too. Google "Lipo Battery Fires". I charge mine in a steel cabinet in the garage and each battery goes in a fireproof bag. **LifePO** are much more stable than Lipo but still need treating with respect - especially the bigger batteries!

Never overcharge past 3.6 or 4.2 volts per cell. Over discharging will kill the pack. Drawing too much current from the pack can cause it to puff up and catch fire. Always use a proper BALANCE CHARGER like the Turnigy Accucell 6



REMEMBER:

1. Do not charge or use batteries if the battery ...
 - is punctured or damaged
 - A. is bloated, expanded, swelling or otherwise deformed
 - B. has any cell with a voltage below recommended value

2. **Do not charge batteries unattended.** Monitor batteries during charging for popping, hissing, smoke, sparks or fire. Also monitor the battery for any swelling or other deformities. Disconnect the battery from your charger immediately.
3. **Do not charge batteries near flammable material. Charge batteries in a fire-proof container. Do not charge batteries while they are inside a device or inside a carry-case/rucksack.**

Personally, I charge my batteries in my garage. I don't want to start being too paranoid about all this, but I do believe it's better to be safe than sorry! If (and it's a big if), a battery decided to go bad and catch fire, I want to be in a position where the fire can be contained and allowed to burn out without the risk of spreading and hurting someone.

So in my garage I have an old steel filing cabinet which I got from work (they were throwing it out). In the top drawer I place my batteries in their fireproof bags. Nothing else goes in that drawer!

I keep my charger on the outside of the cabinet and simply drop the charging lead into the top drawer. IF a battery was to go bad during charging (or storage), the fire (**it's actually a chemical fire - a very fierce one**) would be contained within that safe area.

Of course there would be extremely dense smoke billowing out, but there's nothing you can do about that, other than to let it escape through a wide-open garage door.

LET'S NOT BLOW ALL THIS OUT OF PROPORTION THOUGH because LifePO batteries are infinitely more safe and stable than the old Lipo batteries. And there's a large degree of sensationalism on YouTube driven by young lads who find it amusing to short them out for a firework display.

CORRESPONDENCE

Thanks to Rick Danby VE3BK and Mike Kassay VE3MKX for the following amusing anecdote.

You Might be Addicted to Ham Radio if:

1. When you look at a full moon and wonder how much antenna gain you would need.
2. When a friend gets a ride from you and remarks that you have a lot of CB's in your vehicle, it turns in to an hour long rant on how ham radio is not CB radio.
3. When someone asks for directions, you pause, wondering if long or short path would be best.
4. When you can look at a globe and be able to point to your antipode (and you know what an antipode is).
(I do now, but I didn't know what an antipode is. Cool antipode map at <http://www.antipodemap.com/>)
5. Your cell phone ring tone is a Morse code message of some kind.
6. You have accidentally said your Amateur Radio call sign at the end of a telephone conversation.

7. Your favorite vacation spots are always on mountain tops.
8. You notice more antennas than road signs while driving your car.
9. You have driven onto the shoulder of the road while looking at an antenna.
10. Porcupines appear to be fascinated with your car.
11. If you ever tried to figure out the operating frequency of your microwave oven.
12. When you look around your bedroom of wall to wall ham gear and ask: Why am I still single?
13. The local city council doesn't like you.
14. You think towers look pretty.
15. Your family doesn't have a clue what to get you for Christmas, even after you tell them.
16. Your HF amplifier puts out more power than the local AM radio station.
17. The wife and kids are away and the first thing that goes through your head is that no one will bother you while you call "CQ DX" a few hundred times.
18. When you pull into a donut shop and the cops there on their coffee break ask if they can see your radio setup.
19. You refer to your children as your "Harmonics".
20. Your girlfriend or wife asks: "You're going to spend \$XXXX on what???"
21. You actually believe you got a good deal on eBay.
22. When you see a house with a metal roof, and your only thought is what a great ground plane that would be.
23. You have pictures of your radio equipment as wallpaper on your computer's desktop.
24. Every family vacation includes a stop at a Ham radio store.
25. The first question you ask the new car dealer is: "What is the alternator's current output"?
26. You buy a brand new car based on the radio mounting locations and antenna mounting possibilities.
27. You have tapped out Morse code on your car's horn.
28. A lightning storm takes out a new Laptop, Plasma TV, and DVD Recorder, but all you care about is if your radios are okay.
29. Your wife has had to ride in the back seat because you had radio equipment in the front seat.
30. Your wife was excited when you were talking about achieving that critical angle, but very disappointed when you finally did.
31. During a love making session with your wife, you stop to answer a call on the radio.

