



THE WECAGRAM

Newsletter of the
Westchester Emergency Communications Association, Inc.

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Serving the Public through Amateur Radio and serving Amateurs since 1972

Volume 24, Issue 2

February 2000



Next Meeting

The next WECA meeting will be Monday February 14th at the Westchester County Center in White Plains, beginning at 7:30pm with a social half hour followed by the main presentation at 8pm.

The main presentation will be by Eugene Skopal , AE2F. He will be talking about Antenna Modeling.

From The President...

Greetings,

Now that we are into the month of February, like George Washington, I can not tell a lie. I did NOT chop down the cherry tree. I ran one end of my dipole into the top of the cherry tree, so I could work more DX.

Great news. We have no Y2K projects scheduled in the future. Liam Murphy and the Westchester County Office of Emergency Management thank all who participated in that massive effort.

There are a great deal of changes accruing in the amateur community at this time. The most important one for most of us, is the revision of the amateur license structure. There will only be three classes of "HAM" license's

after April 15th. Technician, General, and Extra. The current Novice and Advanced license will remain in effect, but there will be no new ones issued. Two classes of license will require a five (5) word per minute code examination.

Our Education director, Rich W2RJA, and his staff are working on putting together some courses for those looking to upgrade.

Sandy N2SF, will continue conducting the VE exams with the help of our club VE's. The next session is scheduled for Thursday, February 10th at the County Office building , EOC, in White Plains, NY

Nick K2ZVI is looking for ideas for another WECA club project. If you have any suggestions please contact Nick.

Tom, WB2NHC, is also looking for members to help both Jean and himself with WECAFEST. They would like other members to learn how the hamfest is organized so they can relinquish the reins sometime in the future, sit back in their rocking chairs , and watch the WECAFEST grow. We will all be needed on March 19th. to assure another success.

I look forward to seeing all our members and new prospective hams on February 14th, 7:30 PM at the County Center, White Plains, NY for the regular WECA meeting

Stan WA2NRV

Listen on 147.060 at 7pm Monday-Wednesday-Friday for Amateur Radio related news and Announcements

Write for the WECAGRAM. Send your submissions to wecagram@weca.org

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THE WECAGRAM

Editor: Will Austen N2UXJ

The WECAGRAM is the official newsletter of the Westchester Emergency Communications Association, Inc., a Special Service Club affiliated with the ARRL, ARES, the Westchester County Office of Disaster and Emergency Services, RACES, an affiliate of the American Red Cross, and a member of the Westchester County Emergency Medical Services Council.

Any questions, comments, items for Swap and Shop, commercial advertising, suggestions, contributions and letters for inclusion should be sent to the editor at:

58 Ellis Place
Ossining, NY 10562

Submissions via E-Mail to wecagram@weca.org would greatly be appreciated. Submissions may be edited for style and space.

The DEADLINE for INCLUSION in the newsletter is the 2nd Monday of the preceding month.

All submissions are expressly the opinion of the authors, and do not necessarily reflect the official position of WECA, its officers, directors, or the editor.

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The WECAGRAM would like to exchange newsletters with other clubs. If you are interested in receiving the WECAGRAM through such an exchange, please contact the editor.

WECA Officers and Directors

OFFICERS;

President: Stanley Rothman, WA2NRV
Executive VP: David J. Weiss, N2OGK
VP/General Counsel: Michael J. Weitzner, N2EJI
Treasurer: Andrew R. Farber, N4OOX
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Digital Modes: Richard L. Benda, WB2QJA
Director At Large: Fran Larsorsa, N2OLU
Education: Rich Anderson, WA2RJA
Engineering: Robert A. Wilson, N2DVQ
Membership: Peter A. Johnson, N2TFC
Newsletter Editor: Will Austen, N2UXJ
Public Relations: Shirley Dahlgren, N2SKP
Public Service: Robert Kantor, N2TSE
Repeater Operations: Dwight P. Smith, N2FMC
Social: Thomas R. Raffaelli, WB2NHC

WECA gladly accepts donations of equipment new or used (such as from estates). Please write, call, or E-mail WECA at the addresses etc.. on the cover

WB2ZII/R

WECA operates the following repeaters:

147.060(+)-MHz	PL 2A(114.8 Hz)
224.400(-)-MHz	PL 2A(114.8 Hz)
447.475(-)-MHz	PL 2A(114.8 Hz)

WECAGRAM Online:

<http://www.weca.org/wecagram>

From The EDITOR...

