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THE WECAGRAM



Newsletter of the

Westchester Emergency Communications Association, Inc.

Post Office Box 831

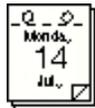
Sleepy Hollow, New York 10591-0831

WECA Information Hotline: 914-741-6606

Web site: <http://www.weca.org>

Serving the Public through Amateur Radio and serving Amateurs since 1972

Volume 21, Issue 7 July 1997



Now You're Operating CANCELLED

REGRETTABLY, THIS EVENT HAS BEEN CANCELLED. On Monday, July 14, 1997, instead of our monthly meeting, WECA will once again be holding a special Summer Seminar at the Westchester County Center in White Plains.

The program will focus on setting up and operating an amateur radio station, with topics such as home station setup, mobile installations, antennas, HF operations, contesting, repeater operating, and etiquette. While topics will mostly be geared towards the

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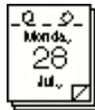
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newly licensed, all are welcome to attend.

The seminar will take place at our usual meeting time, so show up between 7:30 p.m. and 8 p.m.

Last year's Now You're Operating seminar was a great success. I hope you join us this year.



Next Board Meeting

The next WECA board meeting will be on Monday, July 28, at 8 p.m. at the EOC (148 Martine Avenue) in White Plains, NY. Meetings are open to all WECA members.



Election Results

WECA held elections at the June meeting. The following were elected into office:

President:	Joe Brown, KB2NBN
Exec. VP:	Dave Weiss, N2OGK
Counsel:	Mike Weitzner, N2EJI
Secretary:	Anthony Licata, N2NWZ
Treasurer:	Andy Farber, N4OOX
Dir. at Large:	Ron Devenuti, N2TJE
Education:	Darlana Mayo, N2DB
Engineering:	Bob Wilson, N2DVQ
Repeater Ops.:	Dwight Smith, N2FMC
Social:	Tom Raffaelli, WB2NHC

WECA thanks outgoing directors Barry Frajer, N2LE, and Salvatore Cresenzi, KB2GTE, the election committee--Joe Bruno, WB2VVS (Chair), Bill Hertwig, N2QZB, and Sandy Fried, N2SF--and everyone who participated in the elections.



Philharmonic at W.C.C.

"Priceless Music, Absolutely Free"

On Saturday, July 26, 1997, WECA volunteers will once again provide communications support to the New York Philharmonic Orchestra's outdoor concert and fireworks display, to be held at the Westchester Community College in Valhalla.

To volunteer, please call Robert Kantor, N2TSE, at 914-949-4231. About 20-25 volunteers are needed.

From the Editor

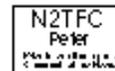
As I begin my second year as newsletter editor with my thirteenth issue, I'd like to thank everyone who has helped me in the production process, especially my "regular columnists" as well as all of you who have submitted articles. I'd also like to thank Alan, N2YGK, for picking up the final printout of last month's issue from my home, and getting it duplicated, as well as getting all the board members at the May board meeting to chip in with the folding, stapling, labeling and mailing of the newsletter, while I was home learning to take care of my newborn daughter.

In this issue I've finally had the space to print pictures and participant lists from recent WECA public service events. My apologies for not acknowledging the dedication of all the volunteers sooner.

If you have any anecdotes, one liners, articles, etc. about Field Day 1997, please send them to me for the August issue.



Robert, N2TSE, WECA Public Service Director at the MS Walk.



New Members

Please welcome the following new WECA members, who have joined the club recently:

KC2BDT	Mark Danon	Chappaqua, NY
KC2BFW	Gerald Kaufman	Millwood, NY
KC2BFX	Jason Kaufman	Millwood, NY
KC2BFZ	John Powers	Eastchester, NY
KC2BQM	Ron Porcelli	Briarcliff Manor, NY
KC2BTZ	Joe Jordano	Mt. Vernon, NY
WW3K	Dom Tuzzo	Croton on Hudson, NY
N2SKP	Shirley Dahlgren	Verplanck, NY
N2YRU	Maxine Helman	Mt. Vernon, NY
KB2ZAM	Tom Fegan	Yorktown Hts., NY

Recent Public Service Events

by **Robert Kantor, N2TSE**

The past few months have been very busy as WECA radio operators volunteered their time as communicators in several public service events. Thanks to everyone who participated.

