



# NM5HD

WEEKLY NEWSLETTER  
FOR THE  
HIGH DESERT AMATEUR RADIO CLUB OF NEW  
MEXICO INC.

"Celebrating 20 years of service to the Amateur Radio Community and the General Public  
as a non profit 501 (c)(3) charitable organization"

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## Introduction from the President

Greetings,

This Saturday is our November Membership Meeting. Our Presenter is Mike Langer K5MGR and his topic is an interesting perspective on how HAM's started the Broadcast Industry. The meeting will be live streamed on ZOOM. Here is the link

<https://us02web.zoom.us/j/82498565319?pwd=AehMmuAG8eIV0Gr6kvpYcR4p7v1E5t.1> Pin 737373

The meeting starts at 10:00 A.M. at the North Domingo Baca Multigenerational Center in Albuquerque.

The HDARC Saturday Chat Shack Net Incentive Program finished its second week. We had 21 check in's. The theme was honoring Veterans Day. Eleven (11) HDARC members checked in. The remainder were non-members from the western and southern parts of the state. One was an Airman who was in El Paso TX on his way to Holloman AFB in Alamogordo NM. He was in the AF Security Forces. The other was a Air Force Pilot in Transit on I-40 traveling to Sheppard AFB in Wichita Falls, Texas. We still need members to volunteer to be net controllers and members to simply check in on the Saturday net. Complete details in the newsletter.

The Club Holiday Party and 20 year Celebration is scheduled for Saturday December 14, 2024. Please RSVP me at [hdarcpres@gmail.com](mailto:hdarcpres@gmail.com) if you plan to attend. I just need to have an idea of the numbers for attendance. Complete details in the newsletter.

We have dates and times for the Beginning HAM Satellite Workshop and the DMR Workshop. 2025 Winter Field Day is Saturday January 25, 2025. Details are in the Newsletter.

That's all I have for this week. See you at the membership meeting this Saturday. Look for the meeting agenda and October 2024 meeting minutes in your email inbox this Thursday.

73 Mike KI5NBP

### **Club Repeaters and Simplex Frequencies**

The Club has Two Repeaters, 442.750+ PL 162.2 on Sandia Crest and 145.370 - PL 162.2 in Edgewood. The Club uses two Simplex frequencies, 146.460 and 446.025

### **Join the FUN, join the Club**

Are you aware that the HDARC is one of the most active Amateur Radio Clubs in New Mexico? Well, it is! Read on and find out! Tell a friend! [www.nm5hd.org](http://www.nm5hd.org)

To become a club member go to [www.nm5hd.org](http://www.nm5hd.org) and click on the "become a member" tab to join the ever growing group of the coolest Hams in New Mexico, you'll be glad you did!

## Join the ARRL



The American Radio Relay League, the ARRL, a non-profit organization, is the largest membership association of amateur radio enthusiasts in the United States. The ARRL represents the interests of amateur radio operators before federal regulatory bodies, the ARRL provides technical advice and assistance to amateur radio enthusiasts, it also supports a number of educational programs and sponsors emergency communications service throughout the country. The HDARC is an ARRL Affiliated Club and a ARRL Special Service Club. We encourage you to join. Click on this link: <https://www.arrl.org/membership>

## Saturday CHAT SHACK NET Incentive Program-Update

This program has been developed to promote members to participate in the Saturday Chat Shack Net and develop net controller skills. We just finished the second (2) week of the program that runs through February 2025. The membership approved this incentive program for members who check in and members who volunteer to take on the role of net controller on various Saturdays. Here is the rooster by callsign of those members who checked in to the net on Saturday November 9, 2024: AG5UY N6SIK NM5MC KJ5IMX K5JVG NS7X KC2LM WA5YUL KJ5GWY KJ5GWX

**The net controller was KI5NBP. Any member in good standing who checks into the Saturday Net will receive a ticket with their call sign attached. When you check into the Chat Shack Net indicate that you are a member, clearly give you callsign using phonics. The net controller will submit their log sheet to the President who will verify and assign tickets. Those who chose to volunteer to be net controller and complete that assignment for a given Saturday will receive 5 tickets with their call sign attached. A member can be a net controller once per month.**

