

## From the NCARC President

*Joe Hawley KDØTYU*

[president@ncarc.net](mailto:president@ncarc.net)

The last few months have been exciting for NCARC. We have started to put our programs together as before the pandemic. On April 2<sup>nd</sup>, we had our second Rosin Corp class, where we built a little light fixture that was voice-activated. It was an exciting project, and everybody got something out of it. I know I certainly did, and we plan to do our third class sometime near June 1st, where we should have a more radio-related project.

We're starting our test sessions again; our next one will be on April 23<sup>rd</sup>. However, I sent out a note, and a week later, the class was filled, so I'm very sorry. If you need a test, we can help you out, contact me directly, and we'll set up a test session for you individually, or if you have a group for testing, we can also facilitate that.

I've been sending out notes from the Longmont Amateur Radio Club, and my good friend Chuck is putting together exciting projects. If you have a minute, stop by their [website](#) and check out some of the exciting things they're doing.

We are now thinking about having a Hamlette class for newly licensed HF people. I know that when I jumped from UHF/VHF to the HF world, it was different from anything else I had encountered. We plan to put together a seminar where we can discuss various things that you need to know when you get on HF, and then I will have a few radios there so you can try your new skills and maybe show you some tricks that should be much fun.

Well, that's all; for now, enjoy the great weather and remember our Elmer group. If you have issues with building and antennas or installing equipment inside your house, let us know we're here to help.

## Public Affairs Office

*Dave Winnett WØDDZ*

[pao@ncarc.net](mailto:pao@ncarc.net)

Numbers as of April 12, 2022

### YouTube

Views (last 28 days): 2,162

Watch time (hours, last 28 days): 291.8

Subscribers: 2,271

New Subscribers (last 28 days): 26

### Facebook

Members: 500

New Members: 1



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## Club Meeting and Speaker

Next Meeting

Saturday, April 16, 2022

**9:00 am** socialize, **9:30 am** club meeting, followed by Show and Tell:

**LIVE and IN PERSON** at  
The Golden Corral  
1360 Sculptor Dr, Loveland CO 80537

**PLUS**

Zoom streaming  
All members will receive a link to the online broadcast

If you don't receive a link by Friday before the meeting, please email [treasurer@ncarc.net](mailto:treasurer@ncarc.net)

You choose what you feel comfortable doing: attend in person or online.

**Topic:**

**Intro to ARES**

**Speaker:**

**Joe Hawley**

## Get the Goods!

The [NCARC Store](http://www.ncarc.net) is now open for business! We have stickers, t-shirts, patches, water bottles and keychains. We still have monogrammed clothing too.

<http://www.ncarc.net/?q=node/424>

# Treasurer's Report

Darren Kalmbach KCØZIE

[treasurer@ncarc.net](mailto:treasurer@ncarc.net)

## February 2022

Account	Checking	Raffle	Savings	PayPal	Total
Beginning Balance	\$5,861	\$2,329	\$629	\$7,615	\$16,434
Deposits	\$629	\$0	\$0	\$693	\$1,322
Transfers	\$0	\$0	\$0	\$0	\$0
Withdrawals	\$1,970	\$0	\$10	\$115	\$2,095
Ending Balance	\$4,520	\$2,329	\$619	\$8,193	\$15,661
Outstanding Items	\$0	\$0	\$0	\$0	\$0
Net Balance	\$4,520	\$2,329	\$619	\$8,193	\$15,661
Net Change	-\$1,340	\$0	-\$10	\$578	-\$772

**Expenses:** Storage, HamFest, RR Battery Parts

**Revenue:** Memberships, Donation

## March 2022

Account	Checking	Raffle	Savings	PayPal	Total
Beginning Balance	\$4,520	\$2,329	\$619	\$8,193	\$15,661
Deposits	\$154	\$0	\$0	\$189	\$343
Transfers	-\$500	\$0	\$500	\$0	\$0
Withdrawals	\$708	\$0	\$10	\$8	\$726
Ending Balance	\$3,466	\$2,329	\$1,109	\$8,374	\$15,278
Outstanding Items	\$0	\$0	\$0	\$0	\$0
Net Balance	\$3,466	\$2,329	\$1,109	\$8,374	\$15,278
Net Change	-\$1,054	\$0	\$490	\$181	-\$383

Project	March Spent	Previous Spent	Total	Budget
115 Replacement	\$170.12	\$0.00	\$170.12	\$1,650.00
HT 220 installation	\$284.47	\$0.00	\$284.47	\$300.00
Optical data links to Buck. MV	\$90.35	\$0.00	\$90.35	\$100.00

**Expenses:** Storage, Rosin Corps, HT220 parts, HT 115 fix, Buckhorn MC optical

**Revenue:** Memberships, Rosin Corps

## Membership Activity:

February 2022: 178 (30 new)

March 2022: 190 (12 new)

February 2021: 200

March 2021: 219

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## Nominations for Club Officers

Our April club meeting is when nominations for board positions occurs. Are you interested in a position on the board? If you are interested, please come prepared to tell the group why and what you want to do. The elected positions are as follows.

