

KEY KLIX

FEBRUARY 2020

MERIDEN AMATEUR RADIO CLUB

1947 -- 2020



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PRES W1YSM ED SNYDER VP KB1JL ERIC OLSSON SECT K1STM ANNE WEST
TRES K1WJL DAVE SWEDOCK S.A.M. K1RCT ROB CICHON



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ALL MEETINGS ARE AT THE EOC HOPE HILL FIREHOUSE
143 HOPE HILL ROAD, WALLINGFORD



FRONT PAGE NEWS

HOLD THE PRESS

N1GNV HAS GONE TO THE DARK SIDE



**IT IS RUMORED THAT JOHN HAS BEEN INFECTED WITH THE CODE-GONNA VIRUS
AND IS NOW TRAVELING WITH THE BEEP-BEEP GANG.**

MAY THE MORSE BE WITH HIM



The President's Net Control Corner

Ed WIYSM, President MARC



EVERYTHING OLD IS NEW AGAIN - MARC and the RETURN OF MORSE CODE

I had written, "emphasize Morse Code" on my list of areas to focus on as part of my MARC 2020 Strategic Plan. Little did I realize how quickly this proposal would resonate among the membership. For the past several years I had been told "real Hams know the code". I guess that made me a faux Ham. The Beep-Beep Boys and the Phonies have had their yearly competition during field day and during other contest Activations with the usual low level of jousting between the two groups – and in the past, it usually was not an intense rivalry - nothing to write home about.

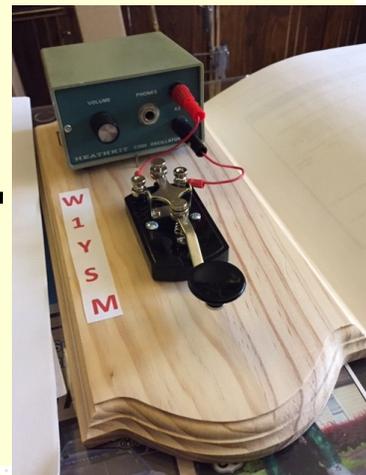
Sometime, however, over the past year and certainly now, the Morse Code renaissance began to pick up steam. James, AB1DQ enrolled in the CW Academy; Mike K1LHO continued to support CW awareness, bringing tiny code keys to the Saturday am sessions; Dave NZ1J enrolled MARC in the Straight Key Century Club; Bob WB1GYZ, John K1LYP, John K1VDF, Steve KC1SA, Al NA1PI, John W1DQ, Bill W1KKF, Steve W1LV, and many others continued the Morse drum beat on a monthly if not weekly basis. Just a few days ago, John N1GNV got religion, and made his first CW QSO. When announced on the internet, others flocked to congratulate him including Eric KB1EHE and Elsie KB1IFZ, AB1DQ, NZ1J and multiple others. Rumor even has it that Samuel F.B. himself, unable to contain his ghostly enthusiasm while eavesdropping on John's CW QSO, contacted him via a nearby Ouija Board. The ARRL, also, has increased the number of CW-related offerings; indeed, ARRL code practice frequencies are hopping, and CW contests and awards, are being accessed in increasing numbers.

Enthusiasm for CW has brought many MARC members closer together likely because this activity has gone directly to the primary reason our members joined MARC in the first place – to find like-minded amateur radio operators, enjoy their friendship and share similar interests. Hams helping Hams is what it's all about.

It frankly has reached a point that even I, your humble SSB President, has felt the need to jump on the CW bandwagon; I have started to study the code in earnest. I bought a Heathkit HD-1416 on eBay and built a cool (for me) CPO "rig" (see photo). I also started studying the code using the Gordon West 0-5 wpm Morse Code CD set. As of now I know the letters and numerals and 3 punctuation marks. As predicted, I also have received as many different suggestions for how to "best" learn CW as there are people I have talked to. Onward I now plod through the dihs and dahs, with my trusty Gordon WB6NOA CD, by my side and in my ear.