**Net controllers will be assigned on a first come first serve basis. You only need to be a net controller for the specific date you sign up for. We have a specific script to guide you and mentoring if you wish. These are not long term assignments. You can determine if you liked net control and if you liked the assignment we can schedule you again in a month or after the challenge. I have the following dates available:**

**November 2024: Saturday November 30, 2024**

**December 2024: Saturday December 14, 2024**

**Saturday December 28, 2024**

**January 2025: Saturday January 4, 2025**

**Saturday January 11, 2025**

**February 2025: Saturday February 8, 2025**

**Saturday February 22, 2025**

**If you wish to be net control for the Saturday Chat Shack Net on any of the available dates send an email to [hdarcpres@gmail.com](mailto:hdarcpres@gmail.com). The grand prize is a \$300.00 gift certificate to HRO (Ham Radio Outlet) and will be drawn at the March membership meeting. At every monthly club meeting between now and February 2025, members who**

participated can obtain an envelope with the tickets they earned to date. We hope that members actively participate in this challenge.

## Saturday CHAT SHACK NET/MegaLink

The Saturday 10am CHAT SHACK NET will use the 444.325 + PL 100 and the 145.290 - PL100 on Sandia Crest in order to access the MegaLink system.

### NM5HD Net Controllers :

1st Saturday, John Gleeson, K5JVG

2nd Saturday, OPEN . We need volunteers.

3rd Saturday, Club Meeting. No net

4th Saturday, Open for a Volunteer

5th Saturday, (when needed) Open for a volunteer.

*There is no net this coming Saturday due to the Membership Meeting.*

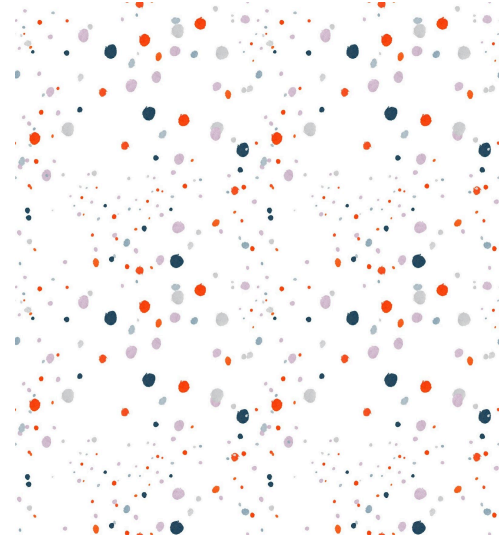
The next net is Saturday November 23, 2024. *Your net controller is Cynthia KJ5FMW. This will be her first time running a net. Mike C NM5MC is mentoring her for this net.* You can reach this Net from any part of NM because of its design. You just need to be on the right frequency, offset, and PL tone for the local repeater closest to your location at the day and time of the net. I use a HT and have checked in from different parts of the state with minimal issues. For current mega link frequency information go to [www.nm5ml.com](http://www.nm5ml.com). If you're having issues programming your radio email [hdarcpres@gmail.com](mailto:hdarcpres@gmail.com). You will be directed to someone in the club that can help you. Please [click here](#) to see the operational status of NM5ML Mega Link Repeaters.

## **HDARC Holiday Dinner and 20 Year Celebration -Update**



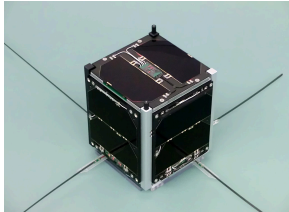
**Saturday December 14, 2024 is our annual HDARC Club Holiday Dinner. Save the date. We will also be acknowledging 20 years as a club. We will be**

**having the holiday/celebration dinner at *Rudy's Country Store and BBQ at 10136 Coors Blvd NW in Albuquerque NM.* Members and their guests will be responsible for getting their own food and then joining us in the enclosed and heated patio area. We will be giving away HDARC swag and prizes in honor of this milestone. Members in good standing that attend will receive free raffle tickets. To date we will be raffling two (2) \$100.00 gift certificates to Ham Radio Outlet (HRO). We have Anniversary Edition HDARC Hats and other items to be raffled for. If you plan to attend please RSVP at [hdarcpres@gmail.org](mailto:hdarcpres@gmail.org). I need just a number of who is attending to ensure we save enough space. To this point I have only received four 4 RSVPs as of this date.**



## **HDARC Space/Satellite Communications Program - UPDATE**

The club will be hosting a **Beginners HAM Radio Satellite Workshop** to be given by **Ed Poccia, KC2LM** . The date for



the workshop is **Saturday January 18, 2025 from 10:00 A.M. to 1:00 P.M.** The location will be the **North Domingo Baca Multigenerational Center** in



**Albuquerque, New Mexico.** If you are interested in attending the workshop please send an email to [hdarcpres@gmail.com](mailto:hdarcpres@gmail.com) expressing your interest to attend.