Walk for Multiple Sclerosis

On Saturday, April 20, the following 30 volunteer communicators (in no particular order) provided communications support at the Walk for Multiple Sclerosis at Rye Playland: N2s MEF, YGK, DVQ, SF, ZRC, TWN, TJE, TFC, AMP, TSE, QZB, DB, UXJ, OLU, FMC, NWZ; KB2s YHT, NBN, SPC, SPA, ZPT; WB2s NHC, VVS; WA2NRV, N3EMF, N1XXU, W2RWR, KG2KO, AA9LA, and KC2ARX.



Anthony, N2NWZ, Ron, N2TJE, NY Times reporter Tom Callahan, and Joe, KB2NBN, at the MS Walk.

Photo: N2TFC

March of Dimes WalkAmerica

On Sunday, April 27, 18 people volunteered their time at the March of Dimes WalkAmerica in Mt. Kisco: N2s TSE, DVQ, UXJ, KIM, AMP, TJE, YYL, QZB, TWN; KB2s JKC, SPA, YHT, ZPT, NBN; KA2CFB, WB2s LNB, IAE; and N1ONZ.



Russ, N2AMP (4th from left), Bill, KB2YHT (6th), Gary, WB2IAE (8th), and Gary's sons Marcus, Oren and Gideon (2nd from right, in Gary's arms, and rightmost, respectively) at Rest Stop 6 during the March of Dimes event.

American Diabetes Association Tour de Cure

And most recently, 25 stations participated in the American Diabetes Association's Tour de Cure bike tour on Sunday, June 8: N2s

TSE, TWN, SF, OGK, ZRC, YYL, NWZ, AMP, TJE, UXJ, XRC, DVQ, FMC; KB2s NBN, ZXP, SPA, SPC, VNX; WB2s IAE, VVS, LNB; KG2KO, W2RWR, AA9LA, and WA2KHR.

June Meeting Minutes

by **Anthony Licata, N2NWZ**

Meeting called to order at 8:10 p.m. on June 9 by President Joe Brown, KB2NBN.

Participation Awards were given out: 1st year: WB2IEA, N2IYR, AA9LA, KB2SPA, N2VQP, KB2YUD, KB2YUE, KB2SPA, and N2ZRC; 2nd year: N2OBY, N1TKS, N2UYW, KB2VNX, and KB2WHF; 3rd year: AC2T, AC2V, KB2PWT, and N2VMR; 4th year: N2PLX, N2RYI, N2VQV, and N2XRC.

Motion presented that the Secretary cast one vote for the uncontested positions of President, Vice-President, Secretary, Treasurer, Director at Large, Engineering Director, and Repeater Ops. Director. Motion made by WA2KHR, seconded by KB2SPC. Motion passed.

Tom, WB2NHC, gave a slide presentation about what happens at Field Day. The slides show how the setup goes, with scenes of towers and tents going up, the wiring of power and the computer network. He also had slides showing the social aspects of Field Day, such as cooking and the teamwork of making an enjoyable Field Day.

Tom, WB2NHC, also announced that September 14 has been confirmed for the upcoming outdoor WECAFEST at Yonkers Raceway.

Joe, KB2NBN, said the September meeting date has not yet been confirmed. Check future WECAGRAMs for date. [He has since confirmed that the meeting has been moved to Tuesday, Sept. 9. -Ed.]

Joe, WB2VVS, chairman of the election committee announced the election results. [See article on front page. -Ed.]

Robert, N2TSE, reported that we had 25 stations operating at the ADA bike tour. The next event is the Philharmonic Concert at the Westchester Community College in Valhalla on July 26.

Alan, N2YGK, reminded everyone that there is an ARES/RACES training net every Wednesday after SDN.

Meeting adjourned at 9:40 p.m.

APRS Tracking the MS Walk and MD WalkAmerica.

by Alan Crosswell, N2YGK

WECA used APRS for the first time at the MS Walk at Rye Playland on April 20th and the March of Dimes WalkAmerica in Mt. Kisco on April 27th. We only had one tracker operating in a vehicle: a beta-test model of the Tucson Amateur Packet Radio (TAPR) APRS Mic Encoder, shown here as part of my public service go-kit:

Kenwood TM-733A dual-band mobile,

Dual-band mag mount antenna,

APRS Mic Encoder (beta test model) with a Radio Shack gadget box for the various connections, and,

A DeLorme Trimate Global Positioning System (GPS) receiver.





