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MARCO's "AETHER" *Pronounced "Ether"*
Healthcare & Radio in One Medium
The Medical Amateur Radio Council

127th
Edition
2000-2021



A non-profit Corporation, founded in 1966, privately supported for the public good and dedicated to the advancement of Medicine through Amateur Radio.

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V-Day Edition

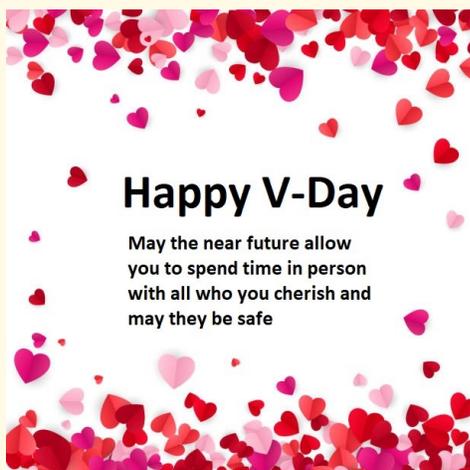
V-Day is a descriptor for many events. This issue includes articles about the status of **COVID-19 Virus** through **V-Day** in terms of **Vaccines** and **Variants** in the chase to offer immunity, a **V-Day Victory** in the making. We explore how ham radio can be a family endeavor, the sharing of our hobby with our special **Valentines** in honor of **V-Day** as **Valentine's Day**. In the spirit of this holiday it is noted that the term also denotes the [movement to end violence against women and girls](#).

Transmission and Communication

With the transmission of a SARS-CoV-2 (COVID-19) being a very communicable reality, our members, and all amateur radio operators in our hobby, are affected by this disease and pandemic in a variety of ways. Even MARCO members, with all their medical training, have not been able to totally avoid this scourge, both in their health, their families' health, and in day-to-day activities. The way we participate in our hobby has been impacted with short-term change but in a manner that will create some long-term benefits.

Many hams are accustomed to meeting in groups on-the-air, an advantage during times of lessened in-person contact. Technologies available for amplifying electronic aided group activities have been present and now have a reason to be implemented. Zoom and other similar programs have brought affordable video conferencing to our computers, tablets and smartphones for both business and personal use. Our hobby has more high-tech options as well, VOIP (voice over Internet protocol) connections such as Echolink based repeaters connecting distant hams by analog radios. An increasing number of ways to connect hams with digital radios through repeaters in varying digital modes are being implemented.

[Continued on page seven](#)



They talked to a spaceman. Bob Conder, K4RLC, set up a portable HF station on the beach at North Myrtle Beach, South Carolina, for Kids Day in June, and it will be a day his two kids remember for a long time. Bob recounts: "When I took the photo, Lauren and Boo had just talked with Kent, op for W5RRR at NASA/Johnson Space Center. He advised the kids to 'keep your eyes on the stars and follow your dreams.' He then talked about going to Mars. Six-year-old Boo had eyes as big as saucers and told everybody, 'I talked to a spaceman!'"

A Kids Day feature from the October 2001 issue of QST included this highlight of two of our members' valentines, the children of MARCO's current president-elect Bob K4RLC, and membership committee member Alanna K4AAC. This displays how family time and vacations can include a ham radio component, and also be an educational endeavor.





This is the sixth edition of the *Aether* containing COVID-19 pandemic content. See page fourteen for the five prior editions. February 2021 has arrived and much has changed as the situation is dynamic in regard to this

pandemic and our knowledge about the virus. Every day more is discovered, disclosed, shared in the literature, and in the public sphere.

MARCO keeps our dialogue about the subject on-going through our nets and google group. We look forward to your participation...

The Oracle of Knowledge

Publications in print can be sources of information but rapid changes in knowledge can dilute their accuracy. While the Internet often acts as an echo chamber of distortion and misinformation, reliable sources that serve the public and health professions do exist and kept up-to-date on a timely basis to reflect public health and verified science at any given time to the greatest extent possible.

This edition of the *Aether* is being written the last few weeks of January 2021. The links to online material within focus on dynamic content, that of which is kept current. Accordingly, the links we provide are functional at the time of publication but may not be so in the future...

Sample of Online Sources for V-Day Information

Consider the online sources below and their effectiveness in supplying accurate up-to-date data on COVID-19. Please share the Websites you employ to stay informed on COVID-19 on the MARCO google group, and explain why you have confidence in their data—marco-ltd@googlegroups.com.

World Health Organization—[WHO Coronavirus Disease World \(COVID-19\) Dashboard](#)

[Center for Disease Control](#) [NIH](#)

[BMJ—British Medical Journal](#)

[Worldometer—Worldometer World Statistics by Country](#)

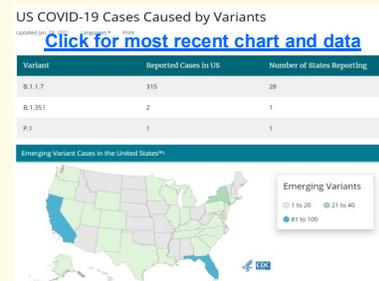
[Worldometer case statistics](#)—According to their website—“Official reports, directly from **Government’s communication channels** or indirectly, through local media sources when deemed reliable. We provide the source of each data update in the “Latest Updates” (News) section. Timely updates are made possible thanks to the participation of users around the world and to the dedication of a team of analysts and researchers who validate data from an ever-growing list of over 5,000 sources. **Worldometer’s COVID-19 data is trusted and used** by [Johns Hopkins CSSE](#), [Financial Times](#), [The New York Times](#), [Business Insider](#), and many others.”

V-Day—follow-up on Covid-19 Virus in countries featured in recent editions of the *Aether*

Online content is offered to pique your interest. Explore developing issues related to mutations and **Variants** such as “escape mutants”, and boosters.

USA

- ◇ [WHO COVID-19 USA case statistics](#)
- ◇ [Worldometer USA case statistics by state](#)
- ◇ [V-Day—CDC info about SARS-CoV-2 \(COVID-19 Variants\)](#)



Japan

- ◇ [Japan Ministry of Health COVID-19 conferences page](#)
- ◇ [Worldometer statistics for Japan](#)

India

- ◇ [Worldometer statistics for India](#)
- ◇ [Covid-19: India is at centre of global vaccine manufacturing, but opacity threatens public trust](#)

Brazil

- ◇ [Worldometer Statistics for Brazil](#)
- ◇ [Genomic Characteristics and Lineage of Variant P.1](#)
- ◇ On a recent MARCO digital voice net member Hilton PY2BBQ explained that AstraZeneca and Sinovac are going to be produced respectively in Brazil at "Fundação Oswaldo Cruz" and "Instituto Butantan". In addition, a Brazilian company is preparing to bring a [domestically created COVID-19 vaccine](#) into production soon.
- ◇ For a detailed view of [Hilton PY2BBQ’s comments about the Coronavirus in Brazil click here](#).

Continued on Page 3

Continued from Page 2

V-Day—Online content to pique your interest...

Contrast the experience of the larger countries discussed on page 2 and to countries smaller in population.

Iceland—A small island country often used for genetic studies due to the historical foundation of its population, a lineage that can be tracked for most residents back 1200 years. What about their success with COVID-19?

[Covid-19 data in Iceland—source WorldOMeter](#)

[Iceland's Directorate of Health's Covid-19 website](#)

[CDC Travel Advisory for Iceland—Jan 26 2021](#)

[Genomics and Iceland 2015 article](#)

Israel

A country with a controversial approach, making an attempt toward full vaccination of the population by sharing public health and patient data with Pfizer in exchange for being able to purchase vaccine.

[Israel and Vaccinations](#)

[Covid-19 data in Israel—source WorldOMeter](#)

[Israeli Ministry of Health Covid-19 guidance](#)

[Israeli Hamagan computer App to Alert of Exposure](#)

World Most Vulnerable Countries

United Nations

[World's Most Vulnerable Countries Lack the Capacity to Respond to a Global Pandemic Credit: MFD/Elyas Alwazir](#)

Report from Net Control Harry WB9EDP on the 40m Special COVID-19 Informational Net

Last spring, while COVID-19 attacked the planet with a vengeance, a special 40m informational medical net was formed to disseminate info on the virus. It is held on Wednesday evenings at **0030 (UTC Thursdays) on 7.222 MHz**. It was conceived and is directed Bio/Medical Physicist, Infectious Disease Specialist, Professor Harry J. Przekop, WB9EDP with the collaborative assistance of Dr. Jerrold ("Jerry") Ziperstein, N4TSC.