Click on this link to access an article from “The Radio Amateur Satellite Corporation (AMSAT)” to learn more about this topic:

[https://www.amsat.org/wordpress/wp-content/uploads/2023/06/For\\_Beginners\\_Compilation.pdf](https://www.amsat.org/wordpress/wp-content/uploads/2023/06/For_Beginners_Compilation.pdf)



### **2025 HDARC Winter Field Day**

**HDARC will participate in the 2025 Winter Field Day. Field starts on January 25, 2025 at 1200 hrs local time. SAVE THE DATE. We are currently seeking a location. Stay tuned for location and time. Click on the link for general information about Winter Field Day 2025:** <https://winterfieldday.org/>



## Digital Mobile Radio (DMR) - Getting on the Air Workshop- Update

The date for the DMR Getting on the AIR workshop is Saturday February 1, 2025 from 10:00 A.M. to 1:00 p.m. at the North Domingo Baca Multigenerational Center in Albuquerque New Mexico. The presenters are John Betz II KI5YIF and Paul Bouthillier KBØWMA. This workshop will get a new DMR operator and their DMR radio on the air. If you are interested in attending this workshop, send me a quick email stating such to [hdarcpres@gmail.com](mailto:hdarcpres@gmail.com).

## Test Equipment Loaner Program for Members

HDARC Director Harvey Dove KI5YVY is the lead for this program. *A copy of the program outline and how to contact HARvey to request a loaner is posted on the home page of NM5hd.org.*

The current inventory of loaner test equipment includes:

- MFJ -263 Dummy Loads
- MFJ - 802B Field Strength Meter
- RigExpert AA-650ZOOM Antenna Analyzer



We CURRENTLY have two donated pieces of test equipment; A ZeenKo, NanoVNA-H 4 Handheld Vector Network Analyzer and a Fluke Multimeter. Please consider if you have a piece of gently used and functional test equipment you can donate for this program. The next purchase of test equipment for the program will include RF noise detectors (MFJ 805).

### **HDARC East Mountain Group**

**Thursday November 21, 2024: East Mountain Group Luncheon.**  
11:30AM Little Mama's Restaurant (Formerly Katrinas) 505-281-4050  
150 NM-344 Edgewood, NM 87015

This is a casual get together. All past, present and future ham operators are welcome !

### **DCHF 2025 -Call for Leadership Volunteers**

The Duke City Hamfest 2025 (DCHF) BOD is seeking motivated individuals who would be willing to serve on the Board and help with the planning and hosting of the DCHF 2025. The commitment is roughly one meeting a month during most of the year, and then an increased meeting cadence in the couple of months leading up to the event. Interested candidates should be a team player, self-motivated and capable of completing tasks between meetings.

The DCHF Annual Meeting will be held on Saturday, November 23rd at 2pm at the Hub (just east of Truman/Gibson:  
<https://maps.app.goo.gl/vgMTDZDgPWDSX4p49>.

The meeting is open to the public, although we ask anyone interested in standing for a position on the Board to let us know in advance.

If people have questions, they can reach out to any of this year's Board of Directors (<https://www.dukecityhamfest.org/contacts/>).

