



the RARa RAG

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ROCHESTER AMATEUR RADIO ASSOCIATION, INC.

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The Radio Club of Rochester (forerunner of RaRa) had this fine exhibit at Convention Hall 60 years ago. Most prominent (at right) is W2GB's 1000 spark transmitter, then considered a relic since spark had been banned four years earlier. Modern equipment of the mid-20's can be seen at left: Under the club call 8PZ is a 80-160 meter transmitter using a pair of UV-202's. Next is a very modern transmitter operating on the low wavelength of 40 meters with a 2-tube regenerative directly under the lampshade. Note the Exide wet "B" batteries on floor in rear.

RaRa MEETS APRIL 4th

ANNUAL OLD TIMER'S NIGHT FEATURES TUBE HISTORY

by Bruce Kelley, W2ICE, Club Historian

Our annual Old Timers' Night will feature an illustrated history of the vacuum tube. Moving at a fast pace, the narrator will start with early receivers and transmitters and continue to the decline of the vacuum tube in the 60's. The material will cover most tubes and their application: 1905 Fleming valves to Nuvistors and even a transmitting tube that draws 1000 amperes at 1.0 volts on the filament!

A special feature will be recognition of RaRa's pioneer member, George Batterson, W2GB. George's interest began when he read about the sinking of the *Titanic* on April 15, 1912. The dramatic rescue sparked by the sinking ship's wireless SOS fired his imagination. By the end of the year, he and his brother had a working ama-

teur receiver and transmitter.

Except for war years, Batterson has been operating continuously for the past 74 years. He joined the Rochester Radio Club in 1920 and was one of the first to sign up with RaRa when it was formed in 1931. GB is a CW man and can leisurely copy at 55 wpm but admits his old sending hand has slowed down to only 35 or 40 wpm.

The meeting will start promptly at 8 p.m. at the 40/8 Club, 933 University Avenue.

After the program will be the award of the *chair* and, of course, the refreshments provided by our own George Muller, WA2IEO.

Also at this meeting there will be a report from the Nominating Committee and nominations for office will be opened from the floor.

the **RaRa Rag**

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ROCHESTER AMATEUR RADIO ASSOCIATION, INC.

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“*!&! QRM”

by Dwight Hill, K2KWK, Contributing Editor

Last year, at my QTH, you had to be a “garbage pile kid” to get W1AW. Pulling in W1AW needed a log cabin and a 4wd tractor! And when you did get it you needed tin ears to keep it. You can only stand about five minutes worth if its there at all. Had they lost their power amplifiers, or antennas? And, what the thunder is this big fat constant carrier sitting on the W1AW frequency?

For several previous years I had suffered some neighbors TV set with a very vigorous crystal, as the 3579 hash would wander up, down and around the desired signal on 3580 LSB. Finally the old set died its deserved death, only to leave me this nice clean carrier. I tried lots of tricks. Tricks like changing to the other side band and throwing in the 400hz filter. I tried a dual diversity mix of separate antennas, and separate receivers on separate bands. But in order to get completely accurate copy of ARRL Bulletins, (K2KWK is a OBS station), I resorted to several differently timed sessions each week. It would often take three sessions to get the complete bulletins. The QRM was so tough it was tearing up my ears, hair and sanity. Copying such junk would make my eyes water like when slicing onions. I often asked my good neighbor, (Computer Bulletin Board Station WA2ZPE and WB2DSR), for fills. I got so desperate I was looking into computers and printers myself, which is pretty far out for one who truly enjoys the “old code”. Do you get the picture of this carrier being as big and steady as the proverbial brick church!

One day my family and I were to go away for several days. The preparations for this include grounding the antenna and control lines, securing windows, doors, appliances, etc.

“Oh yes”, I said, “lets unplug our remote phone so no one can charge our number for calls”.

“Hey! Son of a gun, did this thing stop when I unplugged the phone? Was I dreaming?

Plug in phone, get big fat carrier. Unplug phone, no big fat carrier. “Yippeee!

I haven’t left the house and my mind feels like its had a long vacation. Looking further into this, I find my phone base unit transmits below the 160 meter band and lays a nice harmonic on 3579. In one innocent maneuver I as master of that blankety blank QRM.