Photo: N2YGK

For the Rye event, I rode with MED-1, one of three volunteer EMS crews from the Ossining Volunteer Ambulance Corps, OVAC. For the Mt. Kisco event, I lent my equipment to Bill Nolan, KB2YHT, as I was part of the crew up at the ENY Convention at Beaconfest where we ran APRS in the Red Cross Comm Van (along with 10-80m HF, VHF, UHF, and ATV).

To use APRS at these events, quite a bit of advanced preparation was required: I generated street-level detail APRS maps from US Census TIGER/Line data, using a program I wrote called *tig2aprs*. You can find the program at <http://www.cloud9.net/~alan/ham/aprs>. The maps can be found on the WECA APRS web page, <http://www.weca.org/wcaprs>. I used DeLorme Street Atlas USA to trace the planned route, exported this route to a file, and then used the list of way points to enhance the APRS street map with a highlighted outline of the route.

I set up an APRS digipeater at home that translates the Mic-E packets from 147.06 to 145.79, the local APRS frequency. The digipeater is another program I wrote called *aprsdigi*.

For the ENY Convention, Dwight Smith, N2FMC, set up a temporary 145.79 digipeater at a hilltop site near Fishkill and another at the Grasslands tower to ensure that our APRS activity would make it up to Fishkill. And, Anthony Licata, N2NWZ, brought his laptop and a VHF rig for APRS, among other things! Also, Bill put up a temporary digipeater on 145.79 at his girlfriend's house near Mt. Kisco.

On the day of the Rye event I set up my laptop computer next to the NCS in the comm van, connected to the packet TNC and monitoring 145.79.

I dropped my go-kit into Pete from OVAC's 4WD (he was MED-1) and off we went. As usual when riding with Pete I had to clip on to his battery since his cigarette lighter plug was otherwise occupied with a splitter for his cell phone and Dashmaster strobe light.

What Worked and What Didn't

Using the Mic-E eliminated the need for a second radio that one would need if using a conventional TNC-based APRS tracker and the desense problems that would occur if both were on 2 meters. However, using the Mic-E also meant my position reports were only transmitted when I keyed up or the occasional time the frequency was clear long enough for the automatic transmissions to happen. This means the NCS generally didn't have a current position for MED-1 without first communicating with me.

Pete's vehicle has a near vertical windshield which prevented the Tripmate from getting a good position lock. I ended up duct-taping the receiver to his roof. Bill had to do the same for the WalkAmerica when he rode in a bus. This was further complicated

by a total lack of visual feedback from the Tripmate of whether it had a good fix or not. Like many GPS receivers, if the Tripmate fails to get a fix or loses it for long enough, it appears to require power-cycling before it will successfully reacquire. The only way to know for sure that the Tripmate had a fix was to get someone monitoring APRS to check or to hook up a laptop computer to it -- not exactly a comfortable position to be in for the person setting up a mobile tracker in a served-agency vehicle.

We had the comm van station on 145.79, listening for the repeats of the Mic-E data. Unfortunately, 145.79 was being desensed by the 147.06 NCS transmitter and digipeater coverage into the area was poor anyway. So, the map at the NCS position missed many of the transmissions. In hindsight, we should have put the NCS packet station on 147.06 and monitored the Mic-E transmissions directly.

When I got home and looked at the log of the 147.06 to 145.79 digipeater, it had logged many position reports. If you have a Java-capable web browser, you can see the replays at <http://www.weca.org/wcaprs> .

For the Mt. Kisco event, I goofed up my aprsdigi configuration so that none of the 75 or so position reports received from Bill on 147.06 made it up to Fishkill. The one or two that did happen when he switched over to 145.79 and kerchunked the Mic-E.

All of Dwight's hard work to get the temporary digi installed did not go to waste as Arte Booten, N2ZRC, who was running an APRS demo from inside the hamfest was able to digipeat through Anthony's station in the van and from there through Dwight's on the hill. Normally, Dutchess County and Westchester County do not see each other on APRS due to a lack of WIDE digipeaters in Dutchess and Putnam. It turns out that Erik Pedersen, N2VHL, had also put his station on the air so we had a backup path.

Many of the lessons learned with the beta-test Mic-E by us and the other 50 or so beta-testers have been fed back into the final design of the production unit that went on sale at Dayton.