## From the “Elmer”

This week we have a guest Elmer, Paul Bouthillier, KBØWMA

### Basics of Digital Radio

Being a new ham can be very intimidating at first with all the different modes out there. Where do I start? I got my license...now what? What radio do I buy? There are a lot of choices out there. This includes ham radio digital modes. If you are interested in communicating RF voice only then there are a few digital voice modes to choose from. They are D-STAR, DMR, System Fusion (C4FM) and NXDN. If you are interested in non-voice communications then there is CW, FT8, Packet, RTTY and PSK31. Ham radio continues to grow and evolve into the digital world every day. There are also many other digital means of ham radio communication that don't even involve a radio. This includes openSPOT, Pi-Star, Droidstar, AllStar, EchoLink, YSF Reflectors, Wires-X, and Codec2 just to name a few. It all comes down to you. What are your interests and what do you want to get out of ham radio as a new operator. To get started there is a lot of information on the internet that will help you answer those questions that you might have about the different digital modes that exist in ham radio. YouTube is a great resource. Ham radio mentors called “Elmers” are another great resource. Reach out to them, they always want to help in any way needed. Hams have a lot of experience and knowledge and are willing to share, coach and teach. I am personally involved in all of the different digital modes in ham radio. I really love to experiment, create and build projects involving digital ham radio and have many times reached out to my fellow ham operators for help

and guidance. As a final comment, remember “We Always Get The Message Out...That’s What We Do!” and “When All Else Fails... Ham Radio Works!”. I hope to hear you over the airwaves.

73 Paul KBØWMA Kb0wma@outlook.com

*Thank you Paul. Thank you MaryAnn NS7X for sharing. Elmer MaryAnn has prepared several tutoring kits for new hams. These kits will be available at this coming Saturday’s meeting. Thank you MaryAnn. If you know of someone wanting to become a ham or if you wish to upgrade, MaryAnn NS7X can be contacted through [ns7x@arrl.net](mailto:ns7x@arrl.net)*

ELMERS are defined as an experienced operator who takes someone under his or her wing, providing personal guidance and answers to the thousands of questions that confront a newbie. In our case it would include those wanting to upgrade.

### **The New HAM 10 (or so) Minute Tutorial**

**Building a Direction Finding (DF) Portable Loop Antenna | Use this loop to Track Down RFI Noise!**

<https://youtu.be/N4p9N3Gcl-Y?si=6Zu83WbasmznqtIZ>

## HDARC Member Name Badges/Hats/Shirts



I have been asked by members how to purchase a HDARC Membership Badge. [Click Here](#) to be directed to our vendor's web store.



HDARC Shirts,hats,and other Club gear can be ordered from Rio Rancho T-Shirts, 1207 Golf Course Rd SE Ste F, Rio Rancho, NM 87124. Speak with Wayne or Penny at: (505) 891-1521



## Club Calendar

November 2024 - January 2025

SAVE THE DATES **UPDATED**

## November 2024

Wednesday November 13, 2024 Noon: Club ZOOM Lunchtime Chat Room. Click on the link below to enter the virtual room.

<https://us02web.zoom.us/j/82410741347?pwd=kXb9i18t3bc3>

[MATidQmEsJb31DoVnR.1](#) PIN 737373

**Saturday November 16, 2024 10:00 AM: In Person Club Meeting and V.E. Testing.**

**Presentation: Mike Langer K5MGR : How Ham's started the Broadcast Industry:.**

**HT Radio Giveaway. V.E. Testing begins at Noon.**

**Location: North Domingo Baca Multigenerational Center Room #4  
7521 Carmel NE Albuquerque, NM 87113.**

**Live Stream Link:**

**<https://us02web.zoom.us/j/82498565319?pwd=AehMmuAG8eIV0Gr6kvpYcR4p7v1E5t.1>**

**Wednesday November 20, 2024 Noon: Club ZOOM Lunchtime Chat Room. Click on the link below to enter the virtual room.**

**<https://us02web.zoom.us/j/82410741347?pwd=kXb9i18t3bc3MATidQmEsJb31DoVnR.1> PIN 737373**

**Thursday November 21, 2024 11:30 A.M.: HDARC East Mountain Group Luncheon. 11:30AM Little Mama's Restaurant (Formerly Katrinas) 505-281-4050 150 NM-344 Edgewood, NM 87015**

**Saturday November 23, 2024 10:00 AM: HDARC NM5HD STATEWIDE CHAT SHACK NET on the MEGA Link NM5ML. Net controller is Cynthia KJ5FMW.**

**Wednesday November 27, 2024 Noon: Club ZOOM Lunchtime Chat Room.** Click on the link below to enter the virtual room.

**<https://us02web.zoom.us/j/82410741347?pwd=kXb9i18t3bc3MATidQmEsJb31DoVnR.1>** PIN 737373

**Saturday November 30, 2024 10:00 AM: HDARC NM5HD STATEWIDE CHAT SHACK NET on the MEGA Link NM5ML.**  
Net controller tbd.

