



CLIFF-HANGER



May 2023 Newsletter

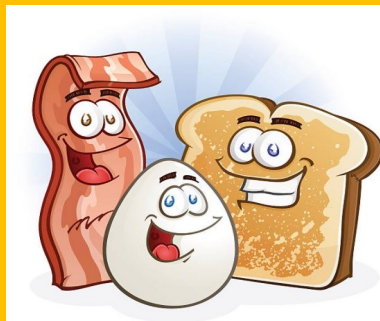
Join Us For Our Monday Night ATARA Off-Grid Radio Team Net at 8:00 PM on
Simplex 146.400!!

All Amateur Operators Invited. You Do Not Have To Be a Member to Participate.

ATARA Club Breakfast

When: Sat, May 13th 2023
8am – 9am

Where: Scramblers,
1377 Ety Road
Lancaster, OH 43130, USA



**CLICK EACH
LINK BELOW**

Ohio HamFest's



Meeting Schedule

2nd Tuesday Exams

3rd Tuesday is ATARA OFF-GRID
Meeting

4th Tuesday Club Meeting

[Athens Hamfest 4-30-2023 Athens, Ohio](#)

[Lucas County Amateur Radio Trunk Sale & Swap Meet 5-7-2023 Toledo, Ohio](#)

[RV Radio Network Hamfest 5-13 to 5-17-2023 Berlin, Ohio](#)

[Dayton HamVention 5-19 to 5-21-2023 Xenia, Ohio](#)

[Scioto Valley Amateur Radio Club Hamfest 5-27-23 Piketon, Ohio](#)

[FCARC Summer Hamfest 6-3-23 Wauseon, Ohio](#)

Remember Our Thursday ATARA Night Net

**8:00 PM on 145.210 Repeater also now on EchoLink
W8ATR from 8 PM until 9 PM only.**



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“A Candid Interview with”

Gordon Scannell “KDSCOJ” of ATARA



My grandfather was someone I really admired growing up. He served in World War II in London, England and shortly after returning home at the end of the war, he was diagnosed with cancer and not given much time. He came home and told his neighbor (his friend). His neighbor threw him a set of keys to his plane, and told my grandfather, **“Go Learn to Fly, and forget your problems.”**

My grandfather, learned to fly and was a licensed pilot and even owned a few Cessna 172s over the years after getting licensed. My grandfather passed sadly in 2000, but there is not a day I do not think of that Life Quote from his neighbor.

In 1983, the [Right Stuff](#) movie came out. To say this movie encouraged me, motivated me would be an understatement. To this day, it remains one of my favorite movies of all time – and I am a big-time movie guy!!

Growing up in Livonia Michigan (a suburb just outside of Detroit) I did not know anything about amateur radio, nor knew anyone who did it. I visited my cousins in Youngtown Ohio quite often and my cousin bought a Radio Shack scanner which we chased fire calls and ambulance runs.

I purchased the same Radio Shack Pro-2003 desktop scanner.



While I programmed my local Livonia police, fire, airports into my scanner at home, I also accidentally stumbled on these folks on 144 – 148 MHz so I asked my cousin what that is. He says they are Hams. Being google is not invented back in the early 80s I cannot look that up as to what “hams” are. I grew up in Livonia Michigan, I “discover” local repeaters including the Livonia Repeater on 145.35MHz (More on that later in my life) which I save into my limited memory desktop scanner.



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“A Candid Interview with”

Gordon Scannell “KD8COJ” of ATARA

My mom, being a schoolteacher, bought me a Heath binder study guide with CASSETTE TAPES (for those of you younger folks, we USED to listen to music on these). She even buys me a practice morse code keyer kit, which I build.

Another trip to my nearby Radio Shack, I purchased a discone antenna and mount it in the second-floor attic above my bedroom where I already have an amplified TV antenna on a rotor that I can steer to Toledo Ohio to watch ABC, CBS, NBC from Toledo Ohio. I also added a Radio Shack Pro-34 that I can listen to wherever I go (including when I attended Ferris State University in Big Rapids, Michigan) majoring in television production.



In 1982, my science teacher Doc Ackley, spoke to my eighth-grade class about taking Earth Science in ninth grade. He told us boys in the class someday, you can woo that special girl by showing her *Zuben-eschamali* (https://en.wikipedia.org/wiki/Beta_Librae) and other stars that we learned about in Earth Science the following year. That was enough for me to sign up for the class!!! While it took me MANY MORE YEARS to meet that special girl Well, more on that later.