32. Your wife threatens you with divorce when you tell her that you are going on a "fox" hunt.
33. Talking about male and female connectors makes you feel excited.
34. You dream of big, comfortable, knobs, but not on women.
35. You always park on the top floor of the deck, just in case you might have to wait in the car later.
36. When house hunting, you look for the best room for a radio shack and scan the property for possible tower placement.
37. When house hunting, you give your realtor topographical maps showing local elevations.
38. The real estate agent scratches his head when you ask if the soil conductivity is high, medium, or low.
39. You have Ham radio magazines in the bathroom.
40. When your doorbell rings, you immediately shut down the amplifier.
41. Fermentation never enters your mind when "homebrew" is mentioned.
42. Instead of just saying no, you have said "negative".
43. You have used a person's name to indicate acknowledgement.
44. You become impatient waiting for the latest AES catalog to arrive.
45. You have found yourself whistling "CQ" using Morse code.
46. You always schedule the third weekend in May for vacation.
47. You walk carefully in your back yard to avoid being close-lined.
48. You have deep anxiety or panic attacks during high winds or heavy ice.
49. You and the FedEx/UPS men are on a first name basis.
50. You really start to miss people that you've never seen.
51. Your exercise machine is a Morse code keyer.
52. You walk through the plumbing section at the hardware store and see antenna parts.
53. Your neighbors thought you were nuts when you ripped up your lawn to bury chicken wire.
54. Your next door neighbor thinks that your wife is a widow.
55. Your wife has delivered meals to your Ham shack.
56. If you sold all your Ham radio equipment, you could pay off your mortgage.

ERC Elmira Radio Club Inc. - Meeting Minutes

April 27, 2022

<u>Attendance - Members</u>	<u>Attendance - Officers</u>
Bill Reid VA3QB	Frank Monteith VA3FJM – Vice-President
Bob Koechl VE3IXX	Paul Curtin VA3PDC – Treasurer
Bruce McLellan VE3QB	Kirk Sinclair VA3KXS – Secretary
Gary Kornstein VE3JGK	
Graham Bauman VE3BYP	<u>Guests:</u>
Jack Sinclair VA3WPJ	None
James Clayton VA3JIC	
Jim Heidmiller VE3JMU	
Judd Hodge N4WXU/VE3WXU	
Ken Buehler VE3KCY	
Linda Willis VE3CZ	
Marianne Lelieveld VE3MXT	
Mike Willis VE3FE	
Rich Clausi VE3DCC	
Teresa Clayton VA3LTH	
Thomas Daniel VA3VRA	
Tom Mahony VE3DXQ	
Tony Lelieveld VE3DWI	

Meeting Location: Google Meet

Meeting Minutes

1. Call to Order:

- Meeting was called to order by Vice-President, Frank Monteith VA3FJM at 7:35 pm and he welcomed everyone present.

2. Roll Call:

- Kirk VA3KXS recorded those present and it was noted quorum had been attained.

3. Approval of Agenda:

- Frank VA3FJM noted that the agenda had been circulated prior to the meeting.
- MOTION to approve the agenda as circulated.

Motion By: Frank Monteith VA3FJM

Carried**4. Presentation**

- a. None.