This special net has a worldwide listenership thanks to the ARRL's support, live-streamed (www.MARCOAUDIO.net), and archived for any time access on website, <https://marco-ld.org/>. We would like to remind everyone that the net was conceived to answer questions of all interested regarding Covid insofar as we understand, of where we are at the moment regarding Covid. We attempt to clarify and expand, what may be misunderstanding, of short sound bites from the media and answer questions from the world wide amateur radio community regardless of their scientific or medical background.

V-Day Variant Considerations

In hearing Dr. Fauci speak on Jan. 27, 2021 during a public health briefing of the COVID response team he indicated that RNA viruses mutate often although most mutations are inconsequential.

Does the longer it replicates within the population create a greater chance a mutation will occur that allows the variant to escape the antibodies, those created by vaccine or prior infection, allowing re/infection? Will variants have a competitive advantage in becoming the dominant viral strain? Can individuals with antibodies spread the disease?

I (AA4FL) remember reading the first book on the following list. It described how the poor and population dense countries of the world are breeding grounds for the emergence of mutations in viruses and zoonotic spread to humans. Brushing up on our knowledge of Virology would be desirable. We are often asked on the air what MARCO members think of COVID-19 and being informed would be of great assistance. Write our google group with books of excellence you suggest on this subject.



1995 book by Laurie Garrett *The Coming Plague: Newly Emerging Diseases in a World Out of Balance*; as reviewed in [The Journal of Law, Medicine & Ethics](#)

[Adaptive Value of High Mutation Rates of RNA Viruses: Separating Causes from Consequences](#) by

Santiago F. Elena, and Rafael Sanjuán; as appeared in 2005 in The American Society for Microbiology's *Journal of Virology*.

[Features, Evaluation, and Treatment of Coronavirus](#), a book updated Oct. 2, 2020 and available online; by Marco Cascella; Michael Rajnik; Arturo Cuomo; Scott C. Dulebohn; Raffaella Di Napoli

Member report from Canada

On Jan. 23, 2021, MARCO member Richard Jones, VE7BSP reported—Nationally, vaccines currently available are Pfizer and Moderna products. the J&J and AZ vaccines are anticipated additional products to be approved in the near future.

Current daily numbers of incidence and deaths associated with Covid are starting to drop across the country. Suspect this is related to more aggressive quarantine policies in the provinces and that vaccinations are starting to get through the highest risk patients/ LTC residents and health care staff.

In British Columbia, a 4 part plan for vaccination of the province was released yesterday. (<http://www.bccdc.ca/health-info/diseases-conditions/covid-19/covid-19-vaccine/bcs-plan-for-vaccine-distribution>).

Pfizer vaccine for Canada comes from Europe. This next week we will see no shipment from them for much of Canada. Shipments will increase in the following weeks as the additional supply comes on line.

V-DAY—Members experiences with the Vaccine(s)

Our members have started to be vaccinated to hopefully obtain Covid-19 immunity. Some have written in to present their experience, including side effects with the 2nd dose, nothing serious, but a factor to be aware of in planning your activities.

Andy N4QY—"As a front-line provider - working on COVID wards, ER's and Urgent Care settings, I was privileged enough to be one of the first physician's in our nation to receive the COVID-19 vaccine. I received the Pfizer product and actually felt less pain than I did with this year's flu shot.

The second vaccine was scheduled for 21 days later. Two days prior to the final vaccine, I utilized the "FaStep" Rapid Antibody Test for COVID-19 - testing for both IgM and IgG. Throughout the pandemic I had not contracted the illness and had been tested multiple times. So, I felt that if I developed any antibodies, that it would be solely due to the vaccine. I did test positive for both IgM and IgG. About 13 hours after receiving the second vaccine, I developed shaking chills, severe arthralgias and skin hypersensitivity. It was a long night and I was worn out the following day. In fact, I had to take the day off of work. My symptoms completely resolved as the day wore on and I was able to get a good night's sleep.

One week later, I repeated the rapid antibody test and was happy to see one of the strongest positive IgG tests that we have seen in our clinic."

Chip N5RTF—Chip had the first dose of Pfizer vaccine with no ill effects. Upon receiving the 2nd dose he had dizziness that cleared in 20 minutes, allowing him to drive home. He was fatigued with a one degree elevated fever the next four days. Following that he had a few days of severe pain in his right knee, with no other identifiable source.

Dave KN2M—After one of my work partners died last month from COVID, my ID hospital colleagues really emphasized getting the Pfizer vaccine as soon as possible.

The first dose left me with a sore arm, similarly to what one would have after a tetanus toxoid. I went about 10 days before I could say that I had any obvious clinical associated symptoms. I felt "mushy" for a day or two but had constant GI symptoms which were not associated with food or any other cause. I even went to discuss my prolonged symptoms with my internist yesterday. He was reassuring and felt there was no contraindication to receiving the second dose.

The second dose was administered about 1:30 PM on a Friday. I spent the rest of the afternoon seeing patients and slowly developed a sore deltoid muscle. I had no other symptoms, had a normal dinner at about 7 PM. No one else was ill over night. We all ate the same items. At 1 AM, I started to feel some abdominal cramping and by 1:30 AM, I was acutely doubled over with cramping pains and very loose liquid stools. I then developed shaking chills, which finally abated in an hour and a half. I was afebrile but the severity of the chills had abated. Finally, about 4 AM, I was able to drift to some sleep since the shaking had left and not returned.

...continued

Family Fun with Amateur Radio

Jeff Wolf K6JW—Jeff and daughter Laura have shared many amateur radio adventures. In 1989, 11 year old Laura, became fascinated with the two meter radio in his car. When she told him that she thought it would fun to have a license, he offered to elmer her. Over that summer vacation they spent "quality time" exploring theory and code. In September, she passed the exam for her license and immediately got on the air. At that time, she was the youngest ham on the Palos Verdes Peninsula.

In 1996, Jeff changed his callsign from WA6DAL to his present callsign, K6JW. He was delighted when, two years later, his former callsign became available and she applied for his call. Today she's still WA6DAL.

There so much more Jeff has to tell, including a lot of family ham radio fun. [Click for the entire article](#)

Ron Wilcox KF7ZN—Ron recently joined MARCO and has been an active participant, one who has already provided valuable input.

Licensed in 1984, Ron found his way back into ham radio activity recently after being enticed by his son.

Ron has a wonderful story to tell of family and amateur radio, [check to view](#). In addition even more great family fun information can be viewed on his very well written and pictorial QRZ page, <https://www.qrz.com/lookup/KF7ZN>.

John Spitznagel N4CQY—John is the father of member Jack KD4IZ. He turns 98 this year and lives in Chapel Hill NC, fully retired after a long career in Internal Medicine, research focus and specializing in Infectious Disease.

John served for a dozen years in the US Army Medical Corps, then moved to academic medicine. He was a faculty member in Microbiology and Infectious Disease at UNC Chapel Hill, then moved to Emory University. At Emory he was chair of Microbiology, then was associate Dean for Research at the medical school.

continued...I had virtually nothing substantial to eat in the morning, other than clear liquids, until I was satisfied there was no ileus from the pain earlier. While, acute GI symptoms are not unusual with this vaccine, I was very surprised how quickly my physical being was overwhelmed in such a short period of time by the immune response.



Another member—one week post 1st dose of the vaccine this appeared. Upon exam his internist reported he had seen this in other patients, as a reaction to the Moderna vaccine.

AlterG Anti-Gravity Treadmill

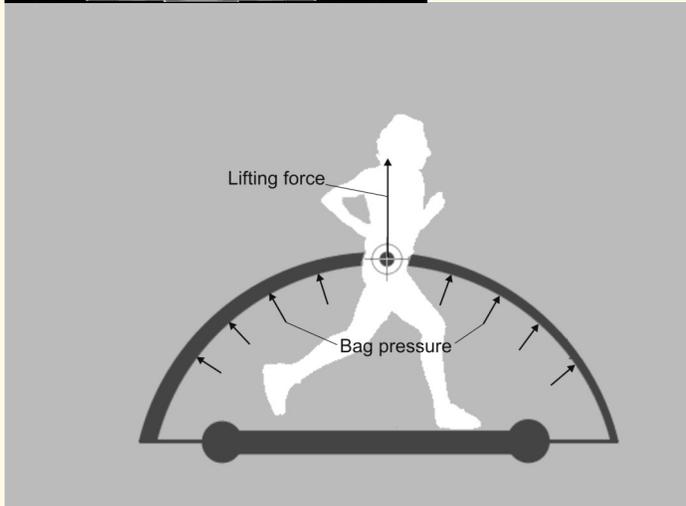
Consider the implications of gravity on the healing process in regard to orthopaedic injuries.