“wot a relief”

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GUEST EDITORIAL: THOSE DX PILE-UPS

by Vic Clark, W4KFC

Working DX and gathering new countries have always been an important part of the fabric of amateur radio. The excitement of making contact with a distant land appeals to many amateurs, and is customarily followed by the effort to obtain a QSL card confirming the QSO.

The opinion survey conducted by ARRL's Long Range Planning Committee showed that a whopping 34 per cent of today's amateurs regularly take part in some form of DX activity. The QSL bureaus are handling unprecedented quantities of cards to and from amateurs overseas, and applications of DXCC and related awards are at an all-time high.

This is great, and as it should be... but, there's a problem.

Everyone who seeks to make contact with new countries has joined in a pile-up calling the rare ones at one time or another. Depending upon the operating skill and technique of the quarry, the chase sometimes degenerates into a free-swinging imbroglia, with stations frantically calling at all times all over the band. Resulting QRM to the sought-after DX, or to other activities on the band, raises the annoyance level to a point where some of the calling operators begin hurling invective at one another.

We've all heard it, and a few of us haven't been able to resist the impulse to join in.

So what are we accomplishing?

Presumably the idea in working new countries is to pursue a sort of continuing personal effort to improve our score in the number of countries we have worked—or possibly band-countries, if we're after the five-band DXCC award. A more subtle motive, perhaps, is to impress our fellow hams and our friends with either our operating prowess or the effectiveness of our station—perhaps both.

But who is going to be impressed with accomplishments in an activity that produces such boorish behavior?

At the World Administrative Radio Conference in Geneva, the point was made on several occasions that the amateur radio service is one of the best disciplined of all the radio services. This claim was never disputed and it helped to see us through some very troubled waters.

However... were the WARC delegates to listen to some of the remarks passed in a contemporary DX pile-up, our favorable image would be forever shattered. Can it really be *that* important to get

APRIL RAG CALENDAR

- 4 - RaRa meeting, 8 p.m.,
40/8 Club, 933 University Avenue
Annual Old Timer's Night
- 9 - April Rag Deadline
- 9 - RaRa Board of Directors meeting,
7:30 p.m., Annual Dinner Meeting
- 10 - Rochester Packet Radio Club meeting
7:30 p.m., County Social Services
Building, 111 Westfall Road
- 11 - Rochester VHF Group meeting, 8
p.m. County Social Service Building,
111 Westfall Road
- 15 - RDXA meeting, 8:15 p.m.,
Colonial Hotel, 1127 Empire Blvd
- 18 - RRRRA meeting, 8 p.m.
Pittsford Town Hall
- 19 - RaRa License Exams, 9 a.m.
County Social Services Building,
111 Westfall Road

25,26,27- Dayton Hamvention, Dayton, Ohio

another card?

Who, one may ask, are these clods who behave so deplorably as to curse and call names because of their annoyance with the operating practices of their fellow amateurs? Well, they don't sign their calls, so personal pride isn't one of their character traits.

Competition inspires us to achieve and is supposed to be fun. But, when it reaches the point of bringing out the beast in us, it is obviously time to ponder the circumstances that give rise to such behavior. Seeking a solution to this problem, some folks now are asking "*Should DX awards be discontinued?*" while others have suggested "*Let's cut off DXCC at the 100-country mark*".

Somehow that seems like throwing out the baby with the bath water. But if DXing is earning a bad name because of the antics of a few undisciplined and over-zealous competitors, it will serve to scare off respectable operators. When this happens, DXing becomes progressively the province of the irresponsible loud mouths.

Fortunately, today they are few in number. What should the rest of us do? Do we turn away in disgust and move to more tranquil pursuits, or stay active and outnumber dropouts from polite society? It would be sad to see DX award chasing sink to the point where sponsors are forced to take stiff measures.

What do you suggest?

