CAARA NEWS



Cape Ann Amateur Radio Association
JUNE 2019 Edition



PRESIDENT'S COLUMN

by Hank- W4RIG

Save the dates June 22-23 for some real fun with Amateur Radio ARRL Field Day runs from 2:00 PM local time on Saturday June 22 until 2:00 PM on Sunday, June 23, 2010. All CAARA members and friends are invited to try their



skills and talents with three stations at 6 Stanwood Street in operation as long as we have operators. Even the wee small hours of Sunday morning will be active across the US and /Canada on multiple frequencies. Voice, CW (any speed) and Digital operations will be open for participation. Experienced hams or just beginners or even those just interested can take some air time to talk to other amateurs in other parts of our Country and the rest of the World. We also expect to cook out for supper on Saturday evening - grilled hamburgers and hot dogs and the usual compliments will be available for no charge (donations always appreciated but not required). This has historically been a fun weekend and we expect to see some of our neighbors and elected officials visit for a while and even operate the radios - no experience needed - we will have coaches to help. Please come and have some fun with the other hams and their family members.

We expect to have a work day to install the new beam prior to Field Day Weekend - more on that from Jon Cunningham, K1TP, as we move closer to Field Day.

Thanks again for the great Public Service teams that have been



helping with the various road races and other public events such as parades and related summer activities. Special thanks to Tony Sarracino, AB1XK who has really put together a great program as Field Day Chairman, Thanks again to Chris Winczewski, K1TAT for his work as Chairman for Public Service events. and special efforts from Dave Linsky, N1CDL as House Co-Chairman for getting the building in good shape for Field Day and regular meetings.

INFORMATION DESK

by Dean- KB1PGH

We will start off with the ARRL contest calendar for the month of June. First we have the VHF contest on June 8 through the



10th. Then we have "Kids Day" on June 15th which is sort of a get on the air exercise for kids.hen of course we have Field Day which is on June 22nd and the 23rd.Of course I have to highly encourage everyone to participate in field day in some way, Especially to those who have never done it.It's a lot of fun.So if you are looking to mentor yourself in amateur radio or just looking to find out what's new there are a couple of podcasts out there. The ARRL has two podcasts. They are called ,"The Doctor is in" which is more technically oriented and the other is ,"So Now What?" which is based for newly licensed hams. You can find those at www.arrl.org .There is another podcast that has been going on for years and that is the "Hamnation" podcast. They just had their 400th episode and you can find then on www.twit.tv .Hamnnation also has a weekly videocast on Twit TV as well. Of course there are more out there but don't forget that there are amateur radio based podcasts you can listen to.Don't for get that you can also find pretty much anything you need to know about amateur radio on Youtube. Moving on, I read an interesting article from Adam Farson VA2OJ .Did you know that your HF rigs internal autotuner acts like a preselector in a way?If you use your rigs autotuner during transmit and receive you can get a 3 db isolation

CAARA Newsletter Cape Ann Amateur Radio Association

6 Stanwood Street Gloucester, MA 01930

CAARA Newsletter is a monthly publication of the Cape Ann Amateur Radio Association (CAARA).

It is the policy of the editor to publish all material submitted by the membership provided such material is in good taste, relevant to amateur radio and of interest to CAARA members, and space is available. Material is accepted on a first come, first serve basis. Articles and other materials may be submitted by internet to Jon at k1tp@arrl.net. If possible, material should be in Word format. Material may also be submitted as hard copy to Jon-K1TP or any Club Officer.

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Jon Cunningham- K1TP Editor Dean Burgess- KB1PGH Reporter

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Welcome to CAARA:

CAARA, an ARRL affiliated club, operates the 2 meter W1GLO repeater on 145.130 MHz with antennas located on the ATT cell tower in the Blackburn Industrial Complex in Gloucester Massachusetts. It has an average effective radius of 60 miles, and serves Eastern Massachusetts, Cape Cod, Rhode Island, Southern New Hampshire, and maritime mobile stations.

CAARA also operates the W1GLO repeater on 224.900 located at the CAARA clubhouse.

The former W1RK 443.700 repeater is now on the ATT cell tower in the Blackburn Industrial Complex with greatly enhanced performance.