## **December 2024**

**Wednesday December 4, 2024 Noon: Club ZOOM Lunchtime Chat Room.** Click on the link below to enter the virtual room.

**<https://us02web.zoom.us/j/82410741347?pwd=kXb9i18t3bc3MATidQmEsJb31DoVnR.1>** PIN 737373

**Saturday December 7 , 2024 10:00 AM: HDARC NM5HD STATEWIDE CHAT SHACK NET on the MEGA Link NM5ML.**  
K5JVG John is our net controller.

**Wednesday December 11, 2024 Noon: Club ZOOM Lunchtime Chat Room.** Click on the link below to enter the virtual room.

**<https://us02web.zoom.us/j/82410741347?pwd=kXb9i18t3bc3MATidQmEsJb31DoVnR.1>** PIN 737373

**Saturday December 14, 2024 10:00 AM: HDARC NM5HD STATEWIDE CHAT SHACK NET on the MEGA Link NM5ML. net controller TBD.**

**Saturday December 14, 2024 4:00 PM- 6:00 PM: HDARC Holiday Dinner and 20 Year Celebration. Rudy's Country Store & BBQ 10136 Coors Blvd NW in Albuquerque NM. RSVP [hdarcpres@gmail.com](mailto:hdarcpres@gmail.com)**

**Wednesday December 18, 2024 Noon: Club ZOOM Lunchtime Chat Room. Click on the link below to enter the virtual room. <https://us02web.zoom.us/j/82410741347?pwd=kXb9i18t3bc3MATidQmEsJb31DoVnR.1> PIN 737373**

**Saturday December 21, 2024 10:00 AM: In Person Club Meeting and V.E. Testing.  
Presentation: John Betz II KI5YIF: Intro to Digital Mobile Radio (DMR)  
HT Radio Giveaway. V.E. Testing begins at Noon. [Click here](#) for more information  
Location: North Domingo Baca Multigenerational Center Room #4  
7521 Carmel NE Albuquerque, NM 87113.**

**Live Stream Link: TBA at a later date**



**Wednesday December 25, 2024 Noon:** Club ZOOM Lunchtime Chat Room. Click on the link below to enter the virtual room.

**<https://us02web.zoom.us/j/82410741347?pwd=kXb9i18t3bc3MATidQmEsJb31DoVnR.1>** PIN 737373

**Saturday December 28, 2024 10:00 AM:** HDARC NM5HD STATEWIDE CHAT SHACK NET on the MEGA Link NM5ML. Net controller tbd.

**Wednesday December 30, 2024 Noon:** Club ZOOM Lunchtime Chat Room. Click on the link below to enter the virtual room.

**<https://us02web.zoom.us/j/82410741347?pwd=kXb9i18t3bc3MATidQmEsJb31DoVnR.1>** PIN 737373

## **January 2025**

**Wednesday January 1, 2025 Noon:** Club ZOOM Lunchtime Chat Room. Click on the link below to enter the virtual room.

**<https://us02web.zoom.us/j/82410741347?pwd=kXb9i18t3bc3MATidQmEsJb31DoVnR.1>** PIN 737373

**Saturday January 4, 2025 10:00 A.M.:** HDARC NM5HD STATEWIDE CHAT SHACK NET on the MEGA Link NM5ML. K5JVG John is our net controller.

**Wednesday January 8, 2025 Noon: Club ZOOM Lunchtime Chat Room. Click on the link below to enter the virtual room.**  
**<https://us02web.zoom.us/j/82410741347?pwd=kXb9i18t3bc3MATidQmEsJb31DoVnR.1>** PIN 737373

**Saturday January 11, 2025 10:00 A.M.: HDARC NM5HD STATEWIDE CHAT SHACK NET on the MEGA Link NM5ML. Net controller TBD.**

**Saturday January 11, 2025 10:00 A.M.: Beginning HAM Radio Satellite Workshop ; Presenter is Ed Poccia KC2LM  
Location: North Domingo Baca Multigenerational Center Room #4  
7521 Carmel NE Albuquerque, NM 87113.**

