

# ***BOSQUE BEACON***

***Newsletter of the Bosque Amateur Radio  
Club of New Mexico***  
***bosquearc.com***



**FEBRUARY 2024**

EDITOR, JERRY ACETO K6LIE    **CLUB MEETING FEBRUARY 3 , 10 AM**    Email: [jaaceto@gmail.com](mailto:jaaceto@gmail.com)

## **President's Corner - Jerry Aceto K6LIE**

Greetings everyone!

Last month was a busy month for our club. We were visited by Gino Gutierrez, a reporter for the Albuquerque Journal. He heard of our work regarding our communications project with the Ukraine and was interested in doing an article. After several meetings, the result was a very flattering article appearing in the Metro & NM section of the paper, January 18 edition, which included a picture of Bill Kent, Larry Elkin, Art Nichols, Terry Zipes and myself. In case you missed the article, here is a link to it:

[https://www.abqjournal.com/good\\_news/the-bosque-amateur-radio-club-is-connecting-people-in-ukraine-heres-how/article\\_80d1342a-b4c3-11ee-9350-5752180bf928.html](https://www.abqjournal.com/good_news/the-bosque-amateur-radio-club-is-connecting-people-in-ukraine-heres-how/article_80d1342a-b4c3-11ee-9350-5752180bf928.html)    (Link used with permission of the Albuquerque Journal)

This project started about a year ago when Member Art Nichols was approached by his brother, Joe Nichols. Joe knew Art was a ham radio operator and approached him on coming up with some communications ideas he could implement to help with health and welfare communications with his Care4Ukraine project. That's where the club got involved. We came up with some ideas on radios and antennas that Joe could use.

See pages 4 and 5 of this newsletter for a more comprehensive explanation of our program.

The club participated in Explora Adult Night on January 19. We had a very nice compliment of members on hand to introduce Ham Radio to the public. I want to thank all that helped out!

Looking forward to seeing you all at our next meeting on February 3rd! 73.  
Jerry K6LIE

# Bosque Amateur Radio Club



**N5BRC**  
bosquearc.com



## Club Net

**The Bosque ARC** hosts a **Club Net** *Every Saturday Morning at 10:00 am local time except for the first Saturday of the month* when we meet in person for our club meeting.

146.900 (- 600 kHz) pl 67.0

442.450 (+ 5000 kHz) pl 67

449.550 (- 5000 kHz) pl 71.9

## Club Meetings

- \*1st Saturday of the Month, 10 AM
- \*Always a program that deals with Ham Radio
- \*APD NW Area Command on Ellison, across from Cibola HS

## Activities

- \* School Visitations to Promote S.T.E.M.
- \* Field Day Activations
- \* Gatherings for Breakfast,
  - \* Thursday mornings at 7 AM,
  - \* Flying Star, 10700 Corrales Rd

**WELCOME NEW MEMBERS!**

Whether you are a new ham, a seasoned old timer, or just thinking about becoming a ham, I would like to invite you to our meetings to take in our presentations, join us for breakfast on Thursday mornings, or participate in any of our activities. If you like what you see and hear, we would love to have you join our club. If you have any questions regarding ham radio, we can answer them.

Hope to see you at our meetings!  
73.

Jerry Aceto K6LIE  
President, Bosque ARC

**VE TESTING**

If you would like to upgrade your license, or take your first amateur radio test, Mathias Gibbens, K0WBG, holds licensing exams after our regular club meeting on the first Saturday of the month. Testing starts around 12:30. If you would like to test or know anyone else that would like to test, contact Mathias at AbqRRVET@gmail.com to sign up.

**CLUB MEETING ADDRESS**

APD NW Command Center, 10401  
Cibola Loop NW, Albuquerque,  
NM 87114 (across the street from  
Cibola High school)

**CLUB ADDRESS**

Bosque ARC  
1023 Purple Aster Dr.  
Bernalillo, NM 87004

**CLUB REPEATER — 444.200 (+) 67 Hz PL**

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## **Bosque Amateur Radio Club Ukraine Mobile Radio Program**