The need for an ugly connector box is gone: the production Mic-E is wider and has front-panel modular and round microphone input jacks, and rear-panel modular mic out jack and an internal "personality header" jumper block for tailoring the unit for your specific brand of radio. The unit comes with a modular cable and a round mic plug that you can put on it to allow connection back to your rig.

Positive feedback of a valid GPS fix is now indicated by a tri-color LED on the front panel. I've already upgraded the firmware on my beta model and retrofitted this feature!

Several other tri-color feedback LEDs have been added to aid in determining the settings of the message and digi path controls in the dark.

About a dozen other less-visible improvements were made as well.

My Beta Mic-E Setup

On top of the rig is the beta-test Mic Encoder (see picture on the previous page). The production version looks nicer! (See <http://www.tapr.org/tapr/html/mic-e.html> .) The beta unit has, from left to right:

Digipeater path switch used to select how you want your position to propagate: omnidirectional or directional, by choosing different digipeater paths (similar to the UNPROTO ... VIA command in a TNC).

Status message number switch. There are 8 canned statuses ranging from off-duty to emergency. This switch also selects conventional or special SSID digipeat mode (which results in much shorter packets but can only be used with an SSID digipeater like *aprsdigi*).

AUTO switch to enable automatic position reports to be sent periodically.

Power switch.

To the right of the rig, attached to the mounting bracket is a Radio Shack project box. On top is a master power switch for the Mic-E and Tripmate GPS. On the front are:

Mic input modular jack, wired for my TM-733's mic.

DeLorme Tripmate "self init" toggle switch. This loops the Tripmate's TxD back to RxD to make it hear what it wants (the same thing it keeps printing at boot up, "ASTRAL") in order to start generating NMEA-0183 GPS status strings. Opening the switch passes TxD through to the front panel DB-9.

A DB-9 connector to plug my laptop in so I can run Street Atlas USA concurrently with the Mic-E. That way I know where I am too!

Coming out the back of the project box are:

DC Power.

A cable with a mini-DIN that routes audio, PTT, and DC power into the Mic-E beta unit.

A cable with a DB-9 that routes GPS data into the Mic-E beta unit.

A cable with a DB-9 that connects to the Tripmate for NMEA data and to supply power and the "turn-on" signal. Powering the Tripmate this way eliminates the need for batteries.

A modular cable that goes into the TM-733's mic jack.

A mini-DIN that connects to the TM-733's data jack. I use this to get the SQC (squellch) TTL output which is high when the radio is unscquelched. This is used for the Mic-E's holdoff circuit which prevents it from automatically transmitting when the frequency is in use.

Inside the project box are:

Mostly a rats nest of interconnecting wires and a couple of diodes between the various jacks and plugs. I used a generic drilled PC board from Radio Shack (sliced in half the long way and stood on edge) to do all the interconnections.

An LM317T power regulator, programmed to about 8.2V with a couple of resistors. This supplies power to the Mic-E and the Tripmate.

The reason I chose 8.2V is that's what resistors I had in my junk box that got me between 7.5 and 11V. Both the Mic-E and the Tripmate have internal regulators. The Tripmate FAQ on the Internet, <ftp://sundae.triumf.ca/pub/peter/tripmate.faq>, says the Tripmate's regulator has a maximum input power of 11V, so I couldn't just dump 13.8V in! The Mic-E uses a 7805 regulator and I wanted to leave it in line (there is a jumper to bypass it when the supply power is less than 7.5V) as extra protection for when I power the unit from a different source, such as the 9V battery I use when configuring it.



Front of production Mic-E



Back of production Mic-E

Photo: TAPR

For Sale

Henry 2K-X console. Triex LM470.
KLM 40M dipole KT-34A.

DTMF auto-call dumb terminal.
Yaesu FT-23R, FT-811
Optoelectronics interceptor
Low pass filters (#2).

IBM personal dictation adapters(#2) with software.

Call: Charles Starke, NX2T. 914-923-4185.



Streamlining Tactical Net Procedures

by Alan Crosswell, N2YGK

Thanks to Robert Kantor, N2TSE, WECA's Public Service Director, for leading the ARES/RACES training net on May 29th. Robert discussed some mechanisms for speeding up net traffic by giving a couple of examples which are roughly reproduced below. Much of this article is due, as usual, to all of you who participated in this and other training nets in addition to the public service events.