This issue is primarily devoted to License Restructuring. I am sure there are lots of questions and some confusion regarding these changes. The simplest way to view this is the Technician will be no-code (except Tech +). General and Extra will be code with HF privileges. Any existing license will continue to have existing privileges, and will be able to renew indefinitely. Hopefully the information and articles contained in here will clarify these new rules. For further information on these changes, listen to the weekly bulletins at 7pm on 147.060 on Monday, Wednesday, and Friday, or check out the ARRL's web site at <http://www.arrl.org>.

If you would like to express your own opinion or have any other articles, please submit them by e-mail to this editor at wecagram@weca.org

With that its on to the news...
Will N2UXJ/ Newsletter Editor

Public Service By Robert Kantor, N2TSE

Mark your calendar for these up-coming events. And if you want to volunteer, you can sign up at the membership meeting or you can contact me on the radio during SDN, or by phone at home. Or you can E-mail me!!!

E-Mail: n2tse@weca.org
Call: 914 949-4231

Upcoming events include:

4/9/00 - Multiple Sclerosis Society Walkathon at Rye Playland
4/30/00 - March of Dimes Walkathon
6/3/00 - American Diabetes Association "Tour de Cure"

Laminate It! By Robert Kantor, N2TSE

I am once again reviving the lamination project. If you would like to have a copy of your wallet size FCC license, or anything else that measures a maximum of 2.25" by 3.375" laminated for 50 cents per card, please bring it to me at a membership meeting and I'll return the laminated card to you at the next meeting. I will also be doing it at WECAFEST. Or you can send it to me with a self-addressed, stamped envelope and I'll do it by mail. (Mail it to me at 3 Bryant Crescent, Apt 21, White Plains, NY 10605.) I also have wallet size WECA Repeater Emergency Access Code cards available.

Advance payment and exact change please.

January Membership Meeting

On 1/10/00 at 8:02 p.m. the meeting was called to order by Stan Rothman, WA2NRV. Stan wished the membership a "Happy New Year" and thanked those who had participated in the Y2K operation.

Participation Awards - Charlie Salvilla, KB2LLV: KB2LLV presented the awards per the attached worksheet. Those receiving awards were: 4th Year - KB2JKC, 8th Year - N2TJE, 9th Year - N2NQY

Guest Speakers -

George Pataki, WB2AQC: George gave an entertaining presentation of "Ham Radio Humor", and brought along scrapbooks containing articles he has written about his dxpeditions.

Rich Anderson, W2RJA - Education Director: Rich lectured on the recent FCC "Report & Order" which will restructure amateur licensing.

Mike Arrow, K2NR: Mike offered additional information on the license restructuring and then discussed the FCC's recently implemented "Universal Licensing System" (ULS).

Announcements -

Stan Rothman, WA2NRV: Repeated his earlier request for a volunteer to coordinate club projects.

Ray Albanese, N2FXU: Ray reviewed the Y2K operation. While being interviewed by local television reporters during New Year's Eve, Ray took the opportunity to highlight the contributions of the RACES volunteers. Ray finished by again thanking those who volunteered their services during New Year's Eve.

Director's Reports -

Digital Modes/Awards - Rich Benda, WB2QJA: Reported that the digital systems at both sites are ok and successfully rolled over to the new year. As Chairman of the Awards Committee, Rich made the following presentations:

Certificates of Appreciation:

Liam Murphy (Westchester County ODES) - for Public Service and support of WECA. (Accepted by N2FXU on behalf of Mr. Murphy)

Robert Kantor, N2TSE - for his efforts related to the Y2K operation.