The Association is one of the few amateur radio clubs that has its own clubhouse. Located at 6 Stanwood Street in Gloucester, it includes a permanent HF station with beam, vertical/wire antennas along with an operating 2 meter packet station as well as 2/440 meter voice and 220 MHz Transceivers.

Amateur radio exams are held on the second Sunday of each month at 10:00 AM at the CAARA clubhouse. Anyone who is considering a new license or an upgrade, is welcome to test with us. Pre-registration necessary. Contact the head of our VE team Rick Maybury-WZ1B if you have any questions about monthly testing.

Monthly member meetings are held on the second Saturday of each month at noon.

Each Sunday evening at 9:00 PM, the club operates a 2 meter net on 145.130. This is an open and informal net which disseminates club news and prepares operators for emergency communications work. All are invited to check into the net as club membership is not a requirement.

rom -2 MHZ and +6 MHZ on either side of your frequency. Adam says that your autotuner acts like a high pass filter. If you want to find out more go to his website at



www.ab4oj.com and you find the link to this article,plus

a bunch of other great information on his Icom webpage. I also was reading the ARRL propagation science book and there was a part of a chapter where they discussed how much fading of HF signals and their strength over time and instantaneously there is at any given moment due to the instability of the ionosphere .We don't notice it though because we always have our AGC or automatic gain controls on all the time on our rigs. So if you are bored, or if your a newbie, and you want to see how your rig is really receiving a HF signal turn off your rigs AGC and take a listen. You'll be surprised at how the signal you receive really goes up and down quite a bit. The reason being is that your antenna does not receive the signal from the other HF station all at once. The HF signal you receive actually comes in at different times from different angles off the

ionosphere.For the last tidbit for this months column.Did you know that nature makes sounds that you can hear and its not birds singing its VLF or very low frequency radio.It is also called sferics like the dawn chorus or whistlers.Actually it's pretty cool to

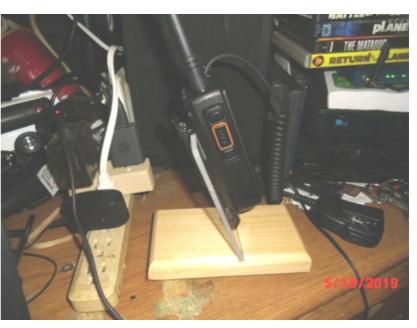
listen too.To learn all about sferics go to www.auroral chorus.com.

One last bit of information is if your into software defined radio a couple more SDR's are here. One that has just been released is the Yaesu FT 101D which goes for about \$4000 and the other that should be here in the fall is the Elecraft K4 rig which was just announced and that will cost you \$4000 as well so it looks like the future in ham radio is SDR! 73's for now,

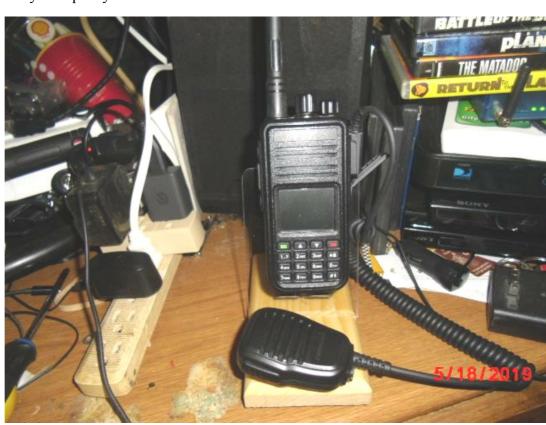
Dean Burgess-KB1PGH *ARRL EMA public information officer.*

W1WMM DESIGNS A WALKIE STAND FOR HIS HAM SHACK

Bill decided he had to many hand held radios floating around on his radio table and needed something to hold them upright. He looked at commercial solutions made of Lexan that cost over \$20.00....a little excessive.



So like many hams decided to design and build his own. The base is just pine and the holder is 1/4 Lexan hot glues in a cut groove. Problem solved, cost about \$2.00 for rubber feet.



HAMVENTION 2019 REPORT

I departed on Wednesday, May 15th from Boston to Philadelphia, PA and was scheduled onward transportation to Dayton, OH at 9am.