This digital renaissance is just one of a series of activities that bind us together as Hams; there are many others – CERT, Public Service, radio repair, contesting, fox hunting, etc., etc. I am excited about the potential these activities have for bringing MARC members even closer together and growing our club as we encourage other existing hams and new hams to join us. MARC is on the move in so many ways. In closing this column, perhaps I should just say:

— — ••• ••• — — ,
• — •• ,
• — — • — — — — — — — — • — — — — — ••• — — —
(, = — — •• — —)





ACTIVITY NIGHTS & EVENTS,

ED W1YSM (ACTING ACTIVITIES MANAGER)

2020

Feb. 27	CW & History of Morse Code.	Eric KB1JL et al
Mar. 26	A Wilderness Preparation Guide	Ed N1YLN
Apr. 23	Summits OTA	Dave NZ1J
May 28	Topic TBA	Scott N3NFP
June 20	Wallingford 350th Celebration Parade	
June.25	TBA	
June 27/28	Field Day	
July. 23	Lark in the Park (or OEM backyard)?	
Aug 27	Jeopardy for Hams Tentative	John K1LYP
Sept 24	TBA	
Oct 11	Nutmeg Hamfest	
Oct 22	TBA	
Nov 12	Annual Meeting / Elections	
Nov 26	Cancelled / Thanksgiving	
Dec 3	MARC Year in Review / Year Ahead Pizza & Soda	W1YSM
Dec 10	Christmas Party Tentative	
Dec 24	Cancelled / Christmas	

CLUB NETS

<u>6 MTR NET</u>	MONDAYS 8PM	50.175MHZ	N1ZN JIM
<u>2 METER NET</u>	TUESDAYS 7:30PM	147.36 /RPT /NO PL	K1TDO TODD
<u>10 METER NET</u>	TUESDAYS 8PM	28.375MHZ	K1VDF JOHN
(10/10 CASTLE CRAIG CHAPTER CONCURRENTLY WITH CLUB NET—N1API AL)			
<u>2 METER TECH NET</u>	WEDNESDAYS 7:30PM	147.360+, no PL	
WEEKLY NET MODERATED BY VARIOUS AMATEURS WITH DIFFERENT TECHNICAL TOPICS AND Q&A SESSION			



Secretary Report & Minutes of the Meriden Amateur Radio Club JANUARY 9, 2020 BUSINESS MEETING

We welcome Anne W1STM as our new secretary and her first report.

President, W1YSM called the meeting to order at 19:29. All present introduced themselves; 30 members and guests.

Announcements: W1YSM commented on the year 2019 in review and looked forward to the year 2020. He noted that some members think there is too much happening in the club. However, Marc is an active club with many activities. Members should not feel overwhelmed and choose activities of interest. Expanding digital modes of operation is an example of activities not widely used. Ed also noted that if a member needs to make a small purchase, he can approve it. For example, the coffee pot needed to be replaced. Things that went well in 2019: Field Day, Fishbein road race, CQ Santa, Year in review, Saturday morning get togethers, ham fest, Yale/Harvard football game and many other activities putting the club in the public eye. Things to do in 2020 include: Institute of Electronics and Electrical Engineering from Yale contacting the International Space Station. Plans will need to be made for the event which could involve one or more schools.

Things on which to improve: Plan a fox hunt; on the air activities to showcase the club.

W1YSM hoped to attend the New England cabinet meeting held on January 12. He also mentioned that a MARC welcoming video is in the planning stages.

Secretary's report: A motion was made, seconded and passed to accept the November 2019 minutes as published; 29 yay, 1 nay. Duties will be divided between K1STM who will take minutes, N1OKR who will handle new member applications, KB1JL and K1WJL helping as needed. Three new members were voted into the club unanimously with passed motions. Welcome Kevin Shields W1KPS, William Witecki N1QYP, and Stephen Stimpson W1ST. No correspondence to report.

Treasurer's report: K1WJL gave an overview of account balances and expenses. A routine audit will be conducted by N1ZN and K1LHO following previous practices. The ham fest Board of Directors will meet soon to decide how funds from the fest will come back to the club.

Station Manager report: K1RCT highlighted contest activity. A problem with the tuning in the FT950 occurred. The company will be contacted for a fix. Digital modes have been set up in radios and in the N1MM logging program. A chart will be attached to each radio with settings and proper operation for contesters to follow. Available antennas were noted. Permission to use the tripod on the roof has been granted. Antennas for winter field day are being set up. Additional operating times were briefly discussed.

The leadership and members email lists have been amended and will continue to be amended as needed. Paid members will be added to the members list and the newly elected officers will be added to the leadership list.

Committees: Entertainment: W1YSM gave the schedule of activities as follows:

DATE, ACTIVITY, PRESENTER

01/23, Tower installation and safety, K1LYP... 02/27, CW then and now, KB1JL and Friends 03/26, Field Day in the field, N1YLN
04/23, Open, 05/28, Digital modes, Scott 06/25, Summits on the Air, NC1J 07/23, Lark in the Park,
08/27, Jeopardy for Hams?, K1LYP Sep-Oct, open, 12/03, Year in Review, 12/10, Christmas Party,

Saturday mornings: K1LYP stated that 22-26 people come to the OEM regularly. One Saturday, there were 28 people in attendance. Rigs can be used, radios can be fixed, technical and other discussions sprout up and coffee and are enjoyed.