Envision a treadmill that could reduce the effect of gravity on the body during earthbound exercise and the implications on therapy.

Links follow to pique your interest on this possibility, one the projects Dave KT8E has worked on....

- AlterG.com
- [Clinical information](#)
- [Case Studies](#)
- [Video Presentation](#)

This product is being shown as an example of the various types of professional interests within the health fields that MARCO members have, their professional competencies, and their contributions to medicine and society. This is not a product endorsement.



MARCO Webmaster—Member Profile

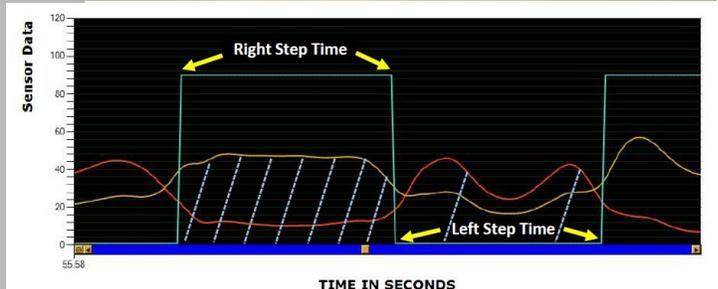
MARCO member Dave Lieberman, KT8E, is an EE who graduated from the Univ. of Michigan. Dave cut his teeth in the realm of medical imaging, developing software for Nuclear Medicine, Gated Cardiology, and Digital Subtraction Angiography.

Dave's father was Dr. Lee Lieberman, W4JMA / 4X1LL, a longtime MARCO member who specialized in Internal and Nuclear Medicine. (Silent Key in 2020)

Dave serves as our volunteer Webmaster, designing our current version of www.marco-ltd.org, which is in its 3rd generation. This modern site allows plug-ins to assist with the running of the organization. His stepdaughter Kim Anderson assists with processing MARCO's annual invoicing, (wo)man power sponsored by Dave's company.

His company is Physio Systems Inc. – an engineering company in Tracy, CA. They develop hardware and software solutions for business and medical applications. As (DBA) Computer Methods, they develop the firmware that controls bag pressure and treadmill speed for the product on this page (written in C), and provide the application software that operates the system through a touch screen and reports performance metrics (written in C# and WPF – Windows Presentation Foundation).

Their latest project, dubbed "Flamingo", is an app on an iPhone or Android that allows the therapist to monitor the patient's treadmill session remotely, thus promoting proper social distancing while interacting with the patient.



MARCO Nets

Special COVID-19 Information Net

COVID-19 INFORMATION NET

Led by MARCO Members

7.222 MHz
0300 UTC
Thursdays



Live stream audio and archives

A medical information net on COVID-19—following NIMS protocols—will be held at 0030 UTC Thursdays on 7.222 MHz, hosted by Biomedical Physicist and Infectious Disease Specialist, Professor Harry J. Przekop (WB9EDP), assisted by Dr. Jerry Ziperstein (N4TSC).

This special net has a worldwide listenership and will be live-streamed at www.MARCOAudio.net and archived on the website for anytime access. You do not have to be a medical professional to participate.

Weekly Net Category II CME—on the HF Bands

Medical Topic Discussions of Interest to all

Our Radio-Internet Coordinator Chip Keister, M.D., N5RTF, New Orleans, LA... [livestreams our net online](#). Check into our nets and earn CME. For times when propagation is poor when you would benefit from audio from another receiver, if you are away from your radio, in a skip zone, or unplugged due to thunderstorms, join the MARCO CW net and Grand Rounds by live [internet streaming audio](#). These are recorded to [listen in later to the online archive](#).

To Listen:

1. Use a browser to go to the following web page which has a player app and **links to the audio stream and archive:** www.marcoaudio.net.
2. The second way is to manually enter <http://marcoaudio.ddns.net:8011/stream> into a standard music player on computer, phone, or portable device **while the net is in progress**.

Feel free to share these links with anyone, MARCO member or not. No login or password is required. There is room for 100 listeners at a time. Comments are appreciated.

Chip N5RTF

Weekly MARCO Medical Grand Rounds Net

The Medical Amateur Radio Council Organization (MARCO) conducts weekly Grand Rounds on Sundays at 1500 UTC (summer months) and 1600 UTC (winter months) on 14.342 MHz. Physicians from many specialties, including naval flight surgeons, biomedical physicists, infectious disease specialists, trauma surgeons, dentists, and many others discuss informative, and timely medical topics. The Net has worldwide listenership and contributes to dissemination of medical and public health awareness. MARCO live streams the Grand Rounds net audio on their website at www.MARCOAudio.net.

MARCO Grand Rounds Net

Led by MARCO Members

14.342 MHz
1500 UTC
Sundays

Live stream audio and archives

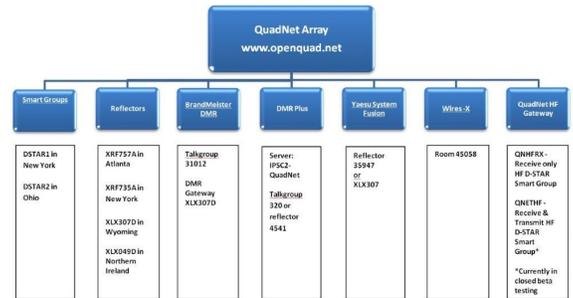
Founded in 1966, MARCO's mission is to promote goodwill and fellowship among amateur radio operators who are professionals in the healing arts or who have an interest in medicine, dentistry, and allied fields. MARCO is open to all licensed amateur radio operators who are healthcare professionals or affiliated with the medical industry. MARCO participants may receive one hour of Category 2 CME credit per Grand Round presentation.

On-air network operation is an integral part of MARCO activities and is conducted for the purpose of discussing and exchanging medical and technical information and, whenever possible, to be a public service by passing emergency and priority traffic. All General class or higher (and their international equivalents) licensed amateurs are welcome to check in.

MARCO DV NET

Our MARCO Digital Voice net meets weekly on Saturday at 1500 UTC on the QuadNet Array. Discussion of this meeting venue including the technical aspects, instructions for logging in, and obtaining equipment are included on pages seven and eight of this edition of the *Aether*. Net control is Jay AA4FL, with technical assistance from Jack KD4IZ

There are numerous benefits to MARCO including a net in the digital modes on the VHF and UHF bands assisted by VOIP linkage, or directly by USB DV sticks. For those of our members who are HF antenna challenged MARCO net discussions are now possible. There are no concerns about HF propagation, no QRM, QRN, QSB. This allows for roundtable discussions that can effectively be led by net



control.

There is a learning curve to getting on the net but MARCO but members are present to assist you every step along the way. Our next training session is by way of Zoom on Saturday Feb. 13th at 1400 UTC. The meeting is ID: 879 8000 2019, and the Passcode: 232706

MARCO CW NET

The Bob Morgan Memorial Net

Our CW net is held every Sunday one half hour before the *Grand Rounds on the Air* net, at 09:30 central time, currently 1530 UTC, on 14.140 MHz. Net control is Chip N5RTF. The net is named after the late MARCO member Dr. Bob Morgan, VE3OQM.

At times in the in the past the net was on the same frequency as the *Grand Rounds on the Air* in an effort to hold the frequency for the voice net to be in the clear at the top of the hour. The net today means so much more to MARCO...

You are invited to participate. With radio license issuance in the US dropping the morse code requirement there are many members who have not had experience with CW. Our net is a great way to gain CW proficiency.

There are many advantages to learning morse code, a yes-brainer. There is increasing evidence that not only GM plasticity but also changes in white matter are important in the context of learning processes, see <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5526915/>.

Use CW through the MARCO net to keep those neural connections intact and resist the aging process! Links to other sources follow. Add to the discussion by posting to the MARCO google group: marco-td@googlegroups.com

[ARRL resources for Morse Code](#)

[Morse Code Instruction Learning. YouTube Options](#)

[Code Buddy Volunteers](#)

WRITE TO US!
 We welcome your comments.
 Email to
aether@marco-ltd.org

Letters and articles may be edited for brevity & clarity.