However, due to plane problems I did not take off to Ohio until 4:10pm as numerous attempts were fruitless.

Upon arrival, I checked into my motel and made communications with my friends of the International Order of Krazies at the home of Keith Farley, WA8ZWJ.

I arrived in sufficient time that I could participate in the 40 Meter Net that evening.

Coordination was made to meet for Breakfast at the Big Boy restaurant in Xenia before heading over to the Flea Market to set up our booth. This location is very close to the Fairgrounds and we took our breakfast every morning there.

Off to the Fairgrounds we went. We unloaded the pallets for the floor and set up the awning overhead so that we had shade during the days. I can tell you that the temperatures were over 80 degrees during the day and it definitely cut down on sunburns.

Friday Morning I took breakfast and hurried off to the VE Exam Session for HAMVENTION. The Dayton Amateur Radio Association is an approved Laurel Radio Club Exam entity and their procedures are different from those of the ARRL. There are two teams assigned, where 3 people correct, there is an Admin person entering the results into a computer and 3 people sign the 605 sheet and the CSCE. I can assure you I had writer's cramp as I signed over 200 folders of the test takers.

The difference is that the Laurel Group submit their results directly to the FCC, there is no mailing and electronically the results are forwarded and the candidates get their licenses in 1 or 2 days!

There were many activities in the evenings with the International Order of Krazies (I.O.O.K), the motto is, "The I.O.O.K travels on its stomach!" and numerous restaurants were sampled while I was there.

On Saturday, the 2nd day of the HAMVENTION, I arrived around 08:45 hours and since I had a volunteer ticket, I got early entry into the event. I took a picture of the crowd waiting to get in. There were are lot of people!!!!



Sunday the event ran from 9am to 1pm and everybody moved over to the Assembly Hall for the prize drawings. I am sorry to say that I did not win any prizes at HAMVENTION. So keeping within the norm, that is 37 years of no win.

Monday, after a Farewell Breakfast, I headed off to the airport for my flights to LaGuadia and Boston. I returned to Newburyport about 7pm on Monday. It was a good trip despite the SNAFU on the outbound plane. I am looking forward to the 2020 HAMVENTION.

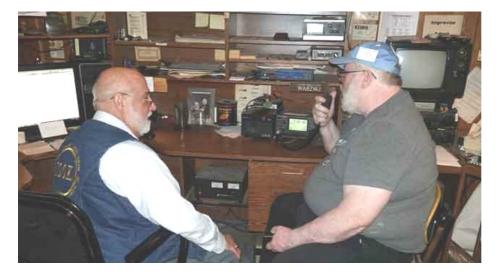
73,

BILL POULIN, WZ1L









Nice job with the story and photos from Bill- WZ1L who travels to this event every year.

Bill also travels to the MFJ event every year down south and will grab us some photos on that trip as well.

Thanks

Mr Black Sheep goes portable HF Operating

On Sunday April 28th Mr Black Sheep went on a portable High Frequency operating event at a secret location in Essex Mass.He set up a 4 Band dipole antenna attached to a Buddipole mast and his trusty Icom IC 7300 software defined radio.He operated for about 5 hours and worked several sideband stations on 20 and 40 meters.Mr Black Sheep tried several times to make contacts on 10 and 6 meters but the propagation was not there.The solar flux was 68 and no solar storms so the bands were quiet to listen too but propagation was poor.Mr Black Sheep says "Get outside and get DX`ing!"

Here's the list of contacts that were made:

KM4ZQGE 14.253 MHZ

W4H 14.363 Florida QSO Party

W4B 14.279

KT4Q 14.287

W4A 14.257

K2WLS 14.276

NN4TT 14.292

W4E 14.249

W9NY 14.205

KC4ZBD 14.205

NX1Q 14.240

N1KSC 14.259

WA4LLR 14.180

WA0DQR 14.313

AG4UU 14.313

N4DY 14.257

K4YL 14.255

NJU2S 7.255 ECARS NET

KB3MZQ 7.200

KC3RW 7.248 NPOTA

N0JSD 7.205

K3BFQ 7.175

AE1U 7.240 NPOTA

KD2KRG 7.190







CLUB SHOTS







Bill- W1WMM mopping up the kitchen floor, a road race photo, members chatting in the club kitchen, and a shot of the recent tornado damage to Hara Arena, the old hamvention venue in Dayton.