5. Secretary Report: Presented by Kirk Sinclair VA3KXS.

- a. Correspondence Received:
 - i. Request from INCommunities for an update of the Elmira Radio Club record in their database. I confirmed that our information has not changed.
 - ii. The link to our record is:
<https://waterloo.211centralsouth.ca/detail/73442071/?searchLocation=Waterloo&searchTerms=Elmira+Radio+Club&latitude=43.466667&longitude=-80.51667&sd=100>.
- b. Minutes of the March 23, 2022 meeting were emailed to members on the same day.
 - i. No corrections were noted.
- c. *MOTION to approve the minutes of the March 23, 2022 meeting.*

Motion By: Kirk VA3KXS

Carried**6. Treasurers Report:** Presented by Paul Curtin VA3PDC

- a. Details of transactions for the month of March were provided verbally.
- b. Reminder that dues for the upcoming year were payable in March and are now past-due. Members are required to renew prior to the AGM, or be removed from the Club Roster.
- c. *MOTION to approve the financial statements for March 2022.*

Motion By: Paul VA3PDC

Carried**7. Presidents Report:**

- a. None this month.

8. Committee Reports:

- a. Summer Field Day Committee - Bill Reid VA3QB
 - i. Bill spoke with Wally who owns the airport on Hwy 86 & Northfield (SW corner) and received approval to use this location for field day.
 - ii. We can arrive on Friday and leave Sunday. Trailers are permitted on the tarmac with access through the gate via means of a third lock.
 - iii. We need to have an estimate of how many trailers we may have and organize some sort of BBQ. Everyone will be welcome to visit. Final details will be worked out before the June 22nd meeting.
- b. Nomination Committee - Rich Clausi VE3DCC / Tom Mahony VE3DXQ
 - i. Tom VE3DXQ presented the list of nominees assembled by the committee:
 - 1. Ted Rypma VE3TRQ – President

2. Frank Monteith VA3FJM - Vice President
 3. Kirk Sinclair VA3KXS – Secretary
 4. Paul Curtin VA3PDC – Treasurer
 5. Wes Snarr VE3ML – Trustee
- ii. Three calls were made for additional nominees for each position, with no responses.
 - iii. This will be the final slate for elections during the AGM in May.

9. Unfinished Business

- a. Repeater Technical Committee - Bill Reid VA3QB / Tony Lelieveld VE3DWI
 - i. Feed Mill
 1. Repeaters at Feed Mill are offline due to electrical work happening – Tony is running the nets by broadcasting on the reverse frequency (so effectively Tony is the repeater for now).
 2. There is some discussion of reconfiguring the EchoLink nodes to run on Simplex, details are being discussed via Groups.io
 3. Bill called the electrical contractor - Zeigler Electrical is redoing a lot of the wiring on the site. They will be re-running the conduit out there, with no time frame for completion due to other jobs and weather. They say they will plug in the repeaters, but we may have to check.
 4. Rich VE3DCC agreed to periodically check if the work has been completed and ensure the repeaters are plugged in.
 - ii. Fire Hall
 1. The repeater normally at the Fire Hall is offline since our 3rd repeater is being refurbished right now.
 - iii. Power supply from Al MacDonald VA3TET (SK)
 1. Frank and Tony were called to retrieve a power supply from Al's garage. If it is serviceable, it could be a good option for one of our repeaters.
- b. Wednesday Coffee get togethers
 - i. John Linnerth VE3OVO cannot commit the room in his building every week so Bill has suggested meeting at Angel's on Thursdays, except for one week of the month to be held at a different location. Tomorrow will be at Stacked in Guelph. The group will be reviewing if moving the location around is a good idea, details will be posted to Groups.io.
- c. Club Apparel Opportunity – Bill VA3QB -i.Deferred until we can meet in person.

10. New Business i. None.

11. Announcements

- a. The next meeting will be held Wednesday, May 25, 2022 and will be our Annual General Meeting. It will most likely be held via Zoom.

12. Adjournment: MOTION to adjourn at 8:14 pm by Frank Monteith VA3FJM—Carried