Boy Scout radio merit badge classes will be held at the OEM. MARC has received permission to hold the classes.

Website update: The site modifications are not simple as once thought. The site might need to be manually recreated. The Google calendar contains a schedule of events. An additional meeting could be scheduled for the purpose of discussing website planning. Details to follow.

Contesting: N1YLN noted participation in the 10/10 contest and a brief time in the RTTY contest. Winter Field Day will be held on January 25-26. Ed had a sign up sheet for those interested in operating. Ed asked if there is interest in the ARRL International CW DX contest to be held Feb-16-17. Feb 29 and March 1 is the North American RTTY QSO Party. A fox hunt could be scheduled in March weather permitting.

Wallingford 350th celebration: K1LYP stated the most recent meeting was held in November, 2019. He is waiting for the date of the next meeting. Approximately 24 hams will be needed for parking lots and the parade route on Saturday, June 20, 2020. Special events station W1W will be active during the celebration.

Nets: All the nets are doing well. The Nutmeg VHF traffic nets does not have a large attendance and would like more people to stop in. The new tech net is becoming popular. A discussion was held as to how often the net should meet. A motion was made, seconded and passed to hold the tech net weekly; 29 yay, 1 nay. Net controls are needed. Volunteer anyone? Topics for discussion appreciated and can be posted on the reflector.

Castle Craig: N1API noted the 10/10 contest will be held February 1-2 with the kickoff net January 31.

Scholarship: Applications will be distributed to Wallingford schools. Wallingford students are eligible to apply as are children and grandchildren of club members.

Community Events: W1YSM mentioned that fire departments give free trinkets during an event. Maybe the club can do the same. Suggestions such as pens and other small items were made. A refrigerator magnet with club info would last and be noticed longer than a throw away item. Prices will be checked for further discussion. The club's 2 logos and other content will be considered. A motion was made, seconded and passed to check for pricing and availability on items with specific content; unanimous.

Membership: Mailing is not the way to go. People do not respond and money is wasted. Word of mouth such as nets, activity on repeaters spark interest with hams and non hams. A nice looking sign outside during club events at the EOM inviting people interested in ham radio to stop in would be a good way to attract new members and non hams interested in becoming licensed.

Interference and Technical: Nothing to report. However, there was a short discussion concerning radio installation in new cars

Sect report continued

The next VE session will be held on March 14. Current volunteer examiners and those wishing to become a volunteer examiner please contact n1zn@arrl.net in order to determine how many examiners are available.

Community Outreach: The Wallingford Public Library has a rack with flyers from many organizations. The MARC flyer should be added to the rack. W1YSM will look into placing club flyers throughout the town.

KB1JL noted that he received a letter from Len Guercia containing town policies for the use of the OEM. Len stated that he is happy with the club and how we take care of the building.

Old Business: None

New Business:

W1YSM emailed the National Weather Service asking if we could host a sky warn training class. No reply.

The MARC video, which is on YouTube has over 14000 hits. The video will be updated and will contain a history of the club and other info. It will be no longer than five minutes.

N1YLN asked members who did not fill out the questionnaire pertaining to contest interests to please do so.

A motion was made, seconded and passed to adjourn at 21:06. Unanimous.

Respectfully submitted,
Anne West, K1STM, Secretary



Fox Hunt Practice on Saturdays

A growing number of club members are honing their Fox Hunting skills on Saturday mornings. We've got a wide variety of Fox Hunting equipment in the works and two club members are rumored to have equipment that they're keeping under wraps for now. Neither of those secretive Fox Hunters made it into our group photo. Though the weather has been only slightly cooperative, we've been hunting over a 0.1 mile radius to evaluate the new equipment and build some skills. For this close-in hunting, we have been hiding a 1mW class transmitter. We're ready to expand to about a 1 mile radius for some get-in-the-car-and-drive-around style practice. Join us if you can on a Saturday morning. We're working on a lot of ideas for equipment and techniques. And, visit the new Fox Hunting page on the club website. Weather permitting, we'll have the first official Fox Hunt on a Saturday in mid to late March. This won't be a very sly Fox. He'll be somewhere in Wallingford and not trying to be difficult to find. A three element Yagi and an HT with a good S meter should be enough to join in the hunt. But, joining a team and getting some practice can make it easier and more fun.