Dwight Smith, N2FMC - for his assistance related to WECA's digital systems.

Bill Knott Memorial Award: (named for WECA's founder)

Joe Brown, KB2NBN - for service as WECA Secretary, President & President Emeritus.

Sandy Fried, N2SF - for service as WECA Board member & County Radio Officer.

Social/WECAFEST - Tom Raffaelli, WB2NHC: Reported that WECAFEST 2000 will be held on 3/19 at Yonkers Raceway. Forum topics have not yet been scheduled. Anyone with ideas for forums should contact Tom, who will put them in touch with the forum manager.

Vice-President - Dave Weiss, N2OGK: Could use suggestions for guest speakers.

Other Business -

After a question was asked regarding future classes, an informal survey was held to get a rough idea as to what level licensing class should be held next.

50/50 - Winner: AB2BX, Door Prizes - Winners: AB2FM, N2KIM, and N3EMF.

Meeting adjourned at 9:48 p.m.

Submitted by Kenneth F. Gross, N2OBY.

December Board Meeting

On 12/27/99 at 8:02 p.m. the meeting was called to order by Stan Rothman, WA2NRV.

Membership - Peter Johnson, N2TFC: Activity has been slow this month. A "Thank You" letter for those who contributed to the 1999 Blythedale fund has been prepared using information from N4OOX, and signed by K2RRR.

There is continuing difficulty in contacting the badge vendor via email. Therefore, some members are still awaiting their badges. However, Peter believes the situation will be resolved soon.

Engineering - Bob Wilson, N2DVQ: Reported that the purchase of the replacement UHF repeater will probably not take place before the end of the year. Work on the controller cabinet is progressing nicely. N2FMC, N2GKM & N2DHH have installed back-up batteries at the NW and NE sites. These should provide approximately three days worth of power for the receivers. The new controller will allow for up to seven remote receivers.

ARES/RACES - Joe Bruno, WB2VVS: Reported that he will be coordinating RACES Y2K operations. Joe will be contacting those operators who have volunteered for Y2K duty during the week to verify status, location and contact information.

New Business

WA2NRV reported that NE2Q has been in contact with the NYS police regarding the use of amateurs to look for and report on vehicle license plates which are "wanted" by that agency. The consensus of the board was that this was not something WECA is interested in participating in, resulting in the following motion. Motion to empower WA2NRV to decline NE2Q's request. Carried unanimously.

WA2NRV announced that a volunteer is needed to assist Rich, W2RJA (Education Director). Sandy, N2SF, volunteered.

N2OGK also reported that he had secured the Internet domain of "hudsonconvention.org" for use in publicizing the upcoming event.

Y2K - Liam Murphy (Director, Westchester County ODES) expressed his gratitude for those who have volunteered to organize and participate in the operation. He stressed the importance of arriving at the assigned locations and "being functional". He added that even if no Y2K problems occur, it will be a busy evening.

Meeting adjourned at 21:47 p.m.

Submitted by Kenneth F. Gross, N2OBY 12/27/99

Amateur Restructuring is Here: Three License Classes, One Code Speed

Questions and Answers about Restructuring

NEWINGTON, CT, Dec 30, 1999--Amateur Radio will get a new look in the new millennium. The FCC today issued its long-awaited Report and Order in the 1998 Biennial Regulatory Review of Part 97--more commonly known as "license restructuring." The bottom line is that starting April 15, 2000, there will be three license classes--Technician, General, and Amateur Extra--and a single Morse code requirement--5 WPM.

"We believe that an individual's ability to demonstrate increased Morse code proficiency is not necessarily indicative of that individual's ability to contribute to the advancement of the radio art," the FCC said.