Tnx AUTOCALL

ROCHESTER HAMFEST NOTES

This year's Hamfest is shaping up to be one of the best ever! Just a few tidbits to whet your appetite:

- Most of the forums will be on the main floor of the Dome in meeting rooms underneath the bleachers.
- The floor layout in the Dome has been redesigned for easier access.
- Minett Hall will contain an indoor flea market.
- The Saturday night banquet will feature the *President* (of Kantronics) as guest speaker.

Special advance tickets will be available from Ticket Chairman Bill Shaw, N2EKR, at the April and May RaRa meetings. You should have received your Hamfest brochure in the mail, and last minute information will appear in next month's *Rag*.

CORDLESS TELEPHONES

(*Fact Sheet*)

1) A cordless telephone is actually a two-way radio consisting of a base station and a battery powered handset (walkie-talkie). As such, your conversation can be overheard on other phones in the neighborhood that operate on the same channel (frequency). Your conversations can also be heard over a general coverage radio receiver in the immediate vicinity, and some AM broadcast receivers may even tune high enough to receive your conversation.

2) While some models, if the hand-held unit is not returned to the base set while it is not in use, then it is possible for someone with a cordless telephone, who is talking or riding by, to use your dial tone to make long distance calls that will be charged against your telephone. Some cordless phone models offer tone coding that helps to guard against this problem.

3) Cordless phones are susceptible to interference from electrical devices such as power lines, computers, hair dryers, electric razors, and especially fluorescent lights, etc. This interference is recognizable by an ordinary electrical noise or a distinct hum. Interference can also occur from nearby commercial broadcast stations and amateur and citizens band radio operators. The FCC does not offer protection from interference for cordless telephone!

4) A cordless telephone may also become a source of interference to television and AM broadcast reception. The FCC holds the owner of the phone responsible for correcting the problem when complaints are received from neighbors about such interference.

TIME BEACONS

by Kurt Torgerson, KL7BGE,
Arctic Amateur Radio Club

Interested in knowing the correct time? Most of us are familiar with the standard time and frequency stations WWV and JJY, and can listen to one or the other during any part of the day or night (except, perhaps, following a major solar eruption as happened last week).

But, how about using time beacons as propagation beacons of sorts? Besides stations WWV and JJY, there are many other time stations which give a rough indication of propagation paths to different areas of the world. You should be aware that some of these stations run rather high power while others have apparently sporadic operating schedules. Look for signals on the following frequencies:

WWV	Ft. Collins, Colorado - 2.5, 5, 10, 15, 20 MHz.
WWVH	Maui, Hawaii - 2.5, 5, 10, 15 MHz.
JJY	Tokyo, Japan - 2.5, 5, 8, 10, 15 MHz.
CHU	Ottawa, Canada - 3.33, 7.335, 14.670 MHz.
VNG	Lundhurst, Australia - 5.425, 7.515, 12.005 MHz.
OLB5	Czechoslovakia - 3.170 MHz.
VVC	Calcutta, India - 12.744 MHz.
DAO	German Hydro Institute, Germany - 2.775, 12.763 MHz.

Tnx WESTLINK REPORT

5) For current models, the base unit of cordless telephones transmits on 1.7 MHz. The handset operates on 4.9 MHz. The propagation difference in these two frequencies sometimes disrupts telephone conversations.

6) Generally, as more range is desired, the base unit should be located as high as possible, such as the second floor of a two-story house. Conversely, if you are having an interference problem from other cordless phone users in your neighborhood and would be willing to sacrifice additional range for interference-free use, then your base unit should be located at the lowest point of your home, such as the basement.

NOTE: Docket 83-325, a proposal to authorize 10 new channels on 49 MHz (handset) and 46 MHz (base) was adopted on December 22, 1983 and released on January 10, 1984. The 1.7 MHz channel will no longer be manufactured after October 1, 1984. It is expected that those in use will last approximately five years or until they are interfered with by new broadcast stations.

Tnx FCC via THE MIKE & KEY

TWENTY CITATIONS ISSUED FLORIDA HAMS!

The story is just developing ...facts are still sketchy, but twenty Florida amateurs have been issued FCC Notices of Violations for infractions of “§ Part 97.110 reference §97.3[b]” which prohibits amateur radio station communications for business purposes. Another amateur said the violations were for § Part 97.112 which prohibits “communication for material compensation, direct or indirect, paid or unpaid.” It could be that different amateurs got cited for various – but somewhat similar – breaches of the amateur rules.