Unedited member article submissions made available through links, and linked online material are not the opinions of MARCO. Graphics selected are the choice of the editor and not of MARCO-ltd.

MARCO NET SCHEDULE

DAY	TIME	FREQ.	NET CONTROLS
Any Day	On the Hour	14.342	Hailing Frequency
Sunday	10:30 a.m. Eastern	14.140	CW Net, Chip, N5RTF
Sunday	11 a.m. Eastern	14.342	Warren, KD4GUA
Wednesday *	7:30 p.m Eastern	7.222	Harry WB9EDP

MARCO'S CW NET IS NOW CALLED THE "Bob Morgan Memorial Net"
 Sundays, 14:30 UTC, 14.140 MHz

Page 7

MARCO Grand Rounds is held Sunday at 11 a.m. Eastern Time; 10 a.m. Central; 9 a.m. Mountain, and 8 a.m. Pacific Coast time on 14.342. You qualify for one hour Category II CME credit with your check-in. * The Wednesday net is a member led discussion net held during the COVID-19 crisis. *

Transmission and Communication continued from page one—

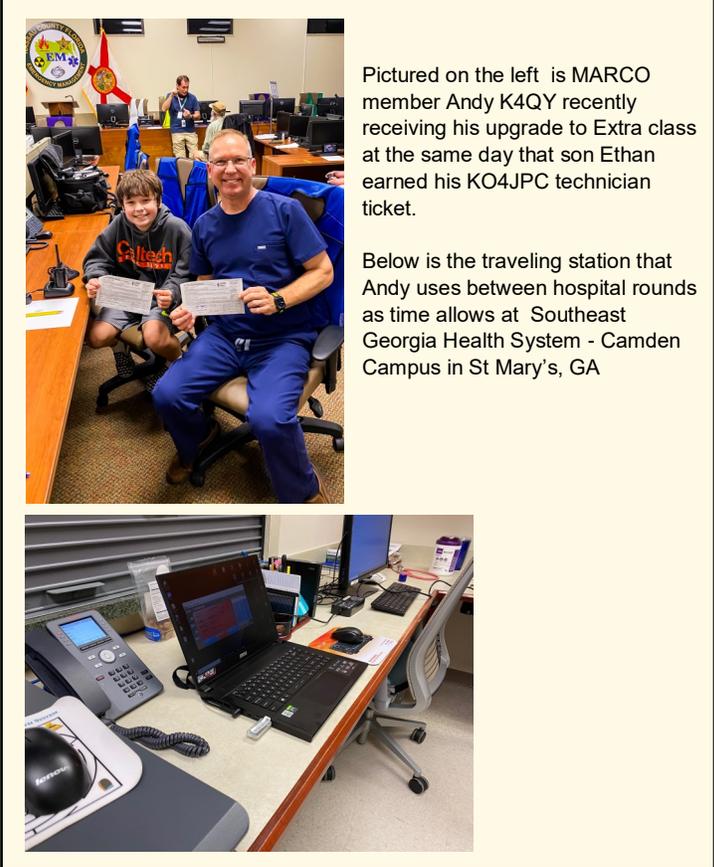
Radios in tandem with computer connected equipment such as hotspots increasingly are being used on on-ramps for word-wide connection of hams radio operators.

MARCO has a new DV (Digital Voice) net that meets on Saturdays at 1500UTC. We have chosen to use the [QuadNet Array](#), an IRC or Internet Chat Facility that acts like a universal translator between difference digital modes and allows hams who identify by callsign to connect with other users of digital radios world-wide through interconnected reflectors and talk-groups. See their website for more details, including how to connect, within the <https://www.openquad.net/> webpage. Special thanks are due to KD4IZ, Jack Spitznagel, a past member who recently rejoined, who led the way to getting the net a reserved time and offered technical assistance to members for joining in.

See page eight for details of our Feb. 13 Zoom meeting that will allow you to receive training in how to join and use our MARCO DV net.

Below is a screenshot of net control Jay AA4FL's laptop as he ran the DV net on Jan. 23, 2021: There are three windows open:.

The background image is the program [netlogger](#) being implemented for an online session of our net, allowing check-ins to be recorded by net control and check-in stations, and the ability to save the list for future reference. Many HF and Zoom nets use the same software.



Pictured on the left is MARCO member Andy K4QY recently receiving his upgrade to Extra class at the same day that son Ethan earned his KO4JPC technician ticket.

Below is the traveling station that Andy uses between hospital rounds as time allows at Southeast Georgia Health System - Camden Campus in St Mary's, GA

Continued on page eight

See the description above and on page eight

The screenshot shows the NetLogger 3.1.5 interface. At the top, it displays 'Net Status and Control' for 'MARCO DV Net QuadNet Array'. Below this is a table of check-ins with columns for Call Sign, M/P, Status, Member ID, Remarks, QSL Info, City, Name, Status, RST, RST Rev, Sent, County, Grid Square, Street, Zip, XCC, Country, and Award Info. A 'Contacts' window is open in the bottom left, showing a list of members. In the bottom right, a DMR control panel is visible, displaying 'CALL JA0BXP DV4M', 'NAME ETSUO', and 'INFO ETSU. TOCHIGI, JPN'. The interface also shows a 'Log Contact' button and various status indicators for DMR, DSTAR, and FUSION.

MARCO DV Net—continued from page seven

The lower left window of the image on page seven displays a feature of netlogger, a live chat features allowing users to ask questions and to offer input to net control.

The third window in the page seven screen capture displays BlueDV software which was used for contact with JA0BXP through a USB DV stick to gain access to digital modes and the net on Jay's laptop. The sticks use a Digital Voice System's AMBE-3000™ Vocoder Chip, allowing for the use of multiple digital voice modes.

Equipment Considerations

Link to BlueDV for windows <https://www.pa7lim.nl/bluedv-windows/>. Other Operating systems are supported as well.

Link to the USB DV stick used <https://www.pa7lim.nl/ambepage/>

Jay AA4FL uses his DMR HT at with a hotspot connected to his WiFi network at home, and is working on a car connection to WiFi in the car through the cell phone, allowing contact while on road trips where repeater coverage is not present. Hotspots and HTs in the \$100 range can be used. You are not limited to DMR. The hotspots support multiple digital modes including D-Star and more...



Hotspots vary in cost and interface. The inexpensive Chinese one pictured here runs on a Raspberry Pi. The configuration page for set-up is displayed below. Additional pages in the interface include displays of stations received, and much more. The hotspot is very small, a lot of power in a tiny package, a VOIP gateway for your digital radio.

Pi-Star Digital Voice - Configuration

Dashboard | Admin | Expert | Power | Update | Backup/Restore | Factory Reset

Gateway Hardware Information			
Hostname	Kernel	Platform	CPU Load
pi-star	4.19.97+	Pi Zero W Rev 1.1 (512MB)	0.19 / 0.18 / 0.11
CPU Temp			
Control Software			
Controller Software: <input type="radio"/> D-StarRepeater <input checked="" type="radio"/> MMDVMHost (DV Mega Mileage Firmware 3.07 Required)			
Controller Mode: <input checked="" type="radio"/> Simplex Mode <input type="radio"/> Duplex Repeater (or Half-Duplex on Hotspots)			
[Apply Changes]			
MMDVMHost Configuration			
Setting	Value	Setting	Value
DMR Mode:	<input checked="" type="radio"/>	RF Hangtime:	20
D-Star Mode:	<input type="radio"/>	Net Hangtime:	20
YSF Mode:	<input type="radio"/>	RF Hangtime:	20
P25 Mode:	<input type="radio"/>	Net Hangtime:	20
NXDN Mode:	<input type="radio"/>	RF Hangtime:	15
		Net Hangtime:	20
YSF209R:			
YSF2NXDN:			
YSF2P25:			
DMR2YSF:		Uses 7 prefix on DMRGateway	
DMR2NXDN:		Uses 7 prefix on DMRGateway	
POCSAG:		POCSAG Paging Features	
MMDVM Display Type:	OLED Type 3	Port:	/dev/ttyAMA0
		Nextion Layout:	G4K4X

MARCO DV NET

Zoom Training Session and Log-in Information

follow the description of net activity

Net Activity

Our new MARCO Digital Voice net already has a following, many who are regulars on the *Grand Rounds of the Air* net. In addition new MARCO net participants members check-in who live in antenna restricted communities, have technician licenses, have been left out of our existing nets for propagation reasons, and focus operation on the digital aspects of amateur radio.