CLUB IMPROVEMENTS



The club would like to thank Cutter KC1JKJ for upgrading the electrical system in the kitchen of the clubhouse. No more blowing breakers as Bill is cooking breakfast, an additional 20 amp circuit!

Tony- N1JEI



I called Kevin, he came to the club this afternoon and fixed the problem with the heater. It took him about 40 minutes and a couple of parts. Kevin enjoyed seeing the club. Kevin donated his time and the parts. He's coming back in a couple weeks to clean and service both heaters and change a part. Once this is done the building will be ready to go for the next heating season.

It would be nice if you could recognize his donation in June news letter. I enjoyed the May news letter and AA3JE's article they are always well written and humorous! Great job the news letter as always!

Tony N1JEI 73's





Flags on the Boulevard in Gloucester, MA

Tony- N1JEI and his wife have been a part of this tradition since it started. You can buy flags for \$20 and have your family members name put on it in remembrance.

Photos by Tony







Photo above taken by Hank- W4RIG. He shot it while working the race providing health and safety checks for the runners and organizers. We need more volunteers for this community service, please contact Chris-K1TAT for details.

On the left, a D104 microphone tattoo. I had never seen a ham tattoo. The tattoo was done by a relative of Bob Spanks- WA1UCG.

Shot of the new Elecraft K4 at Dayton Hamvention below.



It's spring by Curtis-AA3JE

It being the first official day of spring, I decided to make dinner a treat! I got out the hamburger, sliced the onions, found the bag of

chips, got out the frozen French fries, and prepared to cook.

"WHAT ARE YOU DOING WITH THAT FRYING PAN?" asked SHE WHO MUST BE OBEYED.



"I was going to fry the burgers, dear."

"OH! I HATE THEM PAN FRIED! USE THE GRILL."

I looked out the window, were I had just shoveled the 14 inches of show off the deck. I had cleared the grill, but it still looked frosty.

That was natural, as it was 22 F, blowing 20 knots from the North.

"It's a bit cold."

"MAN UP! DON'T TELL ME I MARRIED A SNOWFLAKE?"

So I went outside, and tried to light the grill.

No Propane.

So I went down and dug the full cylinder out of the snow bank under the porch.

I changed the cylinders, not easy at sub-freezing temperatures.

Amazingly it lit! And after 20 minutes was warmed up. I was not.

So I stood out in the fresh breeze, cooking hamburgers on a grill that struggled to maintain heat in the north wind, and after 20 minutes had the cheeseburgers ready.

So I served chips, fries, and cheeseburgers.

"THESE FRIES ARE DIRTY! WHAT DID YOU DO?"

"Salt and pepper, dear."

"I DON'T LIKE PEPPER ON MY FRIES! AND WHERE IS THE MAYONNAISE?"

"Under the burger."

"I LIKE TO SEE IT! AND ANYWAY, PEOPLE LIKE TO SALT AND PEPPER THEIR OWN FOOD."

Note to self: Wear the heavy parka. No pepper or salt on fries. Check if the homeless shelter has vacancies.