Besides drastically streamlining the Amateur Radio licensing process, the FCC said its actions would "eliminate unnecessary requirements that may discourage or limit individuals from becoming trained operators, technicians, and electronic experts."

Although no new Novice and Advanced licenses will be issued after the effective date of the Report and Order, the FCC does not plan to automatically upgrade any existing license privileges. The ARRL had proposed a one-time across-the-board upgrading of current Novice and Tech Plus licensees to General class, but the FCC declined to adopt the idea. This means that current licensees will retain their current operating privileges, including access to various modes and subbands, and will be able to renew their licenses indefinitely.

Starting April 15, 2000, individuals who qualified for the Technician class license prior to March 21, 1987, will be able to upgrade to General class by providing documentary proof to a Volunteer Examiner Coordinator, paying an application fee, and completing FCC Form 605.

The FCC's decision not to automatically upgrade Novice and Tech Plus licensees means the current Novice/Tech Plus HF subbands will remain and not be "refarmed" to higher class licensees as the ARRL had proposed. The FCC said it did not refarm these subbands because there was "no consensus" within the amateur community as to what to do with them.

As it had proposed earlier, the FCC decided to lump Technician and Tech Plus licensees into a single licensee database, all designated as "Technician" licensees. Those who can document having passed the 5 WPM Morse code examination will continue to have the current Tech Plus HF

privileges. "If documentation is needed to verify whether a licensee has passed a telegraphy examination, we may request the documentation from that licensee or the VECs," the FCC said.

In addition to reducing the number of license classes from six to three and eliminating the 20 and 13 WPM code tests, the FCC also will reduce the number of written examination elements from five to three, authorize Advanced Class hams to prepare and administer General class examinations, and eliminate Radio Amateur Civil Emergency Service (RACES) station licenses. RACES will remain, however. "After review of the record, we conclude that we should eliminate RACES station licenses because RACES station licenses are unnecessary for amateur stations and amateur service licenses to provide emergency communications," the FCC said.

Under the new licensing scheme, there will be four examination elements. Element 1 will be the 5 WPM Morse code exam. Element 2 will be a 35-question written test to obtain a Technician license; Element 3 will be a 35-question written test to obtain a General license, and Element 4 will be a 50-question written test for the Amateur Extra license. The FCC has left it in the hands of the National Conference of VECs Question Pool Committee to determine the specific mix and makeup of written examination questions. Current Amateur Radio study materials remain valid at least until the new rules become effective in April.

The FCC's new licensing plan means someone will be able to become a ham by passing a single 35-question written examination. The plan also simplifies and shortens the upgrade path from the ground floor through Amateur Extra--especially since amateurs will only have to pass one Morse code test.

Elimination of the 13 and 20 WPM Morse requirements also means an end to physician certification waivers for applicants claiming an inability to pass the Morse code examination due to physical handicap.

The effective date provides a window of upgrade opportunity for current Tech Plus and Advanced class licensees. Between now and April 15, current Advanced licensees who pass or hold a Certificate of Successful Completion of Examination (CSCE) for the existing Element 4B, will meet the new requirements for Amateur Extra when the new rules become effective. Likewise, current Tech Plus licensees who pass or hold a CSCE for Element 3B will be poised to upgrade to General class when the new rules go into effect April 15. Any CSCEs must be dated on or after April 17, 1999, to be valid April 15, 2000.

The FCC disagreed with the League's suggestion that it undertake a restructuring of operating privileges along with

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licensing restructuring. "We believe that in light of ongoing discussions concerning implementation of new and more modern communications technologies within the amateur service community, we should accord the amateur service community an opportunity to complete such discussions and possibly reach a consensus regarding implementation of new technologies before we undertake a comprehensive restructuring of the amateur service operating privileges and frequencies," the FCC said in its Report and Order.