In 2005, I took a class with the Salvation Army in Detroit and passed my Technician’s license and was assigned KD8COJ. Some folks in Metro Detroit referred to me as “Concentrated Orange Juice” (hey I have been called much worse – lol).

In late 2014 I met Larry Koziel (K8MU), and I worked as an ARISS contact with him at a school in Warren Michigan. Warren School had a contact spoke to Kochi Wakata on March 14, 2014. Larry and I - along with Steve Culp (K8QKY) and Patrick Kilroy (N8PK) became good friends. I also became good friends with the teachers in Warren Tuyen Duddles (KD8YZK) and Mark Supal (KD8YZL).

One of my favorite Life Quotes came from Tuyen, “If I could just get one student to say, oh I could be an astronaut or I can launch a satellite, or just be interested in science or math class or show more interest, then I think I’ve done my job.”

Shortly after the Warren ARISS contact, I submitted another proposal to ARISS for another contract in Dearborn Public Schools where I work as a computer technician. ARISS accepted our proposal. Coordinating an ARISS contact is A LOT of work (it takes over a year of work).



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“A Candid Interview with”

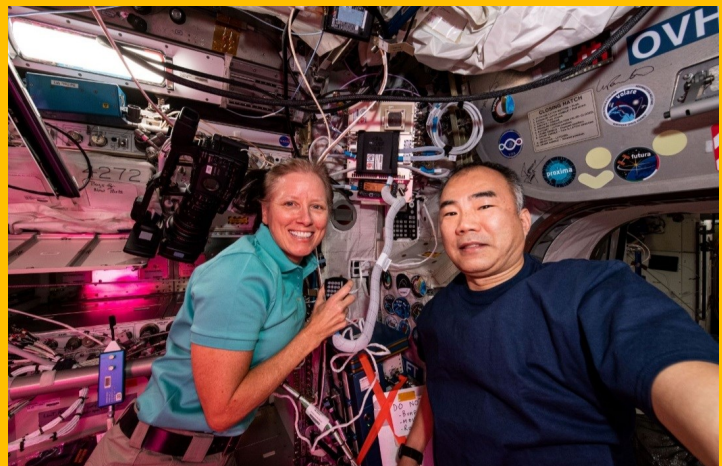
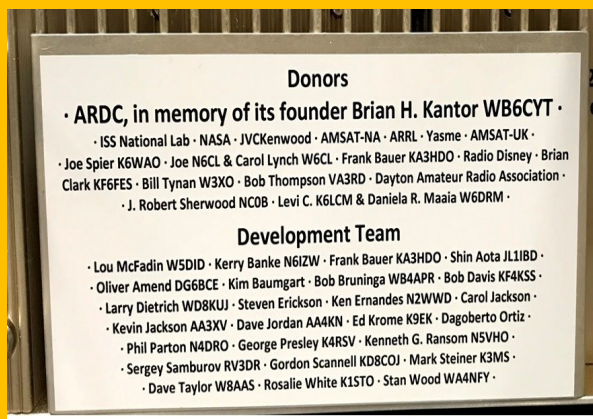
Gordon Scannell “KD8COJ” of ATARA

On October 27, 2015, Dearborn spoke to Kjell Lindgren for an ARISS contact.

In 2015, shortly after the Dearborn contact, my amateur license was going to expire if I did not renew. After ten years of holding the license, I FINALLY found my calling in Amateur Radio ... ARISS.

I reached out to ARISS and recall speaking to Rosalie White in the Summer of 2016. She asked me to be an ARISS mentor. I had NO IDEA what that meant. ARISS had me travel to Houston Texas for their ARISS face to face meeting. This meeting is where all the ARISS team WOLDWIDE meet in person to discuss various ARISS activities. I had the honor to meet and get to know Frank Bauer (KA3HDO), Rosalie White (K1STO) and other ARISS members and several US astronauts including [Fincke, E. Michael](#). I had NEVER in my life collaborated with a team such as ARISS. We ALL work together to give the students we serve the BEST opportunity to speak with an astronaut. Also in 2015, I met Laura Beck and the day before I left for Houston, we had dinner and spoke about the future together. Was THIS the girl I could share *Zubeneschamali* with???