PUBLIC SERVICE ROAD RACES

CAARA Public Service Schedule 2019

- 1 Fool's Dual March 31, 9:00am 5K Race Start 10:00am Half Marathon O'Maley Middle School 32 Cherry Street Gloucester, MA.
- 2 Twin Lights Good Harbor Beach April 27, 9:00am Half Marathon Start Thatcher Road Gloucester, MA.
- 3 Rocky neck Art Assn. 5K. Run/walk Team Challenge May Date T.B.D.
- 4 Fast Half May 11, 9:00am Half Marathon Start Hamilton Wenham High School 775 Bay Road South Hamilton, MA.
- 5 YMCA Backshore 5K Thursday, May 16th, 6:00pm:, Good Harbor Beach, Gloucester
- 6 Motif No.1 Day Arts Fest & 5k Fun Run Date T.B.D.
- 7 Cape Ann Trail Stewards. Dogtown 5 Mile Trail Run 19 May 2019 9:00 AM
- 8 Twin Lobster June 2,8:00am 1-Mile Race Start 8:30am Half Marathon Start Gloucester High School 32 Leslie O Johnson Road Gloucester, MA.
- 9 YMCA Father's Day 5K Sunday, June 16th, 9am:, Rockport High School, 24 Jerdens Ln.
- 10 YMCA St. Peter's Fiesta 5K Thursday, June 27th, 6:00pm:, Stage Fort Park, Gloucester
- 11 Triple Threat August 4,8:00am 1M Race Start 8:20am 5K Race Start 9:15am Half Marathon Start Rockport High School 24 Jerdens Lane Rockport, MA.
- 12 Half Marathon by the Sea September 22, 10:00am Half Marathon Start Manchester Essex Memorial Elementary School 43 Lincoln Street Manchester-by-the-Sea, MA
- 13 The Lone Gull 10K Road Race September. Date T.B.D.
- 14 Parker River Half Marathon. October 6, 9:00am Half Marathon Start Triton Regional High School112 Elm Street Byfield, MA 01922
- 15 Ocean View November 3, 8:30am 5k Race Start 9:30am Half Marathon Start Ipswich High School 134 High Street Ipswich, MA 01938
- 16 Holiday MerryThon. December 1, 9:00am 5K Road Race Start 10:00am Half MerryThon Start Good Harbor Beach Thatcher Road Gloucester, MA.

Why should you participate in race events?

It helps the club financially, we receive a donation for each race. You are using amateur radio to provide a needed public service to ensure the safety and smooth running of a public event in local communities.

I would but I do not have a radio.

No excuse, we have loaner radio's available with a mag mount that will work in your car just by just plugging

into the cigarette lighter socket. We have loaner hand held radios as well!

I don't have transportation.

I do not have the time to spare for a whole race.

No excuse, we will pick you up and drop you off at your house.



Well, you can commit to a time slot, for just two hours. We will bend over backwards to get you to participate.

Our Sun's Mysterious 11-Year Cycle Appears to Be Driven by Alignment of The Planets

MICHELLE STARR

Every 11 years, the Sun cycles through from riotous flare and sunspot activity to a quieter period, before ramping up again. It's almost as regular as clockwork, and for years astronomers have been wondering what causes it. Now, they've proposed a new solution.

Even though the Solar System's planets are much smaller than the Sun, the gravity of some of them is able to influence our star's magnetic field. This, the researchers assert, is what controls the solar cycle.

Venus, Earth, and Jupiter assert a small gravitational tug on the Sun as they orbit it. The result is comparable to the way the Moon's gravity influences Earth's tides, producing a regularly timed ebb and flow.

The team has traced back 1,000 years of solar cycles, between the years 1000 and 2009 CE, comparing that data against the movements of the planets in that time. They found an impressively strong link between the two.

"There is an astonishingly high level of concordance: what we see is complete parallelism with the planets over the course of 90 cycles," said physicist Frank Stefani of the Helmholtz-Zentrum Dresden-Rossendorf in Germany

"Everything points to a clocked process."

What the team found is that the tidal forces are strongest when Earth, Venus, and Jupiter align, and that this alignment occurs every 11.07 years - falling at the same time as the solar minimum.

The effect is a weak one, unable to affect the Sun's interior. This, potentially, could be why no one has previously connected the dots between the solar cycle and the periodicity of the planetary alignment.

But the team has found that despite being weak, the tidal forces can still affect the Sun's magnetic field; in particular, they can influence oscillations in something called the Tayler instability. Such instabilities appear in toroidal (or doughnut-shaped) magnetic fields, where pressure is applied perpendicular to the field's direction.

This causes the field to become compressed, like a spinal column, creating instabilities a bit like slipped discs. These 'slipped discs' in the magnetic field are the Tayler instabilities, and they create perturbations in the solar flux aEven a small amount of energy - such as, say, from a tidal event - can reverse the oscillations of these perturbations. And if those tidal events were occurring, for example, every 11 years or so, they could trigger a cyclic reversal in the polarity of the magnetic field, resulting in regular fluctuations in activity that corresponds to the cycle.