Dave NZ1J



From Ted KC1DOY

Saturday, 1 Feb 2020, was a good day to check out the progress the guys had made on their foxhunt antennas. John, KB1MFU, had his 3 element Yagi with Gamma match. Check out the arrowshaft elements! Jeff, N1AKN, displayed his loop antenna and attenuator system. All of the guys were kind enough to pose for a picture with their handiwork. Since the foxhunt will be in the Spring, there will be more yet to come. I will be starting work on mine this coming week.

Capacitors in Amateur Radio Circuits and How to Select the Correct Type for Your Application

by AB1DQ, James M. Surprenant

INTRODUCTION

A capacitor is a device that stores electrical energy in an electric field. It is a passive electronic component with two terminals. The effect of a capacitor is known as capacitance. The unit of measure of capacitance is the Farad. Most capacitors contain at least two electrical conductors often in the form of metallic plates or surfaces separated by a dielectric medium. A conductor may be a foil, thin film, sintered bead of metal, or an electrolyte. The non-conducting dielectric acts to increase the capacitor's charge capacity. Materials commonly used as dielectrics include glass, ceramic, plastic film, paper, mica, air, and oxide layers.

When an electric potential (voltage) is applied across the terminals of a capacitor, for example when a capacitor is connected across a battery, an electric field develops across the dielectric, causing a net positive charge to collect on one plate and net negative charge to collect on the other plate. No current flows through the dielectric. However, there is a flow of charge through the source circuit. If the condition is maintained sufficiently long, the current through the source circuit ceases.

RF USES FOR CAPACITORS

There are many different uses for capacitors in electronic circuits. In the realm of amateur radio, some of the most essential applications include tuned circuits, signal coupling, decoupling or bypass, power conditioning, and energy storage.

In reverse order, here is a brief explanation of each of these uses of a capacitor.

Energy storage

A capacitor can store electric energy when disconnected from its charging circuit, so it can be used like a temporary battery. Capacitors are commonly used in electronic devices to maintain power supply while batteries are being changed, preventing loss of information in volatile memory.)

Power conditioning

Reservoir capacitors are used in power supplies where they smooth the output of a full or half wave rectifier.

Decoupling (or bypass)

A decoupling capacitor is a capacitor used to protect one part of a circuit from the effect of another, for instance to suppress noise or transients. Noise caused by other circuit elements is shunted through the capacitor, reducing the effect they have on the rest of the circuit. It is most commonly used between the power supply and ground.

Signal coupling

Because capacitors pass AC but block DC signals, they are frequently used to separate the AC and DC components of a signal. This method is known as AC coupling or "capacitive coupling". Here, a large value of capacitance, whose value need not be accurately controlled, but whose reactance is small at the signal frequency, is used.

Tuned circuits

Capacitors and inductors are applied together in tuned circuits to select information frequency bands. For example, radio receivers rely on variable capacitors to tune the station frequency. Speakers use passive analog crossovers, and analog equalizers use capacitors to select different audio bands.

The resonant frequency f of a tuned circuit is a function of the inductance (L) and capacitance (C) in series, and is given by:

$$f = \frac{1}{2\pi\sqrt{LC}}$$

CHOOSING THE RIGHT CAPACITOR

The physical form and construction of practical capacitors vary widely, and many different types of capacitor are in common use. We are going to look at six different types of capacitors, explore their properties and look at which is best for specific RF circuit applications.

NP0 (Negative-Positive-Zero) capacitors are ultra-stable capacitors and are ideal for use in oscillators and for RF coupling. They are not affected by high temperatures nor agitation.

These are single layer ceramic capacitors made from a mixture of tannates and generally do not age with time.