Check-ins have included members JA0BXP, PY2BBQ, VE7BSP, KD4IZ, K4QY, WW9F, AA4FL, WJ8B, KT8E, N5RTF, WA1EXA, KD9JTU, N4TSC, and WD9GET checking in from Moscow.

Zoom Training Session—Saturday Feb. 13th @1400 UTC

Meeting ID: 879 8000 2019

Passcode: 232706

[Click here for a direct link to the Zoom session](#)

[Click for a video of our Jan. 30, 2021 Training Session](#)

MARCO DV net log-in Information

The QuadNet Array that hosts our net consists of the following linked reflectors, routed Smart Groups, DMR and C4FM:

QuadNet Smart Groups

- DSTAR1 located in New York
 - DSTAR2 located in Ohio
- D-STAR Reflectors:

[XRF757A](#) in Atlanta
[XRF735A](#) in New York

[XLX307D](#) in Wyoming

[XLX049D](#) in Northern Ireland

DMR

[Brandmeister](#) talkgroup 31012
DMRGateway to [XLX307](#)

- DMR+ Reflector 4541

YSF Reflector

- Reflector name: [US QuadNet Array](#), number 35947.

US C4FM NA YCS310 Server

- DG-ID 80

MEMORIES OF YEARS AGO IN MARCO Our History Book

Ten years ago in MARCO—February 2011

President: Linda Krasowski, RN, KE5BQK
 Past President: Harry J. Przeworski, WB5ECP
 Pres. Elect: Mary Favaro, M.D., AE4BX
 Secretary: Danny Centers, EC, W4DAN
 1st Master: Bruce Small, M.D., KM2L
 2nd Master: Lou Wiederhold, M.D., WA1HGE
 Radio-Internet: Chip Keister, M.D., N5RTP
 MedShare: Arnold Kalan, M.D., WB6CJB
 News Editor: Warren Brown, M.D., KD4GUA

Official Publication of the Medical Amateur Radio Council

67th
Edition
2000-2011

A non-profit Corporation, founded in 1965, privately supported for the public good and dedicated to the advancement of Medicine through Amateur Radio.

Web Site: <http://www.marco-ld.org>
 Internet address: warrenbrown@aol.com

Vol. XXXIV, (35th year), Edition #67 (since Year 2000), February 2011 P.O. Box 127, Indian Rocks Beach, FL., 33785-0127

WHAT IS NARCOLEPSY ?

CONDITION CONTROLLABLE NOT CURABLE. ABRUPT DAYLIGHT SLEEP ATTACKS CAN BRING ON AUTO ACCIDENTS AND FALLS.

A CONDITION AS COMMON AS PARKINSONS & M.S. IS USUALLY NOT DIAGNOSED FOR 10 YEARS



Narcolepsy is a chronic neurological disorder caused by the

Click on image above for the full edition

- MARCO's 2011 annual meeting details were presented. President Linda KE5BQK and Bernie KD5QHV served as hosts with the meeting being held in El Paso.
- Medical articles included the cover article of Narcolepsy, and the differences between brand name and generic drugs was included in an article.
- An article on electronic records was included as well as one on the emergence of cloud computer services, informing members of new possibilities that could impact us in the future.

Twenty Five years ago in MARCO—February 1996

The **MARCO NEWSLETTER**
 Official Publication of the Medical Amateur Radio Council, Ltd.
 Polycarp Gadegebeku, M.D., WB4LPC, President
 Ira Wexler, M.D., W3HEF, President-Elect
 William L. Sprague, M.D., WA6CRN, Secretary
 Alfred E. Greenwald, M.D., WA2CBA, Treasurer
 Edward R. Briner, D.M.D., WA3TVG, Editor

VOL. XVIII NO. 7 FEBRUARY, 1996

CATEGORY II CME CREDITS TO BE EARNED FOR GRAND ROUNDS PARTICIPATION

by Robert D Currier, M.D., WB5D

Year long efforts to develop a plan for the MARCO physicians who participate in the Sunday morning Grand Rounds, to earn CME credits, has resulted in a successful plan, that will begin immediately.

The question of graduate medical education credits for MARCO Sunday Morning Grand Rounds has been examined with the following results. Category I credit requires lesson plans, previous approval and testing afterwards, which would make it all but impossible to fulfill in the present Grand Rounds format. However Category II credit can be given. Our U. of Mississippi Medical Center Health Professional Education people called the Association Council for Graduate Medical Education.

Click on image above for the full edition

- The lead article by Dr. Bob Currier, who *The Grand Rounds* net is currently named for, wrote about the creation of CME category II credit for participating in *The Grand Rounds*, an integral part of MARCO and perhaps the favorite feature of our organization that still continues to this day! Happy 25th Anniversary CME II credit!
- An article about electromagnetic fields exploring a connection to cancer was included.
- The status of Medicine in Canada was explored
- The last page lists the net schedule. MARCO had numerous nets and members as net control, including multiple nets on different bands, 75m, 40m and 20m.

Happy 25th Anniversary CME Category II credit



to the *Bob Currier Grand Rounds on the Air*
our 20m Sunday morning net

Who was Dr. Bob Currier?

Dr. Bob Currier instituted one of the cores values of MARCO, making CME credit obtainable by enhancing a ham radio feature, the on-the-air net, with credit for self-improvement through radio participation, in the format of Grand Rounds. In the words of Bruce KM2L, Warren KD4GUA, and Chip N5RTP, Bob was an omnipresent and integral leader of MARCO.

Bruce Small KM2L remembers "Bob's cheerful good nature, his honest appreciation for the skills and accomplishment of others, his steady, optimistic demeanor, his brilliance and his humility. For example, it was not until after he had passed that I learned that he was the long-time editor of the Handbook of Neurology. Bob was a giant of MARCO, a class-act, easy to like and to respect."

There were also colorful stories and warm memories of Bob reported by Warren, as an individual and mentor "On Feb. 16, 1993 I fulfilled my life-long ambition to become a HAM! I had previously belonged to the Radio Club in High School but during the ensuing hectic years I was unable, due to practice, wars, etc., to partake in this wonderful hobby. I became connected to MARCO in 1995 and joined the Grand Rounds of the Air, along with net controller Robert Currier WB5D. Bob was a short man with a "Cronkite" voice, perfect for his job as net controller for MARCO."

Warren KD4GUA remembers Bob in the establishment of CME Cat II "He figured if we had permission to use our air time as CME credits we could pick up a few more docs...He succeeded by getting the University of Mississippi Medical School to back his suggestion. Thus we were given the OK to offer 1 credit Category 2 credit to those States accepting it for each listening hour and the MARCO base became solidified." Warren would later, and to this day, assume this role for MARCO, being net control, tracking participation, arranging for, and issuing CME II credit slips.

Bob's WWII actions includes Warren's characterization that "Bob enlisted in the Air Corps but because of his color blindness he was made a "gunner" and radioman on B-17s in Italy. Part of his duty as radioman was to let loose a trailing antenna for communication. One day he forgot to haul in the antenna and on landing the weighted wire struck a farmer on a tractor and knocked him off the tractor. Needless to say a big ruckus was raised but Bob got off clean."

Chip N5RTP explained on a recent DV net that he became affiliated with MARCO and Bob when he was a medical student at the University of Mississippi. Chip wrote me with many more memories of Bob. [Click here for Chip's wonderful reflection on Dr. Bob Currier.](#)

MARCO BOD Meeting by Zoom Jan. 16, 2021

Minutes—MARCO held a board of director meeting by Zoom on Jan. 16th. All members were invited to attend, and thirteen were present. The meeting convened at 1601 UTC by President Bruce KM2L.

Introductions—were made Present were KT8E—Dave, KM2L—Bruce, N8CL—Chuck, AA4FL—Jay, N5RTF—Chip, K6JW—Jeff, K4RLC—Bob, KD4IZ—Jack, KF7ZN—Ron, WW6AA—Merrill, K4AAC—Alanna, WW9F—Jeff, and N4TSC—Jerry.

Minutes approval—the minutes of the prior meeting held on August 15, 2020 were reviewed by Jay Garlitz and were approved without changes. The Treasurer's Report was presented by Chuck Lind N8CL and approved.

Secretary report—Jay, AA4FL, reported on the make-up of our membership, as listed in the text box that follows the minutes. We have 216 members in good standing and retain between 90-95% of our members each year. He also advised the board of membership considerations, the manner in which new member applications are received and processed. He also described how we contact members to encourage retention of existing ones, and ones who are in arrears, past members who we target for rejoining with various strategies.