"When we discovered the current-driven Tayler instability undergoing helicity oscillations in our computer simulations," Stefani said, "I asked myself: What would happen if the plasma was impacted on by a small, tidal-like perturbation?

"The result was phenomenal. The oscillation was really excited and became synchronised with the timing of the external perturbation."

Pretty neat, huh?

And this model could help explain some other mysteries about the Sun. For example, most solar cycles have double peaks at their maximum, with a brief lull in between; this appeared in the simulation.

Other regions to be explored are the way the tidal forces potentially affect the plasma layers in the tachocline, at the base of the convection zone, so that the magnetic flux is conducted more easily.

It could also help us to understand the giant, magnetized Rossby waves that have only recently been discovered rippling across the Sun - and may have something to do with flare activity.

In turn, this could help us better predict out Sun's giant, violent outbursts: a good thing, considering they have the potential to affect our life here on Earth.

The research has been published in Solar Physics.

China Set to Launch New Amateur Satellite with "Sail Ball" Stabilization

Chinese Amateur Satellite Group (CAMSAT) has announced the impending launch of the CAS-7B satellite, also designated as BP-1B, a short-lived spacecraft that will carry an Amateur Radio payload. An unusual feature of the spacecraft is its "sail ball" passive stabilization system. The 1.5-U CubeSat is attached to a 500-millimeter flexible film ball — or sail — that will offer passive "pneumatic resistance" stabilization. CAS-7B is expected to remain in orbit for up to 1 month.

The spacecraft will carry an Amateur Radio transponder and educational mission. CAMSAT is working with Beijing Institute of Technology (BIT), a top aerospace school, which is providing launch support in launch of the satellite. BIT faculty and students are participating in the development and testing of the satellite, and, with CAMSAT's help, the university has established an Amateur Radio club (call sign BI1LG). CAMSAT said many students are now members, "learning Amateur Radio satellite communication and experience[ing] endless fun."

The VHF and UHF antennas are quarter-wave monopoles. CAS-7B will transmit a CW telemetry beacon on 435.715 MHz. The V/U FM voice transponder downlink will be 435.690 MHz, and the transponder uplink will be 145.900 MHz (16-kHz passband).

The 3-kilogram satellite will have an apogee of 300 kilometers.

"Because of the orbital apogee and the size and mass of the satellite, the orbital life is expected to be only 1 week, up to a maximum of 1 month, which will also provide an opportunity for hams to track and monitor satellite entering the atmosphere," CAMSAT said in announcing the new satellite, scheduled for launch in late June.

"The launch will use a new launch vehicle from a small commercial rocket company," CAMSAT explained. "This is the first launch of this launch vehicle, and there is a large possibility of failure; if the launch fails, we will have another launch later this year."

Emergency Messaging Demonstration for Red Cross, FEMA is a Success

With Red Cross and Federal Emergency Management Agency (FEMA) officials monitoring, dozens of radio amateurs along the US east coast on May 23 demonstrated Amateur Radio's ability to deliver messages without commercial power, infrastructure, or permanently established stations. The event took place in coordination with ARRL. The demonstration was a mock response to a simulated disaster scenario — a major hurricane with mass casualties. During the event, radio amateurs at portable stations from New England to the Carolinas delivered message traffic to W1AW, which coordinated and delivered the information to officials attending a joint Red Cross-FEMA meeting in Baltimore.

Sherlock Solves a 30 Year Transmitter Hunt

This transmitter hunt began in 1987 on a VHF simplex frequency in the United States. The hidden transmitter was always mobile and always playing music.

Violation of US FCC regulations 47 CFR Part 97.113 (d) and (e).

His transmissions were diligently recorded by several 'Hunters' over the years. The hunt seemed hopeless because even the direct surveillance techniques and "Transmitter Finger Printing" were unsuccessful. The first Finger Print of him was made in Sept. 1986 using the technique described in the May 2017, CQ Magazine Article, p. 32.

• "There is nothing more stimulating than a case where everything goes against you". Quotation from 'Hound of the Baskervilles'

He was known as the "Music Man" because he played unwelcomed music from his car FM radio onto the Ham Band. His operations began to be more frequent in 2015 and new hunters were added to the group.