**Wednesday January 15, 2025 Noon: Club ZOOM Lunchtime Chat Room. Click on the link below to enter the virtual room.**  
**<https://us02web.zoom.us/j/82410741347?pwd=kXb9i18t3bc3MATidQmEsJb31DoVnR.1>** PIN 737373

**Saturday January 18, 2025 10:00 AM: In Person Club Meeting and V.E. Testing. Presentation: Winter Field Day Briefing & HT Radio Giveaway. V.E. Testing begins at Noon. [Click here](#) for more information  
Location: North Domingo Baca Multigenerational Center Room #4  
7521 Carmel NE Albuquerque, NM 87113.  
Live Stream Link: TBA at a later date**

Wednesday January 22, 2025 Noon: Club ZOOM Lunchtime Chat Room. Click on the link below to enter the virtual room.  
<https://us02web.zoom.us/j/82410741347?pwd=kXb9i18t3bc3MATidQmEsJb31DoVnR.1> PIN 737373

Saturday January 25, 2025 10:00 A.M.: HDARC NM5HD STATEWIDE CHAT SHACK NET on the MEGA Link NM5ML. Net controller TBD.

Saturday January 25, 2025 09:00 A.M. to 4:00 PM: HDARC WINTER FIELD DAY. Location TBD

Wednesday January 29, 2025 Noon: Club ZOOM Lunchtime Chat Room. Click on the link below to enter the virtual room.  
<https://us02web.zoom.us/j/82410741347?pwd=kXb9i18t3bc3MATidQmEsJb31DoVnR.1> PIN 737373

### V.E. Testing

The Institute of HAM Radio Sciences conducts free V.E. testing session at NOON on the 3rd Saturday, of every month immediately following the Monthly HDARC In-Person Club Meeting in classroom #4 at the North Domingo Baca Multigenerational Center. Look for the link [FREE TESTING](#) on the club web page. Please, pre register on the club web page for testing [www.nm5hd.org](http://www.nm5hd.org). For more information contact

Yul Bratcher at his email, [yul.bratcher@att.net](mailto:yul.bratcher@att.net) A big 73 to YUL and the V.E. team for volunteering their time and resources. Without them this could not happen.

## **Classifieds**

Welcome to the classified section. The intent is to give members and other HAMS a place to advertise any HAM related equipment they have for sale. It is also a place for members to list what HAM related equipment they are seeking to buy. There are no new classifieds this week. We will have new items posted next week.

## **HAM RADIO ETIQUETTE**

- adapted from the original Amateur's Code, written by Paul M. Segal, W9EEA, in 1928

**The Radio Amateur is:**

**CONSIDERATE...He/[She] never knowingly operates in such a way as to lessen the pleasure of others.**

**LOYAL...He/[She] offers loyalty, encouragement and support to other amateurs, local clubs, the IARU Radio Society in his/[her] country, through which Amateur Radio in his/[her] country is represented nationally and internationally.**

**PROGRESSIVE...He/[She] keeps his/[her] station up to date. It is well-built and efficient. His/[Her] operating practice is above reproach.**

**FRIENDLY...He/[She] operates slowly and patiently when requested; offers friendly advice and counsel to beginners; kind assistance, cooperation and consideration for the interests of others. These are the marks of the amateur spirit.**

**BALANCED...Radio is a hobby, never interfering with duties owed to family, job, school or community.**

**PATRIOTIC...His/[Her] station and skills are always ready for service to country and community.**

### **CONCLUSION**

Check the club's website often, there are interesting things being added weekly. [www.nm5hd.org](http://www.nm5hd.org)

I want to thank the club's COB, Kenneth Ham, AG5UY, for maintaining the website. Thanks Yul, WA5YUL and V.E. team for what they do to provide free testing to the public. Thank you to our Elmer MaryAnn NS7X for contributing to the newsletter. Thanks to those of you who provided content for this newsletters. Feel free to reach out to me anytime at [hdarcpres@gmail.com](mailto:hdarcpres@gmail.com). If you wish to add content to the weekly newsletter the deadline for submission is Monday preceding the Wednesday publication date. *I look forward to hearing from you on the net this Saturday.*

**73 Mike**

**Michael R. Smith, KI5NBP, President HDARC  
The High Desert Amateur Radio Club of New Mexico, Inc.**