In its amendments to Part 97, the FCC's Report and Order refers to a "Club Station Call Sign Administrator," something that does not exist under the current rules and which was not explained in the R&O itself. An FCC spokesperson said the Commission plans to issue a Public Notice soon to explain the program and to solicit qualified entities to serve as call sign administrators for club station applications.

A copy of the entire Report and Order (FCC 99-412) is available on the ARRL Web site in Adobe PDF format or from the FCC Web site in plain text.

See also: Questions and Answers about Restructuring

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New licensing requirements: Quagmire or golden opportunity for upgraders?

By Mike Arrow, K2NR

As every active ham must know by now, ham license requirements will be changing significantly effective April 15. The only classes of new or upgraded license that will be issued on or after that date will be Technician, General and Amateur Extra. All licensees, including present Novice and Advanced Class licensees, will be able to retain their present privileges and renew their licenses indefinitely. Present Technician Plus licensees will become Technicians upon renewal but will still maintain all present privileges including HF code.

Nevertheless, many hams will find that the new requirements make the possibility of upgrading their licenses much greater. For example, many of you have heard that the only code test to be offered after April 15 will be at 5 wpm, and that those who already have credit for this test will not require another code test after that date (even if upgrading to Extra is desired). Amateurs wishing to upgrade should consider their options NOW in order to

map out the best upgrading strategy for them. This report can help those amateurs to learn about how to meet the new requirements, and whether it makes sense to take exam elements NOW for qualification AFTER April 15.

After April 15, passing of the following new examination elements will be required to obtain an amateur radio license of the class noted:

TECHNICIAN: Element 2
GENERAL: Elements 1, 2 and 3
AMATEUR EXTRA: Elements 1, 2, 3 and 4

Credit will be given for those elements covered by an existing license. For example, present Generals will get credit for Elements 1, 2 and 3, and would only have to take the Element 4 written test (no additional code test) to qualify for Extra Class. However, under certain circumstances, present licensees can take a simpler written exam before April 15, obtain a Certificate of Successful Completion of Examination (CSCE) for that exam, and obtain an upgrade by presenting the current license, the CSCE and the exam fee at a Volunteer Examination (VE) session after April 15. This method is especially useful for Tech Plus licensees and those Technicians who passed the 5 wpm code test to qualify for General.

Since it is impossible to list every possible combination of requirements for individual situations in a short report, would-be upgraders should plan on how best to satisfy each required element for the class of license they will seek. The following indicates the methods available to satisfy element requirements at an examination session on or after April 15. Any of the methods shown under a given element will satisfy the requirement for that element. Note that if an exam element is taken before April 15, and the CSCE for that element is presented after April 15 at another examination session to qualify for upgrade under the revised licensing rules, the exam fee will be payable at BOTH exam sessions.

Σ Element 1: Morse code test at 5 words per minute

Σ Passing an Element 1 code test at the examination session where the application is presented, or
Σ Holding a current Novice, Technician Plus, General, Advanced or Amateur Extra Class license, or
Σ Holding a Technician Class license granted before February 14, 1991, or
Σ Holding an FCC-issued commercial radiotelegraph operator license or permit whose expiration date is not earlier than 5 years before the date of the examination session or
Σ Holding a CSCE indicating passing a code test for Element 1 taken on or after April 15, 2000 but not earlier than 365 days before the date of the examination session, or

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Σ Holding a CSCE indicating passing a code test for Element 1(A), 1(B) or 1(C) taken before April 15, 2000 but not earlier than 365 days before the date of the examination session.

Σ Element 2: Technician Class written test

Passing an Element 2 written test at the examination session where the application is presented, or

Σ Holding a current Technician, Technician Plus, General, Advanced or Amateur Extra Class license, or

Σ Holding a CSCE indicating passing a written test for Element 2 taken on or after April 15, 2000 but not earlier than 365 days before the date of the examination session.