Treasurer report—Treasurers report was provided by Chuck N8CL, for both MARCO checking accounts. One account is for administrative functions and the other for activities/MediShare. The activity account has designated funds within and the balances of each were provided.

Due to the need for treasurer Chuck to leave the meeting one item of new business was entertained at this time. A discussion of implementing a new unified dues structure was presented by the treasurer and secretary. A request to make dues the same for regular and associate members was honored. It was noted that member benefits are essentially the same for both categories but there was a lot of confusion from members on which category they belonged to, especially as they transitioned to retirement. The proposal present was approved with a one year membership being \$25, two year \$45, and five year \$100.

It was also decided that members age 90 and older would have their dues waived. Discretion was afforded the membership committee as to extend this to new members.

MediShare report—from Arnold—WB6OJO as received by email in tandem with telephone discussion was presented by Jay—AA4FL

Newsletter Report—Jay, AA4FL, presented a newsletter report on the activities of Warren—KD4GUA and Jay as being joint editors of the *Aether*. He reported no issues with the approach of alternating edition production between the two of them. The benefits of alternating an edition in print and one as online issue were explained, allowing follow-up for those who have outdated mailing addresses, and the same for emails, based on returns as undeliverable.

Webmaster report—presented by Webmaster Dave, KT8E. Ron KF7ZN recommended that we have a feature where new visitors receive a welcome message, and we offer improved net listings.

Nets—Chip, N5RTF, provided a report on the CW net. Ron KF7ZM suggested links to CW support information be included with info about the net and that a banner be included on our Website's main page for a visual highlight of all our nets without doing many click throughs. Jerry gave a report on the Covid-19 40m net.

Old Business

Annual Meeting—President Bruce, KM2L, announced our annual meeting will be virtual this year as HamVention has been cancelled. Date TBA.

Dxpedition 2022—Reports made by Alanna K4AAC, Bob K4RLC and Jay 2022. This trip is being designed for MARCO members to join in, still under planning. See the February edition of the *Aether* for more information

New Business

Bylaws Change—An additional regional board member position was added. This new member will be a "DX" member, in addition to the existing ten callsign area regional directors.

[You can view a copy of the updated ByLaws by clicking here](#)

Scholarship—Our policy has been to review the performance and implementation, and fund our MARCO scholarships every two years. A motion was made and approved to drop our sponsorship of an annual \$500 FAR, Foundation for Amateur Radio, scholarship and to use those funds to increase our existing \$500 ARRL Foundation scholarship to \$1000 per year. A motion was made an approved to fund the ARRL scholarship for two years at this time, issuing a check for \$2000.

Before issuing these funds the balance in our designated scholarship fund was \$8050, thus we have funds on hand to fund the ARRL scholarship if desired through 2029 without further fundraising.

WebSDR streaming—member Jack KD4IZ reminded us that there are many Web based SDR station that offer streamed audio. Even if you have HF antennas and receive the *Grand Rounds on the Air net*, in addition to the stream Chip offers MARCO, you may choose/tune a WebSDR radio signal stream that best makes available the signals that you cannot hear directly on the air due to propagation patterns. This would allow you to hear more of the participants on the net, getting a better overall experience of listening to the net activity.

Next BOD Meeting—Date and Time TBA

Motion to adjourn made by Bob K4RLC at 17:54 UTC, seconded by Jeff K6JW

MARCO Membership Statistics as of Jan. 16 , 2021

216 members in good standing

29	Due Jan. 2021
140	Due Jan. 2022
8	Due Jan. 2023
5	Due Jan. 2024
2	Due Jan. 2025
4	Due Jan. 2026
2	Due Jan. 2027
3	Due Jan. 2028
5	Due Jan. 2029
3	Due Jan. 2030
4	Due Jan. 2031
11	Complimentary (includes students)

55 Past members in arrears

12	Last paid in 2015
10	Last paid in 2016
4	Last paid in 2017
13	Last paid in 2018
16	Last paid in 2019

GREETINGS FROM YOUR PRESIDENT

February 2021



Greetings from upstate New York!

MARCO held an online Board meeting on January 16. My sincere thanks to the baker's dozen or so who participated, sharing their knowledge, perspective and wise counsel. We acted on a couple of substantive matters. As

suggested at our previous meeting, the Bylaws have been updated to create a Director position reserved for a member who lives outside the U.S. We have also restructured our dues in a way that is less confusing. The details can be found elsewhere in this issue. There are many other exciting projects afoot, including a 2022 Dxpedition to the Caribbean, a growing MARCO presence on DMR, a possible collaboration between MediShare and another long-established amateur radio group, and some ideas for improving the continuity and availability of our Sunday morning Grand Rounds.

The Dayton amateur Radio Association recently announced that the 2021 HamVention has been canceled, as the country is not yet where it needs to be in regards to Covid. That being the case, MARCO's annual meeting will be virtual once again, and we will plan to gather in Ohio in 2022.

Speaking of dealing with Covid, I spent the past week attempting to schedule vaccination for my wife and myself, once the eligibility requirements were expanded to include us. Local pharmacies didn't have vaccine and were not booking appointments. The county government was only dealing with front-line workers. Finally, the State opened up vaccination venues, including one in our geographic area. The Website immediately crashed, and remained inaccessible for most of its first day. Finally, after over 200 attempts, I was able to log in and obtain appointments for us... if they have vaccine at that time. A year ago, none of this was on anyone's radar. It has been quite an incredible year, hasn't it?

On a brighter note, the opportunity to spend more quality time with my radio has paid a dividend, and I recently was able to finish up 5BDXCC.

Stay well, everyone, and stay active. We value your participation in MARCO!

73, *Bruce*, KM2L



MARCO OFFICERS, 2020-2021

Mailing addresses for the are on QRZ.com.
E-mail is preferred, phone contact info is provided for the President and Secretary only.

President: Bruce Small, M.D., KM2L
KM2L@arrl.net
P: 716.713.5597

President-Elect: Bob Conder, Psy.D., K4RLC
Bconder@yahoo.com

Secretary: Jay Garlitz, D.M.D., AA4FL
jay_aa4fl@gmail.com
C: 352.246.6003

Treasurer: Charles Lind, M.D., N8CL
charles.lind@gmail.com

Web Master: Dave Lieberman, KT8E
dlieberman@computer-methods.com

Radio-Internet Coordinator: T. "Chip" Keister, M.D., N5RTF
n5rtf@tkeister.net

MediShare Director: Arnold Kalan, M.D., WB6OJB
wb6ojb@yahoo.com

Newsletter Office: Warren J. Brown, M.D., KD4GUA
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REGIONAL DIRECTORS:

(1st call district) Don Arthur M.D., J.D., K1DCA
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(8th call district) Roger M. Higley, D.D.S., W8CRK
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(9th call district) Bill T. Hargadon, (Chaplain) WA9HIR

(0 call district) Carlyle Rowland R.N., N0ARN
cbrnurse@gmail.com

(Dx director) TBD

DIRECTORS-AT-LARGE:

Prof. Harry Przekop, M.P.H, PA, Biophysicist/Medical physicist,
WB9EDP, hprzekop@aol.com

Arnold Kalan, M.D., WB6OJB, wb6ojb@yahoo.com

Chip Keister, M.D., N5RTF, n5rtf@tkeister.net

Jeff Wolf, M.D., K6JW, k6jw@arrl.net

Jerry Ziperstein, M.D., N4TSC, n4tsc@arrl.net

MARCO Net and Meeting Etiquette

As explained in context on Nov 15, 2020 by President Bruce Small KM2L in a google group post MARCO's mission is clearly stated in our Bylaws:

"The purpose of the Medical Amateur Radio Council, Limited, is to promote good will and fellowship among amateur radio operators worldwide, who are professionals in the healing arts, or who have an interest in the various medical, dental and allied fields which constitute the healing arts. On-the-air network operation is considered an integral part of the organization's activity, and is conducted for the purpose of discussing and exchanging medical and technical information, and, whenever possible, to be of public service by assisting medical emergencies and other priority traffic."

Every MARCO member contributes something unique and valuable to the organization. We each bring our own viewpoint, experience, education, record of achievement and level of involvement. In order to promote the good will and fellowship to which we aspire, it is expected that we treat one another with respect and dignity, and that we recognize the contributions of others. This is most important in public venues such as our HF nets. Others are listening, and they will develop an unfortunate and distorted view of us if they overhear arguing and rancor.