In July 2017, I flew down to Orlando Florida and worked on a safety paper for the new ARISS IORS (Inter-Operable Radio System) which includes a modified Kenwood TM-D710GA and a custom-built multi-voltage power supply to be sent to the International Space Station.





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“A Candid Interview with”

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On Monday April 10, 2017, I asked Laura Beck to marry me. At age FIFTY, we were married on November 10 of that year. She IS that special girl my science teacher spoke of way back 35 years earlier.

In 2018, I worked as an ARISS contact with a school in Lancaster Ohio and met Diane Warner (KE8HLD). Diane and I became great friends and continue to work with ARISS as she volunteers as an ARISS Educational Ambassador.

In 2020, I was elected vice president of the Livonia Amateur Radio Club (<https://livoniaarc.com>) and I have been re-elected to this position in 2021, 2022 and 2023. This is the same club that I first heard about back in the early eighties on my first scanner.

In March 2020, the new radio and power supply was launched to the ISS via SpaceX 20 cargo supply mission. NASA had invited me to attend the launch, but due to the beginning of covid, I did not attend the launch.

On October 2021, I briefly forgot my problems (as my grandfather’s quote goes). My wife bought me a first flight lesson, and I flew a Cessna 172 aircraft the same model my grandfather once owned.

In December 2021 (during covid) I mentored a school in Estes Park Colorado. Half the fifth-grade class, including a few girls and a couple of teachers took their tech exam and became hams.

Sadly, in August 2022, Larry (K8MU) my amateur radio mentor and good friend passed away. He will TRULY be missed, and I think about him regularly.

“If I could just get one student to say, oh I could be an astronaut or I can launch a satellite, or just be interested in science or math class or show more interest, then I think I’ve done my job.”

As of April of 2023, I have volunteered with twelve ARISS contacts in ten states and am LOVING this hobby!!!

“Go Learn to Fly and forget your problems.”



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“A Candid Interview with”

Gordon Scannell “KD8COJ” of ATARA





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“A Candid Interview with”

Gordon Scannell “KDSCOJ” of ATARA





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ATARA and



ARISS



Amateur Radio on the International Space Station

“ARISS lets students worldwide experience the excitement of talking directly with crew members of the International Space Station, inspiring them to pursue interests in careers in science, technology, engineering and math, and engaging them with radio science technology through amateur radio.” ARISS.org.

ARISS is an amazing organization comprised of volunteers around the world who donate their time and resources to enable students to participate in this incredible experience.

When asked about my experience with our school’s ARISS Contact, it’s almost surreal. You walk into the building, and you sense that something special is going to happen. Everyone is excited and nervous, there are press everywhere, special guests milling about, and students talking excitedly about the event. You’ve worked all year with your students on special STEM related lessons and watching their excitement as they learn. You track the ISS until it is in range and you hear those incredible words, “NA1SS” on the radio. Then you know, it was worth all the work involved.

As a result of the ARISS Contact for my school, I made life-long friendships, along with joining the ARISS Educational Team. Gordon, KD8COJ, an ARISS Technical Mentor, is also a founding member of ATARA. Gordon and I have worked with a few schools who were awarded an ARISS Contact.

If you would like more information about ARISS, visit their website at ARISS.org or ARISS-US.ORG.



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ATARA and



ARISS



Amateur Radio on the International Space Station



Special Thanks to Diane....

“KESHLD” for all her help ALWAYS!!



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May Newsletter

Being Present in the Moment



Safety Officer: Kevin Frank, KSKDF safety@atara-w8atr.fun

Being Present in the Moment Safety Talk



There are many things going on around us in our physical environment, as well as distractions occupying our minds at any given time. With all of the challenges and noise we face in today's world, it is difficult to be truly present in the moment we are in. This can be especially true at work. It is important to realize when our focus, attention, or mind is not fully present in the moment while completing a work task.

What does it mean to be truly present? For the purpose of this talk, we are discussing where our focus and attention is in a given moment. All too often, we are physically present somewhere, but our focus and attention are not. We have all been there. Whether it is during a safety meeting or when driving [home](#), we zone out and quickly realize we have no clue what was said in the safety meeting, or with the snap of a finger, we are home but have no recollection of the drive. This kind of disconnect from the present moment can be extremely dangerous when at work.