What is known, however, is that members of the eighty-meter Florida Trader's Net which meets every Sunday morning on 3985 kHz were cited by the Fort Lauderdale FCC monitoring station for using their amateur stations with a “*pecuniary or business interest.*”

One involved amateur who did not wish to be named said the general feeling seems to be that amateur gear “*swap nets*” – even though by individuals – may not be legal if a selling price is suggested. The amateurs cited apparently gave a price that they would sell their surplus gear for.

Another amateur said he thought that perhaps some of the ones served might have been commercial dealers but “*most were not. We really don't know. They very well could be. There are amateurs out there selling every week that the net is in operation ...*” We were told that one of the amateurs involved is an attorney who, acting as the spokesman, was getting in touch with his congressman.

A phone call to the Fort Lauderdale monitoring station did confirm the issuance of the citations. The engineer that I spoke to said it was a case of rule interpretation. “*We have gotten a lot of calls on this... Anything that I would say would further confuse the issue.*” He refused to make an official statement and referred us to the Engineer-in-Charge who we could not contact before our publishing deadline. “*Swap Nets*” on amateur radio are very common. You might want to refrain from talking “*price*” until the FCC makes a ruling on what is – and is not – legal.

Tnx W5YI REPORT

FOR SALE – Aluminum irrigation tubing, 6061-T6 or equiv., 3 pcs., 3-inch; 1 pc., 2-inch. All approximate 20 ft. long, \$10 each. One piece 2½-inch, 12 ft. long (2S-½H), \$5. Jerry, W2TOE, 293-1495.

CQP'S CORNER

by Howie Davies, N2CUN, RPD

Just a reminder that construction on Main Street East between Gibbs and State has started as of March 1st. The widening of sidewalks and the reduction of traffic lanes from 6 to 4 lanes is going to produce traffic problems during rush hour. The construction will take all summer so be prepared for delays in that area.

I would like to thank all of the Hams for their support after the loss of my wife, Nancy, last Fall. My daughter Maire and I are doing fine and the future is looking brighter. I have a new assignment with the Rochester Police Department working in the traffic enforcement unit, Radar car 443, so if you see me set-up somewhere in the city, stop and talk awhile. I will be glad to show you how the Radar unit works.

In the very near future I will be building a new home in Spencerport and I am planning to get married in July.

Again, thank you for all your support during tough times.

SPRING SPRINTS

The ARRL has announced the following dates for their annual Spring Sprints VHF Contests:

144 MHz	Monday, April 14th
220 MHz	Tuesday, April 22nd
432 MHz	Wednesday, April 30th
1296 MHz	Thursday, May 8th
50 MHz	Saturday, May 17th

The Sprints run from 7 p.m. to 11 p.m. local time. Dupe sheets are needed when you exceed 100 QSO's in any one contest (keep this in mind when you are on 1296!). QSO's = 1 point and multipliers are GRIDS. Signal report is optional. Standard ARRL VHF contest rules apply. Although each sprint is a separate contest and must be mailed separately, all entries (regardless of sprint) must be postmarked by June 20th.

PICNIC REMINDER

Mark you calendar now for the
Annual RaRa Picnic!

Date: June 7, 1986

Place: Powder Mills Park

Stay tuned for more details next month!

FAST & FURIOUS

Telecommunications News

from W5YI REPORT

“Never Say Die” Wayne Green advises that a brief ham industry meeting was held at the Miami Hamboree. Last year it was agreed that if industry could come up with \$10,000, the League would match it with another \$10,000 and a \$20,000 comic book would be produced touting amateur radio for beginners. *“The ante on this is still light.”* Wayne says he is going to get ham radio growing again, *“I don’t have a record of failure, only of success – and I don’t intend to break this record now,”* he writes in a letter sent out to potential ‘73 Magazine’ advertisers. Green said ad rate cutting is as destructive as discounting is for ham stores but he vowed to match any special ad rate in any amateur magazine. He also wants to call an industry meeting at the Dayton HamVention for 1 p.m. on Thursday.