Once he had an interruption in his travel and some expletive came from a man's voice. We got his voice on tape.

"Never trust to general impressions, my boy, but concentrate yourself upon details." Watson, "There are no insignificant details". Quotation from 'A Case of Identity'.

Facts: He transmitted from the northern part of the city but only in motion at high speeds (Fast flutter indicating speeds above 40 mph), that meant he was on the freeway. Direction finding bearings always showed his path to be from the north to the center of the city and frequently back again.

His daytime operating times were random so he did not have a rigid 8 to 5 job. His operating days and times were plotted on a calendar to develop a pattern.

He never transmitted from a stationary position, not even stop signs. Once his flutter was slow but constant and we saw (on the traffic cams) that the north bound freeway had heavy traffic. By that we knew he was north bound (going home). The traffic counter showed 2000 cars per hour.

His signals were heard by others 50 miles away so he had at least a 30 Watt radio with an outside antenna. Several secret observation sites were used to scan the traffic on the freeway during his past routine, His car was seen once even though he was not transmitting at that time! Since we knew his travel pattern we were transmitter hunting for him even when he was not transmitting. His transmissions times were about 10 to 20 minutes in length but sometimes occurring only once every 6 weeks.

Several suspect cars were identified because of external whips. These days only about 1% of the modern cars have any whip antenna at all so a VHF whip is easy to spot. Photos were also taken for later review. A list of other hams who were on the air at the same time as the music man was collected so we knew who he wasn't. These hams were available as 'approved' "T Hunters". A few times his signal went north and then just faded out, sometimes same to the west which indicated that he left the city.

The Final Day: His signals were tracked down south on the freeway, like many times before, but this time they kept going south for half an hour and got very weak. There are very few roads to the south - southwest from the city. Then the music stopped. (There only a few remote cabins in that canyon and this is where there is an access road to a locked secure private location begins). I hour later a ham started operating from that southern location on a different frequency.

(We were scanning all other frequencies for such transmissions because he apparently never used the frequency he was jamming). He gave his call sign during his operation and about 1 hour after that activity stopped, The Music Man started up again from the same very weak southern location. The music continued to get stronger and went through the center of the city and north on the freeway as it usually had on other days. Then it stopped.

The QRZ.com allowed us to have a call sign by address/ZIP code directory so we knew where all the hams lived. The QRZ locater for the call sign we heard (Extra Class) showed his home as being in the northeast part of the city. Googling 'Street View' brought up the picture of his house and his car was in the drive way. That Car was The One Spotted on one of the Freeway 'Stakeouts' with the VHF whip on the rear of the roof!

The Next Step: Sharing this information with the authorities in hopes that the Music Man will soon disappear from the band

• "I am not the law, but I represent justice so far as my feeble powers go". Quotation from the Adventures of the Three Gables.

This article is from the notes of Sherlock but some of the direction finding details (AN/PRD-12) and physical interdiction methods of this investigation had to be censored to prevent future 'music men' from avoiding detection.

Sherlock is monitoring, just waiting for another case.

The Game is Afoot.

("I should prefer that you do not mention my name at all in connection with this case, as I choose to be only associated with those crimes which present some difficulty in their solution", Quotation from the Adventure of The Cardboard Box.

The identity of the City and of Sherlock in this case must remain hidden because of requital. This is a real event and some music men are armed). EHAM ARTICLE



JUNE 22-23 AT THE CAARA CLUBHOUSE



CAPE ANN AMATEUR RADIO ASSOCIATION

6 Stanwood Street Gloucester, MA 01930

> 978-282-7645 www.caara.net

Repeaters on 145.130 224.900 & 443.700

S	M	Т	W	Т	F	S
		Open House-5- 10pm				1
CAARA NET	3	4 Open House-5- 10pm	5	6	7	8 BOD Meet- 11am Members Meet Noon
ON THE 8 145.130 REPEATER EVERY	10	Open House-5- 10pm	12	13	14	15
SUNDAY 16 NIGHT AT 9PM	17	18 Open House-5- 10pm	19	20	21	22 FIELD DAY AT CLUB
23/30 FIELD DAY AT CLUB	24	25 Open House-5- 10pm	26	27	28	29