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May Newsletter

Being Present in the Moment



Safety Officer: Kevin Frank, KSKDF safety@atara-w8atr.fun

Dangers of Not Being Present While at Work

The dangers of not being fully present and engaged while at work are obvious. Two quick scenarios:

- **Scenario #1** – A supervisor is going through the safety procedures for a new piece of equipment. Your mind begins to wander, and you do not hear much of the discussion. Later that day, while you are using the equipment, a coworker's hand gets caught in moving parts and you do not know where the emergency shutoff switch is.
- **Scenario #2** – You are working in a plant during a shutdown, and many different companies are performing work in a small area. You are not paying attention to where you are walking and totally miss multiple signs warning of overhead work being performed. A piece of pipe falls from a higher level and strikes you on the shoulder.





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May Newsletter

Being Present in the Moment



Safety Officer: Kevin Frank, KSKDF safety@atara-w8atr.fun

How to be Present

There are many reasons why we may not be present in any given moment. As individuals, we vary greatly, but a few quick tips may help you be more in the moment the next time you find your mind wandering.

- Take note of how well you are focusing and where your mind is at. From there, make the conscious choice to improve your focus and attention if needed.
- When you are part of a discussion or receiving directions, make sure that you are actively listening to the person speaking. One way to become a better listener is to treat the information as something you are going to have to teach to a coworker. Receiving information with the expectation that you will be responsible to pass on it can help ensure that you actively listen to the person speaking.
- **Eliminate** distractions from the physical work area. Things such as noise, clutter, chemicals, people, equipment, etc., can have a large impact on your ability to fully pay attention to what you are doing in any given moment at work. Eliminating distractions can make all the difference in whether or not you are able to focus fully on the task at hand.
- Eliminate any personal issues that are causing your mind to wander whenever possible. Often times personal issues cause our minds to not be fully present on our work. Try to calm your concerns or worries by making a phone call home if that will help solve the issue. If a discussion will not help the situation, then maybe you need to take the rest of the day off.



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May Newsletter

Being Present in the Moment



Safety Officer: Kevin Frank, K8KDF safety@atara-w8atr.fun

Summary

It can be challenging to truly be present at work. Distractions, long hours, [health issues](#), family problems, stress, etc., all plague us and our ability to be fully present in our work. It is only possible through recognizing where our focus and attention are, and from there, deciding to take the necessary steps to try to be more present in the moment we are in.





CLIPBOARD

Repeat



May 2023 Newsletter

Links That You Will Find Helpful

ARRL Links....

[ARRL Home Page](#)
[Hanfest and Convention Calendar](#)
[FCC Licensing Search](#)
[Ham Radio Band Chart](#)
[ARRL Ohio Section Page](#)

Weather & Space....

[Space Tracker](#)
[Central Ohio Severe Weather Network](#)
[Weather Spotter Training Schedule](#)
[Lightning Tracker Maps](#)

Useful Links for Ham Radio....

[Parks on the Air](#)

[QRZ Lookup](#)

[Ohio Repeaters](#)

[Repeater Book](#)

[Repeater Builder Information](#)

[Ham Radio Information with Map](#)

[Netlogger Download](#)

[Never Ending Ham Radio PDF Collection](#)

Calculators & Antenna's....

[Antenna Calculator](#)
[Ground Plane Calculator](#)
[Basic Wire Antenna's](#)
[Random Wire Lengths](#)
[VK5AJL on Baluns](#)

Batteries & Circuits....

[Learn About Batteries](#)
[All About Circuits](#)
[Electronic Notes](#)

Manufactures....

[Yeasu Home Page](#)
[Kenwood Amateur Radio](#)
[Home Page](#)
[Icom America Amateur Radio](#)
[Home](#)

Continued Information....

[EHam.net](#)

[DX Monitor](#)

Repeat



CLIP REPEATER

Repeat



May 2023 Newsletter

Links That You Will Find Helpful

Continued Information....

[Never Ending Ham Radio PDF Collection](#)

[The DXZone](#)

Where to Purchase....