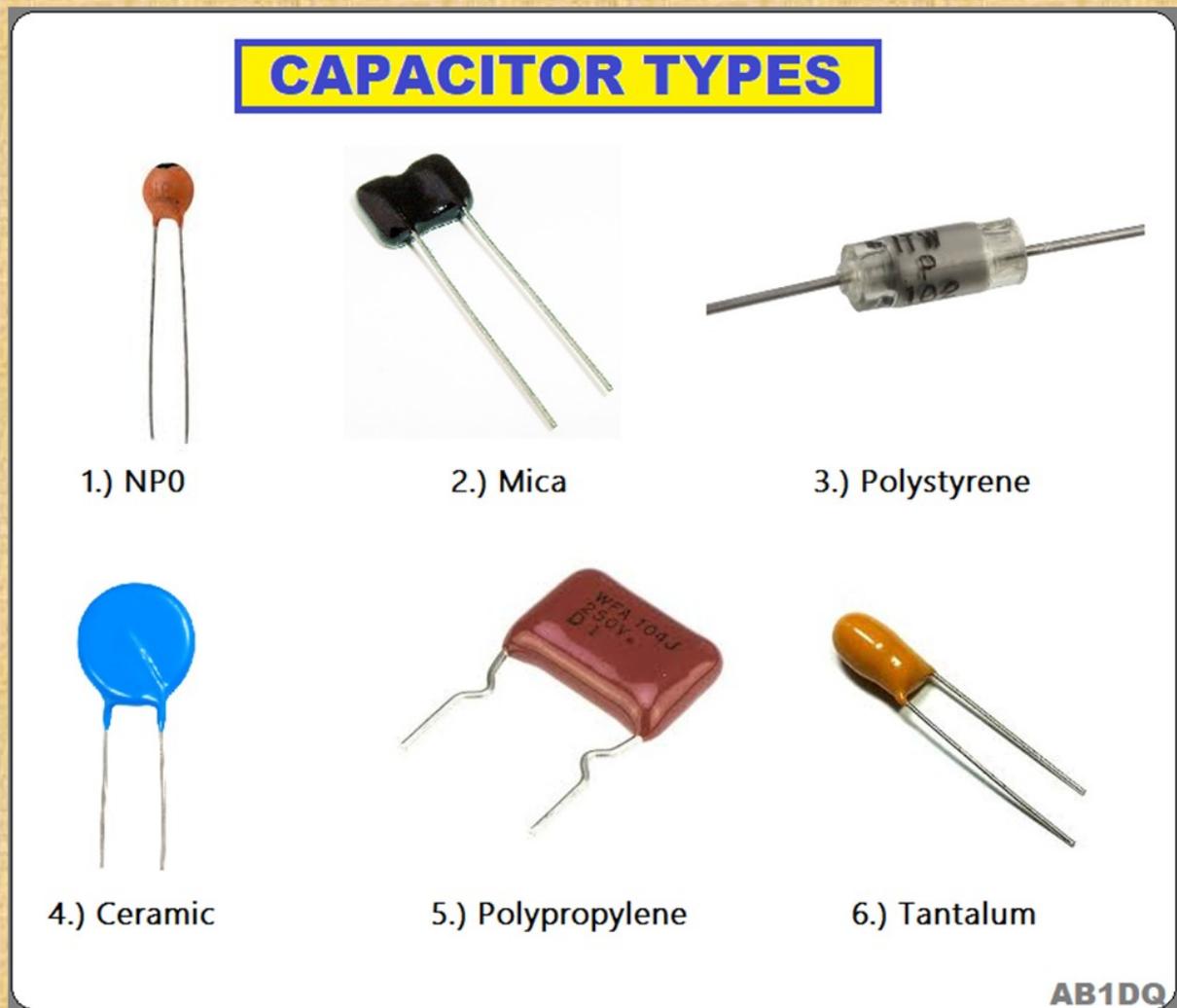
Mica capacitors are made by sandwiching mica sheets coated with metal on both sides, encased in epoxy. Mica capacitors also highly stable over a broad range of temperatures and are not likely to fail. They may be used in similar circuits as NP0s – including oscillators and RF coupling, particularly when the circuit calls for relatively small capacitance value.

Polystyrene capacitors are very stable but are also very temperature sensitive – you will rarely find them in vacuum tube circuits due to the high heat present. They are predominantly used in solid state applications. Their dielectric is made of polystyrene and come only in low values, usually 10pF to 47nF. They are predominantly used in coupling and storage applications, and precision polystyrene capacitors are suitable for tuning and filter circuits.

Ceramic capacitors are constructed of two or more alternating layers of ceramic dielectric between metal layers acting as the electrodes. Ceramic caps are great for RF bypass, but not good for oscillators or tuned circuits. They may be used for RF coupling, if there is no interlock between stages. They are not temperature stable and if jarred, they may release voltage into the circuit – this is called the piezo-electric effect – for this reason you won't see ceramic caps in audio circuits.

Polypropylene capacitors also known as PP film capacitors have a polymer (plastic) film, sometimes combined with paper dielectric. They are really great for audio circuits, but not good for RF stage coupling or oscillator circuits. They are good for high vibration environment as they exhibit no piezo electric effect like the ceramic capacitors. The orange drop variety is popular among vintage radio restorers when looking to replace leaky original paper and wax caps. The paper in these old caps become acidic over time causing the caps to leak voltage and no longer block DC.