The initial effort for the Bosque Amateur Radio Club (BARC) Mobile Radio program was to focus on the VHF band and to procure 10 ICOM 2300H and 10 Yaesu 3100R mobile radios for deployment in Ukraine. However Doctors of the World procured 12 ICOM 2300H and 10 Yaesu 3100R before BARC was able to respond. The vendor provided cables but no VHF antennas. Over the coming months the need for portable hand held radios became apparent. After discussing the issue with C4U (Care4Ukraine.org) portable hand held radios was the new focus. These radios are used by drivers and volunteers. They are used to communicate with other drivers and the various "Community Stations". Community Stations are based on the specifications and antenna plans provided by BARC. They are powered by solar generators (Jackery or EcoFlow) with solar panels. Community stations are operated by an assigned local resident (with training) who in turn trains two additional residents as backup. Transmissions are relay-matrix on a specified day/time schedule. Stations are secured in rebar cages with a padlocked hatch. Radios are also given to local first-responders and police as their equipment has generally been scavenged by regional defense units. Donations include 38 refurbished radios from UK radio club and MSF (Médecins Sans Frontières). Additional units have been donated by groups/individuals from six different countries. BARC was able to collect enough donations from club members to purchase and ship 14 HT Baofeng UV-5R radios to Ukraine. In the meantime BARC had identified two antennas (1 omni-directional and 1 beam) that are inexpensive and could be made with materials that are local to the area. Bill Kent came up with a novel approach to transport the antennas. Plans were drawn up and photos for assembly were sent via secure email. There are currently 65 antennas deployed in Ukraine for the BARCnetUA.

The Ukraine Radio Program has now been officially renamed as BARCnetUA (BUA). The effort is pushing the idea of "older tech has modern relevance". It's been functioning for months, and is adding locations each month. C4U is the driving force in the creation of BUA. BUA is 100% civilian purposed. BUA-1 has been deployed and BUA-2 is in the process of being deployed. BUA-1 will place 12-15 transmitters in the northeast region of Ukraine between Chernihiv, Sumy and Poltava. This is a flat agricultural region. On a map, the subject area can be identified as a triangle with longest leg beginning at the town of Berenza, roughly 210 miles to the SE to the town of Ochtyrka, and the apex centered 160miles SW at the town of Pyriatyn. Different combinations of radios, solar power generators, and solar

## **Bosque Amateur Radio Club Ukraine Mobile Radio Program**

(Continued from page 4)

panels will be employed and monitored. There are plans to deploy a third BUA at a future date. Coverage area is per MSF request and C4U aid distribution agenda.

C4U has working relationships with multiple humanitarian groups and are 100% self funded (no gov't support)/ no formal financial connection to other groups, and no religious affiliations. C4U is in itself a recognized aid group with 30+ volunteers from 10 countries. C4U shares transport and works with deliveries and evacs with IMC, Mercy Corp, Save The Children, MSF, Americares, and others. ADH (Aktion Deutschland Hilft) is a German NGO that does great work and C4U cooperates with frequently, however, no formal ties between any of them due to declared focus and taxes. It's the rule. But if a message is received via BUA from a teacher in a learning center or that someone needs medical attention C4U could handle the evacuation or transport meds to a "doctor". Also medical aides might use one of the C4U learning centers for a quick kid's check.

As Joseph from C4U pointed out "There are times that it seems there's more aid groups than there are people to help. But many groups will not get close to the line of contact and that is where BUA is appreciated the most."

C4U gets food and hygiene donations from a few German and Polish mega markets, but still have to pay for petrol, drivers and van rentals. Because of that funds for radios would be an additional challenge. The UK folks gave C4U radios and solar generators, but they can't do more until wintertime has passed.

To donate to C4U and the radio program point your browser to Care4Ukraine.org put in your donation amount and add the key word "Radio" in the Supporting Words section. For the donation to go to the kids program add "Kids". Adding the keyword "General" the donation will go to the kids or medical program as needed.

More about C4U can be seen on the Raw Travel website:

<https://rawtravel.tv/video/10-05-webcut-helping-ukraine-with-care4ukraine/>

## **FEBRUBARY PROGRAM**

From Ed Poccia, KC2LM:

The program I have prepared for the February Bosque ARC meeting is on the modes used to send images over the ham bands.

1. The first SSTV system I will demonstrate uses an Android phone to send images with a HT.

2. An easy way to share images over the air, uses a mode included in the Fldigi suite, MFSK 16.

3. Analog SSTV is the most popular and has been around since the early 1960s. Today's version uses a free computer software to share different types of SSTV. Included in this type is a SSTV mode that can decode the ISS SSTV transmissions.

4. The last and latest imaging software I will be presenting is a Digital version called "Easy Pal", which generates large, extremely clear images that are far superior to the analog versions. This version can send text messages, ICS 213 forms used in EmComm, and even audio files.