Σ Element 3: General Class written test

Σ Passing an Element 3 written test at the examination session where the application is presented, or

Σ Holding a current General, Advanced or Amateur Extra Class license, or

Σ Holding a current Technician or Technician Plus Class license plus a CSCE indicating passing a written test for Element 3(B) taken before April 15, 2000 but not earlier than 365 days before the date of the examination session, or

Σ Holding a Technician Class license granted before March 21, 1987, or

Σ Holding a CSCE indicating passing a written test for Element 3 taken before March 21, 1987, or

Σ Holding a CSCE indicating passing a written test for Element 3 taken on or after April 15, 2000 but not earlier than 365 days before the date of the examination session.

Σ Element 4: Amateur Extra Class written test

Σ Passing an Element 4 written test at the examination session where the application is presented, or

Σ Holding a current Amateur Extra Class license, or

Σ Holding a current Advanced Class license plus a CSCE indicating passing a written test for Element 4(B) taken before April 15, 2000 but not earlier than 365 days before the date of the examination session, or

Σ Holding a current General Class license plus (a) CSCE('s) indicating passing written tests for both Elements 4(A) and 4(B) taken before April 15, 2000 but not earlier than 365 days before the date of the examination session, or

Σ Holding a CSCE indicating passing a written test for Element 4 taken on or after April 15, 2000 but not earlier than 365 days before the date of the examination session.

Evidence of holding a "current" or "expired" license includes presentation of any of the following documents to the supervising VE's. Original documents are required unless otherwise noted. In addition, a photocopy of the document may be required to be submitted to the

Volunteer Examiner Coordinator along with the application at the discretion of the VE's.

Σ the FCC license document (FCC Form 660 or equivalent).

Σ an FCC verification letter certifying compliance with the applicable requirement.

Σ a document from FCC's contractor, ITS Inc., certifying compliance with the applicable requirement.

Σ for a Technician Class license granted before March 21, 1987, an original or photocopy of the license with an indicated effective date before that date.

Σ for a Technician Class license granted before March 21, 1987, a Callbook listing dated before March 21, 1987.

Σ for Element 3, a CSCE showing successful completion of that element and dated before March 21, 1987.

Further details about acceptable documentation can be found on the ARRL Internet web site, <<http://www.arrl.org>>.

For the purposes of this paper, "current" means that the license expiration date shown on the document is not earlier than two years before the date of the examination session, and "expired" means that the license expiration date shown on the document was more than two years prior to the date of the examination session.

73 and good luck upgrading!

Snow Reporting

By Darlana Mayo, N2DB

Now that the 50 degrees winter days have passed and some of us have to shovel the snow, their may be times when a Skywarn net will be activated.

For those who are not familiar with Skywarn, Skywarn is a plan sponsored by the National Weather Service, (NWS), using trained amateur radio and other weather observers for reporting hazardous weather.

Skywarn spotters have been taught to recognize features associated with rapidly developing, mature, and dissipating thunderstorms and weather systems which cause hazardous weather. Skywarn spotters assist NWS staff in issuing warnings to save lives and minimize damage to property.

With the above in mind, the NWS would greatly appreciate your snowfall accumulation reports during a snow storm.

Your accurate weather reports may be included in the NWS public information statements which are disseminat-

ed throughout the media.

Please use the following criteria for sending snowfall amounts: When snow accumulates 1 inch, 3 inches, 5 inches, 1 inch per hour, and storm total snowfall, (to the nearest tenth of an inch).

Here are some basic rules for measuring snow: In order to get a good measurement:

1. Find an area that is relatively flat and protected to some extent from the wind. Make sure that it is an untouched area from walkways, heat sources, and trees.
2. Take 10 measurements in different spots to get a representative sample. These need to be to the nearest tenth of an inch (i.e., 5.6 inches).
3. Write the actual numbers down and when completed, add them up and divide by the number of measurements taken.
4. Observations of snowfall rates, winds, visibilities, sleet, freezing rain or any other pertinent information related to the winter storm.