[DX Engineering](#)

[GigaParts Technology Superstore](#)

[Ham Radio Outlet](#)

[R and L Electronics](#)

[Amateur Radio Supplies](#)

[Cheap Ham Homepage](#)

[DL Drake Company](#)

[Newark Electronics](#)

[Mouser Electronics](#)

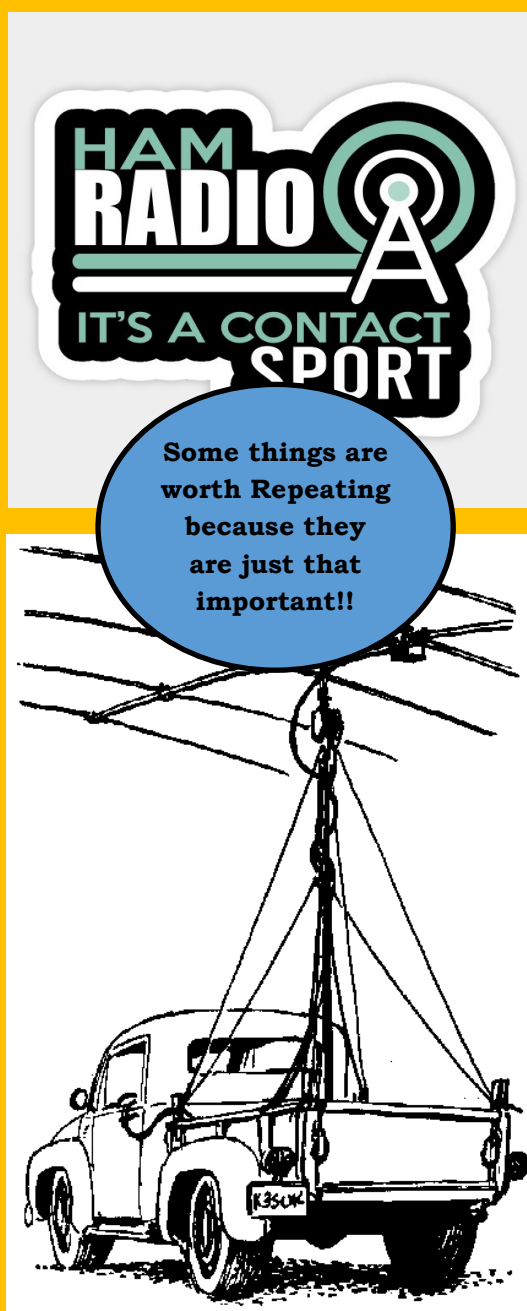
[T Electronics Components](#)

[The RF Connection](#)

[The Palomar Engineers](#)

[NI4L Antennas & Electronics LLC](#)

[Online Components](#)



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Check out the message at the bottom of the
Calendar. Never miss a meeting again. It ZOOM Time.

May 2023 Calendar of Events

CLIFF-HANGER W8ATR		May 2023				
Sunday	Monday	Tuesday	Weds.	Thursday	Friday	Saturday
	1 8:00 OGRT Simplex Net	2	3	4 8:00 ATARA Club Net	5	6 Event: APL Survival @ Alley Park
7	8 8:00 OGRT Simplex Net	9 7:00 VE Test Session	10	11 8:00 ATARA Club Net	12	13 8:00 ATARA Breakfast OGRT Field Training
14	15 8:00 OGRT Simplex Net	16 7:00 Off-Grid Radio Team Mtg.	17	18 8:00 ATARA Club Net	19 Hamvention	20 Hamvention
21	22 8:00 OGRT Simplex Net	23 7:00 ATARA Club Mtg.	24	25 8:00 ATARA Club Net	26	27
28	29 8:00 OGRT Simplex Net	30 Executive Mtg.	31			



**Zoom Meeting Link will be sent out
before our regular monthly meeting.**





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Lancaster OH 43130-4048

EXAM SESSION

05/09/2023
Sponsor: ATARA
Date: May 9th, 2023
Time: 7:00 PM (No Walk-ins / Register or Call ahead)
Contact: Jarrod K. Combs
Email: ke8mbl@outlook.com
VEC: [ARRL/VEC](#)
Location: Grace Comm Church and Fellowship
904 E Main St
Lancaster OH 43130-4048

Lancaster OH 43130-4048

EXAM SESSION

06/13/2023
Sponsor: ATARA
Date: June 13th, 2023
Time: 7:00 PM (No Walk-ins / Register or Call ahead)
Contact: Jarrod K. Combs
Email: ke8mbl@outlook.com
VEC: [ARRL/VEC](#)
Location: Grace Comm Church and Fellowship
904 E Main St
Lancaster OH 43130-4048

Lancaster OH 43130-4048

EXAM SESSION

07/11/2023
Sponsor: ATARA
Date: July 11th, 2023
Time: 7:00 PM (No Walk-ins / Register or Call ahead)
Contact: Jarrod K. Combs
Email: ke8mbl@outlook.com
VEC: [ARRL/VEC](#)
Location: Grace Comm Church and Fellowship
904 E Main St
Lancaster OH 43130-4048