Tantalum capacitors are a subtype of electrolytic capacitors and are thus polarized. These are made of tantalum metal which acts as an anode, covered by a layer of oxide which acts as the dielectric, surrounded by a conductive cathode. These capacitors are good for bypass or timing circuits but not for audio. They are very temperature stable. For more information – see Mr. Carlson's Lab "Which Capacitor Do I Use? Tech Tips Tuesday on YouTube: <https://www.youtube.com/watch?v=67M7fsbLUIU>





The Shack

#10 IN THE SERIES

STATION ACTIVITIES MANAGER ROB CICHON K1RCT

WFD; Winter Field Day has just concluded last Sunday. Not too cold and a fun time. The Bands were a-hoppin! 20M was wide open Saturday at 14:00 to the western US. We made a total of 138 QSO's across three bands.

The CSRR (The Shack) has undergone a few upgrades. We are able to work AFSK on the FT-950, All Digimodes on the VHF Station (FT-991a although the settings need a final tweak AI). The HF FT-991a is set up for SSTV mode.

ALL HF stations; the FT-950 North Station & the FT-991a South Station require the use of the External Tuner. No longer can we use the internal tuners on each of these stations.

Again, each station can utilize the LP directional antenna on 10M/15M/20M.

This is for equipment damage control only.

The CQ WW WPX RTTY Contest is coming up on 0000Z, Feb 8 to 2359Z, Feb 9 2020. The WPX is a busy contest. If you like contesting or like DX Work this is an excellent contest to collect many different callsigns. The FT950 Station will work AFSK (RTTY) integrated with the Rig and N1MM for logging and rig control.

You can use the station with your own callsign or W1NRG. If using your own callsign, be sure to log your contacts manually.

ESM mode works especially well in digital modes.

Hints & Kinks

FT-991a (South Station) is set up for SSTV. If another mode is needed, use the Menu Programmer to install the Menu Profile needed, then fine-tune.

A series of orientation videos is being worked on by Steve Allen and myself. These will be focusing on familiarizing operators with our stations and how to use them.

When you are operating The Shack or anywhere with Club Gear, be sure to log-on to N1MM with your callsign. While the cursor is in the Entry Window, press <CTRL> (control key) & <O> (O key). A window pops-up. Input your callsign then press <ENTER>. This way your callsign will be preserved in the Cabrillo and ADIS files and will be logged when the log file is submitted. When you do not log-on, there's a good chance your effort will not be recorded in the score. Something no-one wants.

Final go-around:

Have you tuned-in to the TechNet yet? Wednesdays at 21:30, 147.360+, no PL.

73! de K1RCT - S.A.M.

CONGRATULATIONS TO JOHN K1LYP ON HIS COMPANIES 50TH ANNIVERSARY



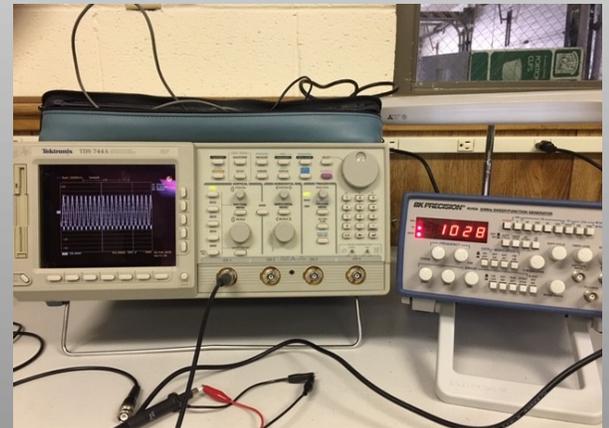
Yusza, Jr., and his children, John W. Yusza, III and Deborah J. Sokol.

MONITOR CONTROLS INC. CELEBRATES 50 YEARS

Monitor Controls, Inc., New England's provider of security, fire detection, video surveillance, access control, and central station monitoring, has announced the celebration of their 50th anniversary in 2020. Founded in Wallingford in 1970 by John W. Yusza, Jr., and his late wife, Patricia, the company remains a privately owned company run by Yusza, Jr., and his children, John W. Yusza, III and Deborah J. Sokol.