Enter the amount of snow measured in inches (to the nearest tenth of an inch):

Please give your callsign, date/s of the event, location (town, county, state) of the measurements, and all the individual amounts you measured during the storm. These should equal the total snowfall. (Example $2.3 + 3.4 + 2.3 = 8.0$).

When reporting the above remember to send "high priority" (life threatening) criteria items to either my station, my assistant Sandro N2TWN, or call the NWS directly.

Thank you ahead of time for your cooperation as I will be depending on your reliable reports on behalf of the NWS which provided much of the above information.

Darlana N2DB
Westchester County Skywarn Coordinator
(914)699-4191 - (914)537-6076 Beeper

Silent Key...

WECA member Justin F. Stenerson, Sr. W2XF of White Plains, died on Thursday, January 6, 2000, after a short illness. He was married to Anne Jennings of the Bronx in 1943. They were married for 56 years.

Justin started as an SWL listener along with building radios in the early 1920s. He was a member of the ARRL

and QCWA Radio Leagues along with several other local clubs.

Mr. Stenerson was a graduate of Fordham Preparatory School and The RCA Institute. He retired from CBS Records in 1981 as a studio engineer.

In 1997 at the age of 80, he received his Amateur Extra Class License. His former callsigns were KF2AC and WB2DJA.

He is survived by his wife, four children; Vincent, Justin, Jr., Eileen, and Robert, along with five grand children and 2 great grand children.

Submitted by,
Robert Stenerson N2KE

LAPTOPS THAT RUN ON ALCOHOL From the Hudson Loop #161

Reuter News reports this week that researchers have developed a powerful, miniature fuel cell that may one day replace traditional batteries in laptop computers, cellular phones, and other devices. Motorola, the world's No 2 wireless phone maker, said Wednesday scientists at its labs and at Los Alamos National Laboratory used liquid methanol to power the cells, which last up to 10 times longer than existing rechargeable batteries. Liquid methanol, a wood alcohol, is also used in windshield wiper fluid.

The fuel cells, which are still about three to five years away from the store shelves, could power a wireless phone for more than a month and keep a laptop running for 20 hours, according to Motorola's director of material, device, and energy research. They would use small plastic canisters similar to those used for fountain pen ink. Consumers could easily check the methanol level to find out when to replace the fuel cell, which will likely cost as much as or less than traditional rechargeables.

Fuel cells convert chemical energy directly to electrical energy. The basic concept of a fuel cell originated in 1839, but practical applications came from NASA in the early days of space flight, Motorola said. These new miniature cells, each measuring about one inch square and less than one-tenth of an inch in thickness, use a reservoir of inexpensive methanol that, when combined with the oxygen in the air, produces electricity.

Reuter News via This Week in Amateur Radio

(Editor Note:
Imagine a HT with one of those installed!!)

WECA upcoming events...

Monday 2/14/00. WECA Membership Meeting

Monday 2/28/00. WECA Board Meeting

New Members

By Peter Johnson, N2TFC

WECA would like to welcome these new members:

AA2TS	Bill	Pleasantville, NY	11/99
ASSOC7	Bob	Mamaroneck, NY	11/99
KC2CHX	David	Yorktown, NY	11/99
KC2DWP	Joe	Crompond, NY	01/00
N2CVZ	Gary	Mt. Kisco, NY	01/00
N2SLA	Chad	Larchmont, NY	01/00



Southern District Net

Sandro Sicilia N2TWN, Net manager of the Southern District Net, reports for December. 1999

Stations checked in	394
Traffic Brought	93
Traffic Passed	85
Total Net Time in Minutes in 31 session	488

Write for the WECAGRAM

Send your story by the deadline, which is on Monday, one week before the Board Meeting each month, except July and August

BY E-Mail to wecagram@weca.org

Please include your name and call sign for publication. Please put the body of your story in the E-mail to prevent cross platform, and other layout problems



Westchester Emergency Communications Association, Inc.

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Place
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**RUSH - DATED MATERIAL
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