73

Ed, KC2LM



## Elecraft K3 Transceiver and P3 Panadapter



Jeff Morgan saw our article in the Albuquerque Journal regarding our work on providing communications equipment and antenna design for the folks in the Ukraine. He liked the work our club is doing and decided to donate his K3. He is not a ham, but was considering becoming one and never did. This equipment is virtually new. It has been in the case for years, never used. He told me to sell it and keep 70% of the proceeds for the club and send him the remaining 30%. Really a kind gesture for our club!!

I need to test K3 and P3, but I feel it is in perfect working order. The radio is physically in perfect condition, inside and out. The P3 is also in excellent condition with the exception of some scratches on the top of the case. After testing, I will put a price on the gear and let you all know. Anyone interested is welcome to come by my place and take a look.

K3 100 Watt Transceiver Factory Assembled  
P3 Panadapter Factory Assembled  
ATU Factory Installed  
General Coverage RX Module Factory Installed  
6 kHz, 8 Pole Filter  
RX Ant., IF Out and Xverter Interface Factory Installed  
Universal Serial Bus Adapter  
Custom Elecraft Covers for both the K3 and P3

Astron RS-35A Power Supply  
Nanuk 946 Case  
Complete Documentation  
- K3 Owners Manual  
- P3 Owners Manual  
- The K3 Design, Configuration and Operation, 2nd edition  
- K3 Nifty Mini-Manual  
- P3 Nifty Mini-Manual

## **Wilderness Heart Attack Emergency Handled by Winlink**

*John Mocho, KC5QOC*

A while ago my ham radio friend and I went camping along the Jemez River, New Mexico, in one of the many Jemez Campgrounds. It was a perfect place for ham radio operators to be, as there is absolutely no cell phone access there at all. There was no FM repeater reachable from that area either, which was fine by us. We busied ourselves with FT8 and FT4 as well as phone operation. We sent several Winlink messages earlier in the day utilizing stations in Wickenburg, Arizona and Framingham, Utah. We sent SMS text messages to our grandchildren, as they don't like email.

As the evening wore on, my friend started having symptoms of a heart attack. He was familiar with the symptoms, as he had several stents and previous heart problems. We needed an ambulance, but there was no cell service, and it was miles to another phone. It was late at night and, being unfamiliar with the area, we were at a loss as to the best way to proceed.

I knew that Winlink has the ability to send SMS text messages, and my son was on call that week so he would answer a text message. I composed a message giving my location, including the GPS coordinates and the urgency of the situation. I sent the message via Winlink VARA HF to a station in Wickenburg. I waited for what seemed to be an eternity (in reality, only 10 minutes) and checked for a response. He had replied with a message that he had contacted the state police -- they would take care of the situation. In approximately 20 minutes, an ambulance arrived and my friend was on his way to the hospital. He is alive and well today.

Being a Technician licensee is a wonderful start to the world of emergency communication, but when real emergencies occur, having General- or Extra-class privileges and an HF radio is even better. -- *John Mocho, KC5QOC, Albuquerque, New Mexico (with thanks to Jay Miller, W5WHN)*



**CLUB SHIRTS**

These beautiful club shirts come in ladies and men's styles and sizes. We proudly wear our shirts whenever we are doing an activity that involves the public. It is a great way of promoting the club, not to mention that they look great! They are available in polo and button down long sleeve.

Contact Turbo Threads at 505 999-1234 or on line at <https://turbothreads.com> .

BTW...That snazzy club logo on the shirt and on our club banner was designed by Art Nichols, KI5GOL, one of our founding members.



If you wish to use PayPal to pay club dues, simply go to [bosquearc.com](http://bosquearc.com) and click on the Membership and Dues tab. You will find all the info needed. When you fill out the form on line, hit Submit at the bottom of the page. This will take you to a prorated table. Since our dues are paid by the year starting in April, you will only pay a partial amount based on the month you join. Club dues are only \$20 per year.

## MEET OUR TEAM



Jerry Aceto K6LIE  
President



Sean O'Mara AA5IZ  
Vice President



Bob Witter W5IV  
Treasurer



Gerry Jurrens N2GJ  
Secretary

**Here are email addresses of our officers should you need to contact any of us:**

**President - Jerry Aceto K6LIE - [jaaceto@gmail.com](mailto:jaaceto@gmail.com)**

**Vice President - Sean O'Mara AA5IZ - [sean.g.omarasr@gmail.com](mailto:sean.g.omarasr@gmail.com)**

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**Treasurer - Bob Witter W5IV - [rwitter@hotmail.com](mailto:rwitter@hotmail.com)**