Initially an intrusion company meeting the demands for residential and commercial security, a major portion of their business today includes fire, video surveillance, and access control. Monitor Controls, Inc. services all of southern New England and eastern New York operating out of their facility on Center Street in Wallingford.

The company has some exciting plans to celebrate throughout the year. They would sincerely like to thank their clientele, team members, service providers, and suppliers for the faith they have placed in the principles and beliefs of Monitor Controls, Inc.



JEFF N1AKN NEW TOYS



COURTESY OF N1API

WINTER FIELD DAY

WFDA2RTTY Summary Sheet

Start Date : 2020-01-25

CallSign Used : W1NRG

Operator(s) : K1LYP, K1VDF, K1RCT, KC1SA,
KC1ISI, KB1JL, NI1LN, KB1TMC,
N1KGY, N1GNV, W1KKF

Operator Category : MULTI-OP

Assisted Category : ASSISTED

Band : ALL

Power : LOW

Mode : MIXED

Default Exchange : ClassCat St/Sec/DX

Gridsquare : FN31NK

Name : Meriden Amateur Radio Club

Address : PO Box 583

City/State/Zip : Meriden CT 06450

Country : USA

ARRL Section : CT

Club/Team : Meriden ARC

Software : N1MM Logger+ 1.0.8101.0

Band Mode QSOs Pts MLT O Pt/Q



On Tuesday Feb 4, 2020, a Stop the Bleed training course was held at the OEM building. Club members N1OKR, N1YLN, W1YSM and KB1JL attended and received certification. The class focused on treating serious trauma wounds with tourniquets and wound packing material. The class was taught by Bob Nappi from Yale New Haven hospital. Bob was assisted by Bob Huebner, a representative from Z-Medica, a Wallingford based company that produces Quik-Clot, a hemostatic clotting product used by military, law enforcement and EMS around the world. Z-Medica has donated a Hemorrhage Control Kit to the OEM building, similar to ones placed in the 14 public schools in town. The OEM and MRC offer various periodic training courses such as First Aid and CPR/AED at the OEM with several upcoming. Consult the club calendar for details.



DOUGLAS WA1SFH CONDUCTED BOY SCOUT TRAINING SESSIONS IN AMATEUR FOR THEIR MERIT BADGES, THEY WERE FROM SCOUT TROOP #47 IN WALLINGFORD



EDITORS NOTE: THIS ARTICLE WAS INADVERTANTLY OMITTED FROM LAST MONTHS ISSUES, HOPEFULLY SOMEONE MAY EXHIBIT SOME INTEREST TO VISIT ARUBA WITH ERIC & ELSIE..

2021 Aruba Contest / DXpedition -- IARU HF World Championship . Want to go? Not a typo: 2021. Eric and Elsie are already starting to plan a sequel to last year's fun and successful IARU HF World Championship contest trek to Aruba. The team operated the worldwide-prized contest-multiplier call sign "P40HQ" from one of the leading contest stations on the planet: P49V Check out: www.p49v.com Last year's team: Eric KB1EHE, Elsie KB1IFZ, Ralph Ring KC1GMD, Linda Ring (Ralph's XYL), Rod Lane (N1FNE), and Rhonda Lane (KA1WCO). The photo shows the team's official contest caps. Eric and Elsie are heading back to Aruba in a couple of weeks to start making early arrangements. This is one of the most sough-after contest QTHs, so it takes a lot of planning! The current thought is a long weekend in Aruba -- for sun, fun, and contesting -- surrounding the second full weekend in July 2021. General info: <http://www.arrl.org/iaru-hf-world-championship> If you have even a hint of interest (absolutely no commitment!), jot Eric a note at ericknight@gmail.com

INFORMATION PAGE

MERIDEN AMATEUR RADIO CLUB

PRESIDENT.....W1YSM ED SNYDER
 VICE PRES.....KB1JL ERIC OLSSON
 SECT.....K1STM ANNE WEST
 TRES.....K1WJL DAVE SWEDOCK
 STATION A.M...K1RCT ROB CICHON

MEETINGS: NORMALLY
 7:30PM ON THE 2ND & 4TH THURSDAYS OF THE MONTH,
 UNLESS OTHERWISE POSTED,
 AT THE HOPE HILL ROAD FIREHOUSE / EOC
 143 HOPE HILL ROAD, WALLINGFORD

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CLUB NETS

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2 METER NET TUESDAYS 7:30PM
 147.36 /RPT K1TDO TODD