E X A M S S C H E D U L E

Lancaster OH 43130-4048

EXAM SESSION

08/15/2023
Sponsor: ATARA
Date: August 15th, 2023
Time: 7:00 PM (No Walk-ins / Register or Call ahead)
Contact: Jarrod K. Combs
Email: ke8mbl@outlook.com
VEC: [ARRL/VEC](#)
Location: Grace Comm Church and Fellowship
904 E Main St
Lancaster OH 43130-4048

Lancaster OH 43130-4048

EXAM SESSION

09/12/2023
Sponsor: ATARA
Date: September 12th, 2023
Time: 7:00 PM (No Walk-ins / Register or Call ahead)
Contact: Jarrod K. Combs
Email: ke8mbl@outlook.com
VEC: [ARRL/VEC](#)
Location: Grace Comm Church and Fellowship
904 E Main St
Lancaster OH 43130-4048

Lancaster OH 43130-4048

EXAM SESSION

10/10/2023
Sponsor: ATARA
Date: October 10th, 2023
Time: 7:00 PM (No Walk-ins / Register or Call ahead)
Contact: Jarrod K. Combs
Email: ke8mbl@outlook.com
VEC: [ARRL/VEC](#)
Location: Grace Comm Church and Fellowship
904 E Main St
Lancaster OH 43130-4048



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May 2023 Newsletter

7 DIFFERENT HAM RADIO ANTENNA TYPES YOU NEED TO KNOW

1. DUAL BAND VHF/UHF ANTENNA

xRoadGPS Thank you!!

This type of antenna is vertically polarized and covers 2-meters and 70-centimeters simplex and repeater operating. A few examples of a dual-band VHF/UHF antenna are **Diamond X-50A**, **Comet GP-3**, and **Tram 1185**, among others.

The vertical whip has a lower angle of radiation when compared to a horizontal dipole. The omnidirectional radiation pattern then enables all-rounded radiation. It undoubtedly works as a benefit at HF, as well as VHF/UHF.

However, keep in mind, such an antenna won't work well with weak-signal SSB and CW operating. Horizontal polarization would be a better choice in that case.

To operate on the HF band, you can set up a single-band antenna for each band, but that could result in endless cables. For this reason, it will be understandable to opt for a multi-band antenna to keep the number of wires and antennas in check.

The vertical antennas are the ideal choice for MF broadcasting and mobile communications! However, it does need an excellent ground plane for efficient performance.

The best part is they occupy much lesser space than an antenna like the horizontal dipole. You can install one in your garden plot without much hassle.

If you're looking for multi-band operation, your best bet would be fan [dipole](#) or trap dipole.



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May 2023 Newsletter

7 DIFFERENT HAM RADIO ANTENNA TYPES YOU NEED TO KNOW

2. PARALLEL DIPOLE ANTENNA

The parallel or fan dipole is another type you could choose for your amateur radio. It is another **half-wave dipole**, but with some extra elements that enable multi-band usage. Its unique design gives it the name – fan dipole.

There may be some interaction between these additional elements, but a common coax cable connects them. It reduces the hassle and needs for multiple coax cables!

You will be happy to know that a fan dipole is easy to construct and set up at home. The material and equipment involved are available for purchase online and in markets, to support convenient construction.

3. TRAP DIPOLE ANTENNA

This dipole type uses traps: **tuned circuits**, to provide multiple band operation. It does the job by isolating sections of the antenna.

This form of antenna is usually commercially made and works as an effective solution to work with two or three different HF bands.

On this dipole, the traps electrically shorten the dipole for higher bands. The lowest frequency band decides the dipole length. By ground mounting the trap dipole, you can limit the space it occupies.

However, this means that obstructions like walls, buildings, and other objects will shield it.

To maximize the benefits, you can also combine the features of trap dipole and fan dipole.



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May 2023 Newsletter

7 DIFFERENT HAM RADIO ANTENNA TYPES YOU NEED TO KNOW

4. END FED HALF WAVE (EFHW) ANTENNA

Another popular choice among amateur radio users is the end fed half wave antenna. It is quite similar to a dipole, but the coaxial cable on it connects to one end of the half-wave wire. It allows for convenient mounting.

One remarkable feature is that multi-band versions of it are available like the **LNR Precision range**.