NCS as Bottleneck

Here's a typical scenario heard during public service events:

A: Net control, rest stop A.

NCS: Rest stop A, this is Net, go ahead.

A: I would like to speak to rest stop B please.

NCS: *Rest stop A, please call rest stop B direct.*

A: *Rest stop B, this is rest stop A.*

B: *Rest stop A, this is rest stop B, go ahead.*

(Now, finally, the messages gets passed.)

Why is it we need an NCS again? To maintain order on a busy net is what most people would say. Certainly not to bog the net down. Without an NCS, net discipline tends to fall by the wayside, prioritization of competing requests for use of the frequency doesn't happen, and a lot of doubling does happen!

Why not just say your entire message right away? Because another operator may have the same idea and the two of you will have a nice long double. We've all heard these and been part of them during informal conversations on the repeater. That's where the NCS comes in. Even when there's a double with two or more stations calling, NCS will know it and be able to sort it out.

NCS as Facilitator

A quicker method of doing the above is:

A: *Net, post A words with post B.*

NCS: *Post A call post B.*

A: *Post B, post A*

B: *post B*

(A sends message)

or, even better:

A: *Net, post A words with post B.*

NCS: *Post B call post A.*

B: *Post B*

(A sends message)

Note a few items in these examples:

Short single syllable words are used: "Rest Stop" is shortened to "Post," "Net Control" is shortended to "Net."

Post A simply wants to call Post B, and says so when calling net.

This is not a lengthy message so there is no need to be recognized by the NCS first before making this request. However, a longer message than this is inappropriate to say without first being acknowledged by the NCS first.

NCS is Not Shadow 1

In general, the NCS is sitting in a communications room next to the REACT and other service net controls and not next to the head event official. A lot of times this is because the official likes to roam around to personally resolve problems and not be tied to a desk. (The NYC Marathon is a notable exception in that a Road Runners official is in the NCS trailer and available for questions from any of the four or five pairs of NCS operators.)

Knowing this, and listening to others on the net, you can quickly avoid a step and know who to ask NCS for permission to call with a query. Another example:

A: Net, post A.

NCS: Post A.

A: We need more cups and water.

NCS: Shadow 1 call post A

S1: Post A, Shadow 1

A: We need more cups and water.

S1: Roger. Will get back to you. Back to Net.

After hearing the above...

B: Net, post B words with Shadow 1

NCS: Shadow 1 call post B

S1: Post B, Shadow 1

B: *We need water and oranges.*

S1: *Roger. Will get back to you. Back to Net.*

Listening

As indicated in the above example, attentive listening is one of the most important tasks of every operator. One should be able to answer many an official's question without having to go on the air. Common questions such as where is a given vehicle, the head, the tail, etc. will frequently be asked. Even if the event official doesn't have the discipline to keep a status board you should try to do so on your notepad.

Headphones can frequently aid in listening, especially when you end up stuck standing next to the inevitable entertainment at a walkathon or the electrical generators at a disaster scene. However, there are also times when it is advantageous for the event official to hear your radio first hand to avoid having to play "telephone." You will need to make the judgement about 'phones but should be prepared to go either way.

Legal Identification

Contrary to conventional wisdom, Part 97 is not suspended during walkathons or even actual emergencies. We are legally required to identify our stations every ten minutes and at the end of a conversation. Don't over-identify, but do identify. You don't necessarily have to be heard when you ID, as long as you do transmit an ID. If you can do it without messing up (I can't!) feel free to transmit your ID simplex, without PL, etc.

It's Still "Callee From Caller"

I don't know why, but many of us seem to switch into another mode when in public service nets and start saying, "Post A to Net" instead of "Net from Post A." I know the Amateur Service is one of the few that uses this syntax, but it is ours and can only serve to confuse things when the normal order gets reversed. Besides, having your tactical call at the end of the transmission means it is less likely to get chopped by that pesky remote receiver PL-decode delay! Instead of "... to Net" the NCS will hear "... from Post A."

Educating the Customer and Taking the Initiative

Finally, remember to try and educate the public service official about what the benefits and limitations of our service are. Specifically, it is frequently the case that traffic will have to wait during a busy net. People used to instant gratification when a phone is dialed and answered are not used to this--until you remind them of the frustration of the occasional busy signal. Some officials will want to communicate simply because they are bored or are feeling left out.