10 METER NET TUESDAYS 8PM
 28.375MHZ K1VDF JOHN

10/10 CASTLE CRAIG CHAPTER
 CONCURRENTLY WITH CLUB NET
 28.375MHZ TUESDAYS 8PM N1API AL

CLUB DUES STRUCTURE (JAN-DEC)
 UP TO 64 YRS OF AGE--\$20/YR
 SENIOR DISCOUNT 65 & UP--\$15
 ANY LICENSED HAM, 18 &
 UNDER WILL BE GIVEN FREE
 DUES

WEBSITE: (USE LOWERCASE)
www.w1nrg.com

FORUM/BBS:
www.w1nrg.com/forum/
 or go to website and follow links

CASTLE CRAIG 10-10 WEBSITE:
 go to www.w1nrg.com
 and follow the links

CLUB REPEATER W1KKF/R
 147.36MHZ +600 OFFSET
 NO PL TONE (OPEN REPEATER)



AB1DQ	James Surprenant	22	KC1HFO	John Stoidis	20	W1KKF	Bill Wawrzeniak	L
AB1HB	Charlie Dudac	20	KC1IHK	Scott Mowerson	20	W1KPS	Kevin Shields	20
AF1HS	Art Fregeau	19	KC1IIL	Matt Mowerson	20Y	W1LV	Steve Morley	20
K1IIG	Steve Tripp	19	KC1ISI	Kristin Olsson	20	W1NHS	Fred Ring	19
K1JCF	Joe Farrell	20	KC1KQH	John Kasinskas	19	W1NNZ	William Kosche III	19
K1LHO	Mike Ash	20	KC1NS	Nancy Tipping	19	W1POP	Fred Liedke	21
K1LYP	John Yusza	20	KC1SA	Stephen Allen	21	W1ST	Stephen Stimpson	20
K1MMK	Mike MacKennedy	20	KE1AU	Robert Kaczor	20	W1UFO	Mike Cei	20
K1MVM	Mike Macri	19	KE1AV	Dave Sanford	20	W1XK	Stan Kugler	19
K1PU	Mark Mokoski	19	KE1AY	Donald Mitchell	20	W1YSM	Ed Snyder	20
K1RCT	Rob Cichon	20	KR1U	Bob Eslinger	20	WA1CT	Paul Stasieluk	20
K1STM	Anne West	20	N1API	Al Kaiser	20	WA1FFT	Ray Irwin	20
K1TDO	Todd Olsen	20	N1AKN	Jeff Dwyer	20	WA1JKR	John Rogus	20
K1TGX	Jerry Molaver	22	N1BF	Patrick Dionne	21	WA1SFH	Douglas Sharafanowich	19
K1THP	Dave Karpiej	19	N1BRL	Bart Toftness	20	WA1TRY	Rich Aubin	L
K1VDF	John Blevins	20	N1GNV	John Bartscherer	20	WA1ZVY	Jim Martin	20
K1WJL	Dave Swedock	20	N1GY	Geoff Haines	21	WB1GGP	Jerry Shepard	19
K1XJ	Kevin Buchanan	19	N1HCA	Susan South	19	WB1GYZ	Bob Biancur	20
KB1EHE	Eric Knight	20	N1KGY	Chuck Ayers	20	WB8IMY	Steve Ford	20
KB1FYL	Bob Carruthers	20	N1LGH	Barbara Stone	19	WV2LKM	Steve Waldmann	20
KB1HCC	Jonathan Winslow	20	N1MOB	Dan David	19		Ron Rogers	20
KB1IFZ	Elsie Mathews	20	N1NAN	Helen Spokes	20			
KB1JL	Eric Olsson	20	N1OKF	Bob Parisi	19			
KB1MFU	John Ramadei	19	N1OKR	Frank Ciccone	20			
KB1ORB	Mark Noble	19	N1POP	Greg Ploski	19			
KB1SSN	Alex Dills	20	N1YLN	Edward O'Lena	20			
KB1TJD	Gainne Jenkins	20	N1ZN	James Savage	20			
KB1TMC	Clare O'Lena	20	NZ1J	Dave Tipping	22			
KB1YFJ	Glen Couture	20	W1AJK	Andrew Kazimer	20			
KC1DOY	Ted Renzoni	20	W1DJB	Dylan Barrett	19			
KC1FJJ	Richard Nagy Jr.	19	W1DQ	John Elengo	20			
KC1GMD	Ralph Ring	20						

THERE MAY BE A MONTH OR TWO
 TIME LAG FOR DUES TO BE SHOWN
 AS PAID. INQUIRE WITH THE TRES.
 K1WJL TO VERIFY...