Officers (forming the Executive Committee):

President, Vice President, Secretary, Treasurer, Station Trustee

Elected Officials:

Technical Committee Officer, Public Affairs Officer, Board Member at Large

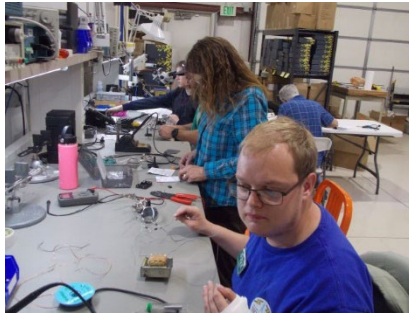
The Officers and Elected Officials form the Club Board.

Elections will occur in May, and the post is assumed on July 1, for a term of 2 years.

**World Amateur Radio Day (WARD)** is April 18 and is celebrated worldwide by radio amateurs and their national associations, which are organized as member-societies of the International Amateur Radio Union (IARU). For more information, see: <http://www.arrl.org/world-amateur-radio-day>

## Rosin Corps Part Two April 2, 2022

Our second class a great success! Thanks again to Bob Schmid for teaching us proper techniques. We built a kit that resulted in a wee board with LEDs that light up in response to sound. We soldered a microphone, diodes, capacitors, resistors, a chip, jumpers. It was a very fun class and ending up with something that could actually function (if we did it right!).



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## Tech Report

**James Cizek, KIØKN**

[techchair@ncarc.net](mailto:techchair@ncarc.net)

### April 2022

#### Horsetooth

The 145.115 repeater was placed back online a few days ago and is working normally. While I was there, I found some issues that were likely contributing to the intermod we used to hear occasionally on that repeater and fixed them. I also found issues with both the APRS digi/iGate and the Winlink station. Both were rectified.

I did manage to forget a part at home when I took the repeater up, so the new 145.115 is running on AC only. It will have DC backup on the next trip up. I will also be re-deploying the 224.520 repeater on the next trip.

#### Buckhorn

I have a fully programmed replacement microwave dish/radio for the 1 remaining link that is still running on copper Ethernet. We will replace that dish and cable with one that can run on fiber optic cable and will run a fiber optic cable down to the router. The FM broadcast stations on that hill are so powerful, they cause tons of Ethernet errors, even on our shielded cables. Moving to fiber optics solves this problem. I will also mount 1 additional security camera there, looking at the entrance to the building as this was a request from Poudre Valley REA, our landlord.

#### UNC

I have restored service to the Greeley repeater and was able to re-establish the microwave links to it. It went offline entirely. When we got there, we found the rooftop tripod that was holding the mast that the dishes are on had broken loose in the wind and spun about 30 degrees. The dishes to both Horsetooth and Buckhorn were re-aimed, and the breakers that tripped and took the repeater offline were reset. Some work was done there between visits and our Buckhorn dish now looks directly through another antenna system causing scattered signals. We will be placing a "gravity mount" system on the roof and will move our antenna and dishes to that soon. Moving it over about 6 ft will solve the path problem.

#### Phone Patch Project

I am still working on the phone patch, I hope to have the final issues worked through there soon. It's been a challenging project.

#### A reminder

As SKYWARN season approaches, during a SKYWARN net, the Grover 449.600 repeater will be unlinked from Horsetooth 447.275 and be linked to the 447.700 and 146.625 Buckhorn repeaters for greater coverage out East for spotters. When the net stands down, the link will return to Horsetooth. There are now voice announcements made on all the repeaters when that change occurs.

#### A side note

Between some equipment donations I've made and partnered with the Loveland Repeater Association, we've rolled out a new VARA FM node on Namaqua hill above Loveland. The frequency is 144.970. It supports Winlink and is very fast compared to packet or ardop. Give it a try!

I've updated the NCARC website with correct repeater and packet information. I realize that our "other repeaters" page is terribly out of date and I'll be working on that shortly!

If spring ever arrives, we'll have some cleanup/maintenance parties at a few of our sites. We need to get some light bulbs changed, siding nailed down, stuff picked up, etc. Watch for volunteer announcements on the volunteers email list if you'd like to help out.

#### Interference:

No reports of malicious interference.



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## Upcoming Ham Radio Events

**Quad-Rock 50:** May 7, 2022, Contact Darren, KC0ZIE

**Ride to End ALZ:** Jun 12, 2022, Contact Darren, KC0ZIE

**ARRL Field Day:** Jun 25, 26, 2022, Contact Greg Ella, N0EMP

**Never Summer 100k:** Jul 29 to 31, 2022, Contact Wayne, ADOKE

**Blue Sky Marathon:** Oct 15, 2022, Contact Darren, KC0ZIE

**NCARC HamFest:** Jan 21, 2023, Loveland, CO

### Membership Renewal

Please renew your membership by going [here](#) on our website and either:

- Fill out and complete the on-line PayPal form
- or
- Download, print, fill out and mail in the [registration form](#) along with your check

### What Radios Are They Using?

The Police released their debut album *Outlandos d'Amour* in 1978 and the second track was *So Lonely*. The [music video](#) (pre-MTV) follows the band through the streets and on a subway. And they sing into handheld radios for the entire thing. What kind of radios are these? What's with the earbuds? Your responses/answers will be published in the next *Tri-Bander*.