This EFHW antenna uses a 50-ohm impedance cable and a step up impedance RF transformer (Unun). You will need a counterpoise for it and not an earth connection.

This type of system is relatively low-cost and enables multi-band operation. However, it can have a higher level of interference than most balanced antennas.

5. WIRE DIPOLE ANTENNA

Emptying the pocket over a ham radio antenna may not be an economical option for every operator. Thus, it makes sense to look for **budget-friendly** options like the wire dipole. It is an uncomplicated and cost-effective solution for efficient radio communication.

The antenna performs remarkably well when you mount it as high as possible. That is because the height or length of the dipole contributes to the frequency.

While users most commonly opt for the dipole for a single band, there are versions available for multi-band usage.

You can use such type of antennas for HF communication; however, they may also be used at VHF.



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May 2023 Newsletter

7 DIFFERENT HAM RADIO ANTENNA TYPES YOU NEED TO KNOW

6. HF WIRE DOUBLET ANTENNA

Here's a different kind of a dipole. It uses an open-wire feeder and an antenna tuning unit. Ham radio users opt for this model for the HF band.

Nonetheless, it is essential to note that it cannot be run through a house smoothly without it becoming unbalanced.

Apart from providing a multi-band operation, the G5RV fits domestic gardens and some plots. The highlight for us is that the antenna is not excessively large is quite straight forward to install.

7. YAGI/DIRECTIONAL ANTENNA

Are you looking for additional gain over vertical antennas and dipole? Are you looking to cover the extended distance at VHF/UHF? You have landed at the right place.

The solution for **long-distance operation** is the directional antenna, also known as Yagi.

Please note that to operate at HF, you will need a tower and, subsequently, a plot to erect it. On the other hand, the Yagi may be more practical for VHF and UHF, as you can install it on fixings attached to the house.

You may have seen them as television antennas, but they may serve useful for other applications, as well. But, it is critical to note that these may be costly and are more prone to the risk of lightning damage.

You can look at the popular options like the **M2 2M9SSB** antenna or the newer, portable **Arrow** models.

CLIFF-HANGER



HISTORY

Popular Radio

SEPTEMBER, 1922

How to Build the New Armstrong-Circuit Receiving Set

15¢

THE GOLDEN EAGLE

A SPECIAL POSSESSION COMMEMORATING OUR NATION'S BICENTENNIAL

Limited Production Gold Plated Model T-UG9-0104 • List Price \$159.00

The Astatic Corporation, a pioneer in microphone manufacturing, is proud to introduce this very special product. A close companion of fame since 1933, Astatic's famous D104 microphone is now combined with a transistorized 5 wire grip-to-talk stand to provide a universal base station microphone. The complete assembly is 20K gold plated and includes a removable plate which can be returned to Astatic for engraving call letters.

PERFORMANCE FEATURES • Amplified for transistorized CE and ham transceivers. • Controlled frequency response for maximum intelligibility. • Screwdriver adjustable volume control, prevents accidental change. • 6 wires (5 conductors, 1 shielded) for universal application with almost all known CE transceivers. • Includes 9 volt battery.

THE ASTATIC CORPORATION • Conneaut, Ohio 44030 U.S.A.

in Canada: Canadian-Astetic Ltd., Scarborough, Ontario M1H 2Y5.
Export Sales: Mather Exporting Co., 270 Westview Road, Paramus, New York 10765, U.S.A.

CE MAGAZINE, DECEMBER, 1975 77

QST

A Magazine Devoted Entirely to AMATEUR RADIO

Published by the AMERICAN RADIO RELAY LEAGUE

Time for Action

APRIL 1923

APRIL 13-14 Baltimore

WF The WARBURTON FRANKI Page

"International Rectifier" SILICON RECTIFIER Type TV-502

SPECIAL! For use in Television Receivers. Half-Wave. Rating 230 volts at 500 mA. This rectifier consists of two silicon power diodes, connected in series, and mounted on small cooling fins. Size: 1 1/2 x 1 1/4 x 1 inch.

LIMITED NUMBER ONLY. 21/16 plus 25% S.T.

"International Rectifier" SILICON POWER DIODE 400 FIV, 550 mA. For general applications at operating temperatures to 100°C.

- High Power Rating.
- Long Term Reliability.
- Specialized design for general Radio and Television applications. Provides high reliability along with high power capabilities. Rerated d.c. output current to 300 mA. at a peak reverse voltage surge of 400. Optimum mechanical strength of assembly for all major semiconductor types.
- Excellent Reliability.