Of course, we all have our opinions. Life and MARCO would be boring, indeed, if we all agreed about everything! I am calling on our net participants to express those differences of opinion in a courteous and respectful manner, most especially when we are in public.

Member Dxpedition 2022

Another vacation style Dxation trip designed for members, spouses, family and friends of MARCO is being planned for May 2022.

Plans are underway. One flight to Dutch Sint Maarten coupled with a drive to the French Saint Martin side of the island provides two DXCC entities on one island. Let us know ASAP if you would like to participate, contact AA4FL.

- May 24-31, 2022 Dutch and French St. Martin, including two team entries in the CQ WPX CW contest

Planning is complicated by the possibility that even after vaccination COVID-19 could still be an issue as variants may arise leading to island restrictions.

Additional add-ons are being explored for a smaller group to extend their trip as Ferry rides to Anguilla and St. Bartholomew are less than one hour away.

- May 31-June 6, 2022 St. Bartholomew
- June 6-13, 2022 Anguilla, including an entry in the ARRL VHF contest focusing on 6m



MediShare International News

Arnold Kalan, WB6QJB, Director



Take this opportunity to send a donation in recognition of a member's exemplary service to MARCO or in memory of a member's loss, and assist MARCO's way of helping the less fortunate worldwide. For more details about MARCO's Project MediShare and the types of projects it [supports click here.](#)



Thanks to Jeff K6JW, and Rowie Wolf for their continuing tradition of a year end donation to project MediShare, made once again in 2020.

When Warren Brown was notified that dues were waived for our 90+ year old members he mailed in a check for the amount dues would have been paid as a donation to project MediShare.

Donations from members and friends help us to fulfill our mission. Let us know if you would like to be involved with supporting and fostering our work by joining our committee. MediShare@marco-ltd.org

MARCO is a 501 (3)(c) organization and Medishare International is a project of MARCO. [Click here to donate online](#)



made mail checks out to MARCO and place in memo portion the purpose of the donation. Send your donation to MARCO c/o Secretary Jay Garlitz, 6308 Kings Gate Circle, Delray Beach, FL 33484

The Secretary's Keyboard Korner

secretary@marco-ltd.org



MARCO Facebook group use. And bring unexpected benefits. In friending MARCO member Rob Kaufmann VE4GV through Facebook feeds and follow-up, I discovered Rob and I have common relatives in Thunder Bay Ontario. In corresponding with Rob since I have discovered that we have much in common far beyond amateur radio and dentistry.

With the cancellation of Orlando HamCation and HamVention new member Ron KF7ZN suggested that MARCO participate in virtual HamFests until in-person ones return post-pandemic. Great idea Ron, we will look into it!

Merrill WW6AA has expressed on our Zoom sessions how important MARCO and ham radio involvement is in general, and especially during the Covid-19 epidemic. He is 80 years young and credits intellectual exploration through amateur radio as a way to move forward in neural processing, avoiding a backward slope with age.

New member Scott Kline KG7ZWM, a division Chief Fire Marshall for a rural fire district on the slopes of Mt. Hood emailed me to describe the approach the firefighter/EMTs are taking during the pandemic. His wife and both daughters are in health related fields. [Click for his comments.](#)

Member Michael Jaffee KF5LHS wrote with an explanation on adapting family life and workload converted to telemedicine due to the pandemic. [Click here for his comments.](#)

Andy Smith WJ8B, A new member who is active on the MARCO Digital Voice net and an aficionado on those modes, wrote in about his professional and amateur radio background. [Click here for details.](#)

The next edition of *the Aether* in April 2021 will be in print and produced by long-term editor Warren Brown. My next online edition will be in June 2021.

Online editions of the *Aether* can be printed by the reader for use at home but linked information available through clicks within the online document will not be available. Note in using the online edition you have control of the size of the text and images, being able to zoom in for more comfortable and informative reading.

To provide feedback on this issue of the *Aether* contact the editors of both the print and online editions at aether@marco-ltd.org.

73, Jay AA4FL

Statement from the Executive Committee, Dayton Hamvention 2021—<https://hamvention.org/>

Unfortunately, several setbacks in the recovery from the COVID-19 pandemic make necessary the difficult decision to cancel Hamvention 2021. Hundreds of volunteers have been working to do everything necessary to bring this Hamvention to the many amateur radio enthusiasts and vendors who support the Dayton Hamvention.

Stay tuned for information about a QSO party for the 2021 Hamvention weekend. We are looking forward to the 2022 Hamvention!!!

Hamvention 2022 will be held May 20-22. Plan now to be part of a large MARCO contingent. Solve Zoom fatigue with eyeball QSOs and camaraderie!

MARCO Member Communication

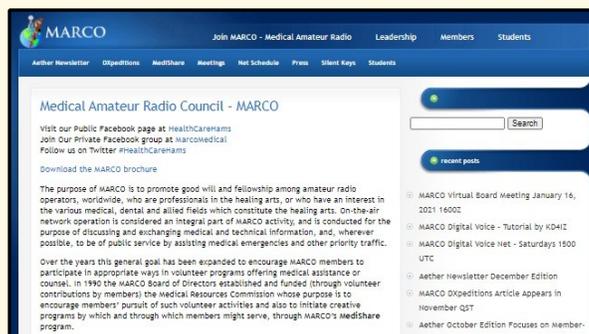
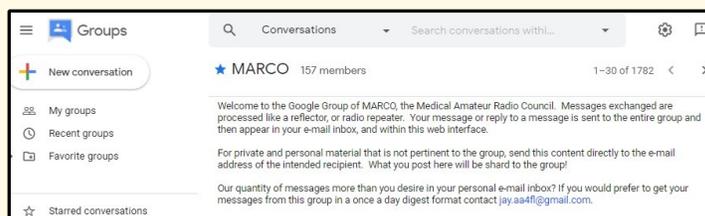
There are many ways that MARCO's BOD and members keep in touch and stay informed:

- Our on-the-air nets as listed within this edition of the *Aether*.
- Through printed and electronic versions of the *Aether* Newsletter
- Radio QSO's
- Our Google Group Listserv
- Through emails
- [Mailchimp](#) email campaigns
- Using distribution email addresses in the format @marco-ltd.org as seen within this edition
- Zoom sessions of the board of directors that are open to members
- Annual live business Meetings with social events
- Hamfest presence
- Committee projects

Do not miss out - make sure to contact the secretary with changes of mailing and email address. To join our google group or update addresses send an email to secretary@marco-ltd.org



Click on the images for links to our online presence



MARCO Membership News

December 2020—January 2021

New Members

KC3POG—Jeffrey Thompson—Orefield, PA
 W2NNU—Jim Wilmerding—Brookhaven, MS
 W1UJ—Jason Corriveau—Webster, MA
 WB0DDX—Mark Wendt—Chanute, KS
 WW9F—Jeffrey Kraft—Glencoe, IL
 K2DED—Steven Browne—Hyde Park, NY
 W7DOC—William Woodward—Gillette, WY
 KD8SKZ—Levi Anderson—Werton, OH
 KG7ZWM—Scott Kline—Welches, OR
 KC3QGE—Fran Hildwine—Nottingham, PA
 N4CGY—John Spitznagel—Chapel Hill, NC