Try to encourage prudent use of the limited resource or use of alternate resources such as cell phones or just plain walking 20 feet! Amateur radio is one of the tools available. It is rarely the only one.

May Board of Directors Meeting

by **Anthony Licata, N2NWZ**

In attendance were N2s NWZ, DB, TSE, SF, AMP, TFC, TJE, YGK, FMC, DV;, KB2NBN, WB2NHC, WB2QJA, and, KB2MGM.

Meeting was called to order at 8:15 p.m. on May 27 by President Joe Brown.

Bob, N2DVQ, reported there was noise on one of the receivers, probably at the main site, from another transmitter. This usually goes away in about a week when the problem is fixed. He also reported that the new voter should be installed sometime soon. He needs to know of any large dead spots in coverage. He mentioned that the remote package will be used at the June 8th event. He further announced that the repeater controller has been

fixed.

Bill, N2QZB, has a Field Day press kit all set for distribution to the local media.

Dwight, N2FMC, reports receiving a donation of radio equipment to sell at a hamfest and needs to get a certificate of donation letter.

Tom, WB2NHC, proposed getting a 10x20 enclosure at a cost of \$180 to replace the tarps used in the eating area at Field Day. He also said that he can get an aluminum 40 foot tower to replace one of the old towers at a cost of \$800 plus \$200 shipping. A motion by Sandy, N2SF, seconded by Ron, N2TJE, was made to purchase the tower. Motion passed.

Dwight, N2FMC, suggested that as a 10th Year Public Service Award an official certificate (perhaps from the County) be presented. Also suggested things like a WECA logo watch and WECA certificates for 6-10 years of public service. Options will be looked into further.

To help celebrate WECA's 25th anniversary it was proposed that there be a cake at Field Day presented at 7:06 p.m. on Saturday. Motion by Dwight, N2FMC, seconded by Sandy, N2SF. Motion Passed.

Meeting Adjourned at 9:36 p.m.

Thank You

by Darlana Mayo, N2DB, Education Director

You have asked me to serve your educational needs and for this privilege I am grateful.

What ideas do you have? What areas as a ham would you like additional training in? Should WECA concentrate on educating the public in a particular market, i.e., youths, SWL'ers, technically inclined individuals, etc.?

My job is twofold. First, to draw out those of you experts to assist other hams who could benefit from your knowledge and secondly, to educate the public and various agencies to the service and hobby of amateur radio.

I did not win on my own; neither can I fulfill your needs by myself. Together with your help many projects will come to pass.

Some of you would have liked to have seen more of my qualifications and less of my personal history in my candidate's statement and for this I apologize.

Along with the other board members, I am always open to suggestions. Please feel free to call, fax, or email any recommendations.

Latest Call Signs

As of June 23, 1997, the following call signs have been allocated in the "2" call district:

Group A (Extra)	AB2DX
Group B (Advanced)	KG2LX
Group C	(none left)
Group D (General/Tech/Novice)	KC2CBB



Southern District Net

Darlana Mayo, N2DB, net manager of the Southern District Net, reports May SDN stats as follows:

Sessions	31 (29 reports)
Total checkins	425
Traffic brought to the net	127
Traffic passed on the net	113
Percent passed	89
Total time	589 minutes

For Sale

Icom IC-736 HF+6 meters with straight key, bencher paddles, and MFJ 949 antenna tuner-no Mic.--\$1250

Kenwood TH-28A 2 meter handheld with extra longlife battery--\$200

Cushcraft AR-270B dual band antenna--\$50

Kenwood TM-733A dual band mobile with duplexer--\$350-\$400

If interested, please call Chris Scola at 914-243-4889 or 914-245-1412

July 1997

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
29	30	1	2	3	4 ● NM Independence Day	5
6 ○ YARC VE Session	7	8	9	10	11	12 ● FQ IARU HF World Champ. CO WW VHF.
13 IARU HF World Champ. CO WW VHF.	14 (Now You're Operating)	15	16	17	18	19 N. Amer. QSO (RTTY)
20 ○ FM N. Amer. QSO (RTTY)	21	22	23	24	25	26 ● LQ (NY Philharmonic at W.C.C.) IOTA
27 IOTA	28 (WECA Board Meeting)	29	30	31	1	2