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## In case you missed it

### New FCC Application Fee Will Not Apply to Amateur Radio License Upgrades

The FCC released a [Public Notice](#) on March 23, 2022, stating that the amateur radio application fees, including those associated with Form 605 application filings, would become **effective on April 19, 2022**. The Federal Communications Commission's authority to impose and collect fees is mandated by Congress. Read more at <http://arrl.org/fcc-application-fee>

FCC has clarified in response to an ARRL request that the new \$35 application fee will not apply to most license modifications including those to upgrade amateur radio licensee's operator class.

<http://www.arrl.org/news/new-fcc-application-fee-will-not-apply-to-amateur-radio-license-upgrades>

## Obituaries

### Former NCARC Treasurer

Norm Miller passed away on January 29, 2022. He served as Treasurer of NCARC in the early '80s, for many years.

He is survived by his wife Joan, daughter Lynn Miller and grandchildren Avery, Hayden, and Chloe; daughter Diane Davis (Mike) and grandchildren Megan, Melissa, Maia, and Nadia; and his sister Kathy Converse (Randy) of Madison, Wisconsin; and many nieces and nephews.

Due to ongoing Covid and travel concerns, a celebration of Norm's life will be held on June 5, 2022, at the Anheuser Busch Biergarten Event Center in Fort Collins, Colorado, from 1:00 to 5:00 pm. We look forward to everyone's best Stormin' Norman stories.

### Celebration of Life

There will be a celebration of life for James Ellis McDaniel (d. 25 Dec 2021) and Charlotte Sue McDaniel (d. 17 Sept 2021) on June 11, 2022, 11 am to 4 pm at Dwayne Webster Veterans Park, Shelter No. 2, 401 W 13th St, Loveland, CO 80537. Food and drinks will be provided.

### From Ham Radio to Creating Ethernet

Here is the [obituary](#) of David Boggs, co-creator of Ethernet. He got his start with ham radio and is a good example of how ham radio can inspire great things.



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## Field Day 2022, 25 & 26 Jun 2022

We'll meet on property close to Greg Ella's (NØEMP) house. The address is 38 Regina Dr, Fort Collins.

The noise levels are very good. One issue is that we are within the controlled airspace for the Loveland Fort Collins airport (KFNL), so any drone flying will have to be coordinated through ATC.

There is also a low hanging telephone or cable line across most of the front of the property, that could be an issue with high vehicles like surplus ambulances or RVs. We plan to flag this line, and there is a way to get around it and access the main property of the lot.

As with the past two years, Greg does not plan to personally organize any group meal, but if someone wants to set something up, please feel free.

### Colorado ARES Members – Event Sign-up

Please check your calendars and sign up for the 2022 Dirty30 Ultramarathon

**Who:** Colorado ARES Members (All Districts)

**When:** Friday, 03 Jun 2022

**Where:** Golden Gate Canyon State Park, Golden, CO

**Mission:** Runner safety and accountability, Golden Gate Canyon State Park Support

There is also a need for set up assistance on Thursday, 02 Jun 2022.

This is in service to the Golden Gate Canyon State Park. As such, this event is considered an AuxComm Unit deployment. However, Colorado ARES members and encouraged to signup and ARES participation is needed. Please use this link to access the 2022 Dirty30 signup form: <https://forms.office.com/r/WVCa3w6p9u>

The same signup form can be accessed on the [coloradoares.org](http://coloradoares.org) website and is contained in the 2022 Dirty30 Post. [Colorado ARES website](http://coloradoares.org) A distribution list will be created from the signup form entries and event/deployment details will be sent as they become available to those who register for the event.

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## More learning opportunities:

Rocky Mountain Ham University has several classes on the schedule. Go to <https://www.rmham.org/rocky-mountain-ham-university/> for more information and to sign up for a class. BONUS: past presentations are also available.

## High Flying Ham Radio

Are you interested in **high altitude balloons**? On Saturday, 5/14/2022, Rocky Mountain Ham University will present a course on “Balloons and Things Relating To”

Rob N0RPF and others from Edge of Space Sciences will present on “balloons, pico-balloons, and other high flying interests.” For more information, see the RM Ham website.

<https://www.rmham.org/rocky-mountain-ham-university/>

## Do you use WINLINK?

For faster speeds, you can use VARA FM (software) with Winlink Express. A group order is being placed, which will get us a discount on the price. If you are interested in purchasing, please contact Joe KD0TYU [president@ncarc.net](mailto:president@ncarc.net) right away to get on the list.

### From the Editor

Ann Donoghue KØARD  
[newsletter@ncarc.net](mailto:newsletter@ncarc.net)

No, my new radio is not connected to an antenna yet, but it will be soon!

I apologize for the erratic releases of the *Tri-Bander*. Sometimes life just happens. Our goal is one newsletter every month. We'll try to meet that goal!

Please send your ideas for topics, your articles, your comments and your “Letters to the Editor”. We welcome your thoughts, ideas and opinions on anything Ham!