Renewals

KC8DB—Marvin Sparks—Dayton, OH
 K31K—Ian Kellman—Shavertown, PA (10 year renewal)
 W4TX—Elbert White—Cornith, MS (Founding member. #13, since 1965)
 K6JW—Jeff Wolf—Palos Verdes Peninsula, CA
 N6DMV—Paul Lucas—Torrence, CA
 K1UAT—Larry Grayhills—Palm City, FL
 N2LND—John Barbato—Spencer, MA
 WA9BST—Dave Lieb—River Forest, IL (10 year renewal)
 N6HC—Arnold Shatz—Santa Ana, CA
 W6MED—Stephen Pakula—Scottsdale, AZ (2 year renewal)
 W0HJ—Jim Custer—Prescott, AZ/Mankato, MN (10 year renewal)
 WA3IHV—Robert Reichman—Escondido, CA
 WB6JVP—Gordon Levine—Anaheim, CA
 WA2NNZ—Angelo DelBalso—East Amherst, NY
 N9TR—Ben Lind—Glenview, IL
 WA3ZZU—Charles Wernitz—Morgantown, WV
 KD6MDV—Donald Tribble—Sacramento, CA
 JP7FSO/W6FSP—Shinya Takase—Fukushima, Japan
 KE0WW—Mike Stapp—Minneapolis, MN
 N4FD—Larry Smith—Bogart, GA
 KM2L—Bruce Small—Clarence, NY
 K1WDR—Wayne Rosenfield—Parrish, FL
 KN2M—David Rodman—Buffalo, NY
 WB1FFI—Barry Rabin—Syracuse, NY
 KB8KEI—James Petit—Summertown, TN
 K4FTP—Forest Pavel—Kansas City, MO
 KE5SZA—John Connor—Marietta, GA
 N8GMB—Charles Nohava—South Russell, OH
 K0EMC—James Newland—Omaha, NE (2 year renewal)
 KN6HTD—Jose Melendres—Sacramento, CA
 K9AJ—Michael McGirr—Crete, IL
 K5EWS—James Lindley—Fredericksburg, TX
 N8CL—Charles Lind—Medina, NY
 W2RFU—Thomas Lifland—Boca Raton, FL
 WA9BST—David Lieb—River Forest, IL
 W8EYE—Darrell Laughlin—New Hill, NC
 W6NJY—Arthur Kahn—Beverly Hills, CA
 W8CRK—Roger Higley—Cincinnati, OH
 WB5BHB—John McCann—Vancleave, MS
 K8AFP—Gerald Hensley—Richburg, SC
 W3UEC—Stephen Dubin—Springfield, PA
 ON4PG—Pieter Gerkens—Haaltert, Belgium
 W2REF—Robert Ford—Teaneck, NJ
 WI9WI—James Fitzpatrick—Madison, WI
 W8FIN—Todd Finnerty—Worthington, OH
 WA3QWA—Mark Fink—Chesapeake, VA
 AE4BX—Mary Favaro—Surfside Beach, SC
 W8PJQ—Christopher Davis—Chesterfield Township, MI
 KG4CSQ—Ralph Brigham—Huntsville, AL
 WD9GET—Keith Brandt—Alvin, TX
 W8GTR—Melvin Berman—Englewood, OH
 K8KRB—Kenneth Bertka—Coopersburg, PA
 K7NM—Lee Barrett—West Point, UT
 K1DCA—Donald Arthur—Brewster, MA
 WB9USA—CK Alexander—Yorktown, IN
 W4UM—Michael Raskin—Sewall's Point, FL

Renewals continued

KE5BQK—Linda Krasowski—El Paso, TX
 KD5QHV—Bernie Krasowski—El Paso, TX
 N5EQ—Jeff Rosio—Frederick, MD
 KP4MD—Carol Milazzo—Citrus Heights, CA
 WA8FOZ—William Klykylo—Cincinnati, OH (10 year renewal)
 N3MBC—Harlan Abbott, Jr.—Reedsville, PA
 N4FD—Larry Smith—Athens, GA
 W9SWW—Bill Davidson, Chicago, IL
 VE6KF—Frank Haley—Edmonton, Alberta, Canada
 N4JEL—Michael Dodson—Tallahassee, FL (2 year renewal)
 N5RTF—Chip Keister—New Orleans, LA (5 year renewal)
 AK4LQ—Nancy Whittle—Mulga, AL
 KB5FLA—Richard Daily, Russellville, AR
 AE4TM—Edwin Jones—Knoxville, TN
 KC2PRZ—Bryan Quackenbush—Beacon, NY
 A11W—Gonzalo Laje—Potamic, MD
 AW6WA—Michael Zaroni—Kailua, HI
 W3RJA—Guy Knickerbocker—Narvon, PA
 KD6ECP—Robert Smith—Clemont, FL
 N4TSV—Mario deAranzeta—Trenton, FL
 N2HIW—Diane Rodman—Buffalo, NY
 N3IRY—Roy Kring—Bedford, MA
 WM4R—William Rowlett—Hopkinsville, KY
 N2DNK—Edgar Bangil—Silver Creek, NY
 WD8ING—Robert Thompason—Hazard, KY
 VE6KF—Frank Haley—Edmonton, Alberta
 K8WEH—William Hablitzel—Stout, OH

Silent Keys

N8YIY—Frank Judge—Ann Arbor, MI
 (Father of member Michaline KC9ARP and Father-in-law of member Harry WB9EDP)—KC9ARS—Melvin Sieralowski

How are Dues Structured and Processed?

At our January 16, 2021 BOD meeting action approved small changes requested by the secretary and treasurer in order to make tracking and processing payment of membership dues more manageable for our volunteer staffed organization.

We implemented a unified dues structure, as reflected in the verbiage on following page within the membership application. There are three options for dues for all members. One year memberships are \$25, two years \$45, and 5 years \$100, your preference of term. As one can envision from the long list of renewals managing invoicing and collecting dues with most members having one-year renewals even with online tools can be daunting for volunteers, thus discounts for longer terms are offered.

Renewal of dues are based on January 1st. **New members who apply during the year** will have their first year dues prorated based on a one year membership. Those applying after July 1st receive the two year membership prorated for 1 year and the appropriate number of months.

There are still two categories of membership that impart basically the same level of member benefits. In brief regular members are those members who have backgrounds in the healing arts while associate members are those who do not but have an interest in the healing arts. [See our by-laws for full details.](#) When membership applications are submitted the membership committee assigns the membership type based on the information provided in the application. Email membership@marco-ltd.org with any questions or comments.

Insert regarding 2021 Dues

Our invoicing system tracks online payments. Invoices are automatically marked as paid when a PayPal payment is made using the link provided in the invoice that you received by email

Many MARCO members have made their dues payments by check. Once deposited the invoices sent by email are manually updated to reflect their paid status.

If you receive an invoice reminder stating that your dues are outstanding and due Jan. 31, 2021, and you already made a payment, please email me at jay.aa4fl@gmail.com so I can rectify the issue.

For those who still need to pay your dues you can use the link in the original email to pay online or write a check to MARCO, sending it to

Jay Garlitz. 6308 Kings Gate Circle, Delray Beach, FL 33484.

73, *Jay* AA4FL, MARCO Secretary

Member of Excellence

Paul Lukas—N6DMV—Torrence, CA
 MARCO Regional Director for Call District 6

Paul is a dedicated MARCO leader and an exceptional individual. Generous and considerate are his persona, making regular and significant donations to project MediShare. He is a prolific writer who has documented in print his childhood experience of growing up in Hungary under Nazi rule.

His background is in both Electrical and biomedical engineering, with 10 years of x-ray radiology experience in hospitals.

For over 35 years, Paul has designed, help build, and contribute to the launching of civilian and military satellites. He has even graced our HamVention booth with a tin can decorative satellite. This work of art entices guests to visit with us, bringing welcome traffic to for us to meet and greet.

A recent project was to help with the 5-inch cube satellite SMOG-P, that was built by the students of the Technical and Economics University of Budapest. The satellite mission was to measure and report back the escaping and therefore useless RF energy of the Earth. The cube worked perfectly over its life, a great accomplishment for a student project, must be the great mentor!

MEDICAL AMATEUR RADIO COUNCIL, LTD.
[New Membership Application & Renewals](#)

Best method process application online
<https://marco-ltd.org/join-marco-amateur-radio/>

Once you fill out the online form it will be reviewed by the membership committee. Upon approval you will be invoiced by email with a link to pay online through PayPal. If you desire to pay by check mail the application address below and we will invoice you.

Check your preference:

- One year membership \$25 (USD); prorated to year end
- Two year membership \$45 (USD); prorated, (the default billing for renewal)
- 5 year membership \$100 (USD); prorated

Name: _____

Address: _____

Health Related Career (if appropriate)

Call Sign: _____ Type License: _____

Phone: _____

email: _____

Birthday _____ (Year optional.) Member ARRL: Y / N

Written applications for membership should be sent to

Membership Committee
 c/o Secretary Jay Garlitz
 6308 Kings Gate Circle
 Delray Beach, FL 33484, USA

Medical Amateur
 Radio Council



**The Medical Amateur
 Radio Council Ltd.**

**Founding and
 Renaissance**

Elbert White III W4TX—
 Renewed this year with a note that he is a founding member who still in good standing! He joined MARCO's birth in 1965, prior to its incorporation, member #13.

Fran Hildwine KC3QGE—
 One of most recent new members arrived with a ham radio pedigree of

being recognized in QST. To view the article about Fran see [page 13 of the February 2021 issue](#). Congratulations Fran! With many new members recently joining MARCO to impart fresh energy and ideas a MARCO renaissance is in the making.

This is the 127th edition of The Aether (2000-2021) since Warren KD4GUA became editor, and the third online only edition by Jay AA4FL