PRICE: 14/6 plus 25% S.T.

SELENIUM RECTIFIERS MADE TO ORDER

Made from American "International" Plates and Components. One type available from stock is rated at 12 volt 8 amps, and is suitable for battery charging, etc. Size of plate is 8" square and overall size over terminals and mounting screws is 7 1/2" x 9 1/2".

PRICE 65/-.

Pack and Post 1/8.

SEMICAP HIGH Q VOLTAGE VARIABLE CAPACITOR 4 of 1400 plus 1 message reference.

- Low Power Requirements.
- Miniaturization.
- Temperature Insensitivity.
- Excellent Reliability.

HIGH Q-WIDE CAPACITANCE RANGE

A practical series of new components; capacitors whose capacitance is determined by the applied d.c. voltage. The Q is high up to 1000, and the capacity range great. For the first time circuits can be tuned by electrical rather than mechanical methods.

PRICE: 17/6 plus 12 1/2% S.T.

BARGAIN IN MULTIMETERS

Big purchase of imported Multimeters available at seasonally low prices.

Ranges:
D.C. Voltage: 0/10/250/500/1,000.
A.C. Voltage: 0/10/250/500/1,000.
D.C. Current: 0/1/250 mA.
Resistance: 0/10/100/1,000 ohms.
Sensitivity: 1,000 ohms per volt.

Packed in Box with Test Leads 99/6 and Instructions

PRICE: £62/10/8 + 12 1/2% S.T. Deposit £17. £5 monthly for 12 months. Freight forward. Shipping weight, 22 lbs.

TOP PERFORMANCE—MAGNAVOX LOUSPEAKERS

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HFS	5"	4	150-15K c.p.s.	£2/15/11	1/10	3/-
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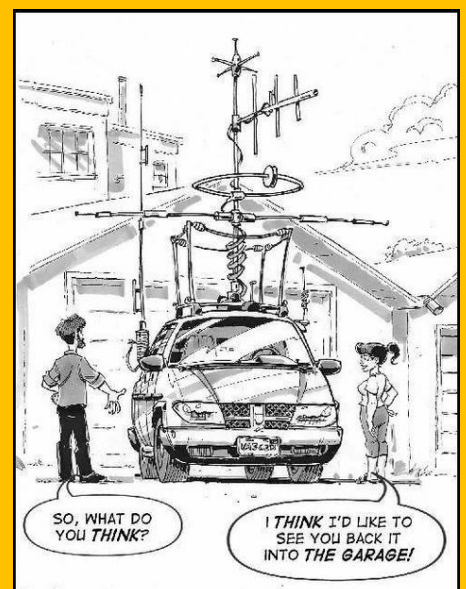
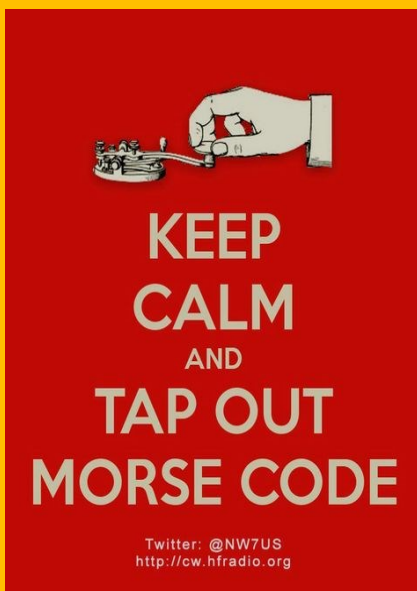


May 2023 Newsletter

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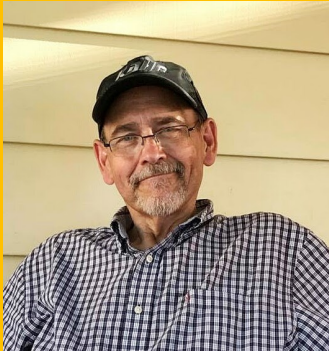




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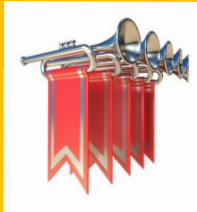
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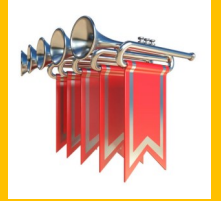
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May 2023 Newsletter



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