Washington Watch... The QCWA sent in Reply Comments on **“Rules to Allow Auxiliary Operation on All Amateur Frequencies, Except 431-433 MHz.”** David Popkin, W2CC, sent in a Petition for Reconsideration on an **“Amendment of the Amateur Rules to Prohibit Disqualified Persons from Participating in Third Party Communications.”** Three Amateurs have submitted comments on **“Rules to Allow Novice Privileges in the 6 Meter Band.”**

Telephone Trivia. An up-to-date phone book is even harder to get in the Soviet Union than a telephone! There is only one directory for every six phones in Leningrad and the latest phone book published in Arkhangelsk (population 408,000) was published some seven years ago!

“Count yourself lucky” Department. The next application deadline for amateur examinations in Canada is March 19th for the April 16th test date. Only four amateur radio operator test sessions are held a year in Canada. The annual license fee is \$26 (\$20 if you already hold a ticket) *plus a testing fee* for each portion of the examination taken.

Apparently the Reagan administration’s *“Radio Marti”* is doing well. Marti is the AM broadcast band *“news”* service that is beamed to Cuba to break the Castro government’s monopoly of information. Marti’s air time has now been increased to 17½ hours per day. Cuban radio stations have adopted a livelier format to counteract Marti. Starting this month, relatives that have left the island can broadcast messages back to their relatives still in Cuba. U.S. broadcasters feared a massive *“radio war”* against the Voice of America

broadcasts, but so far the interference is minimal.

Did you know that Australia is planning a *law against RFI-prone* consumer electronic items? It will be a crime *“down under”* to supply or possess or equipment that does not meet minimum immunity standards.

Everyone in wondering just what the Commission will look like come this summer. FCC Chairman Mark Fowler’s term expires June 30 and no one seems to know if he will seek re-appointment. He isn’t saying. Rumors have it that if Fowler goes, Commissioners Dennis Patrick or Mimi Dawson could get it.

M/A-Com stands to make a bundle on their \$399 Videocipher II *consumer satellite descrambler* now that HBO has opted for their satellite signal encryption system. In an effort to stimulate the backyard dish business, many TVRO dealers are simply giving away the descrambler to sell a system. M/A-Com can’t make them fast enough and is licensing other firms to manufacture them on a royalty basis! M/A-Com banks \$325 million if just half the nation’s home satellite systems purchase a descrambler. Cinemax, Showtime, The Disney Channel, ESPN, The Movie Channel and all of the super channels (WOR/WGN/WTBS) will scramble *this year!*

The next phase has satellite delivered programming attempting to *market their service direct to home earth station owners*. All sorts of networks and plans are brewing. HBO and Cinemax are selling direct (\$12.95 a month each/\$19.95 for both) – Turner plans to grant distribution rights to cable affiliates. (Cost for CNN and Headline news will be \$25 a year to dish owners.) It will cost the backyarder a fortune to get what they used to receive at no cost! High power DBS, direct broadcast satellite to small home dishes, may yet catch on now that there is no advantage in paying big bucks for a big dish system.

Ex-ham radio maker, the **R. L. Drake Company**, has a new home satellite receiver with an automatic built-in antenna positioner. A push of a single button and the unit remembers up to nine satellites and transponders. A *“parental lock-out”* feature keeps the kiddies from viewing the late night moan and groaners.

Two congressmen (DeConcini, D-AZ, and English, D-OK) said that drug runners have compiled a list of radio frequencies used by President Reagan, the Secret Service, FBI and other federal, military, state and local law enforcement agencies and the list could undermine national security. The list of thousands of sensitive radio frequencies was found during a recent South Florida Drug raid.

FAST & FURIOUS

(Continued from page 6)

You have probably heard about **Ku-band** and **C-Band satellite programming** and didn't know the difference. The Ku-band is from 12-15 GHz, C-Band: 4-6 GHz. C-band is traditionally the preferred band because of its superior propagation characteristics. Ku-band is susceptible to weather induced outages.

Things not going well for **Osborne Computer**. They are liquidating for a second time. **Commodore also in trouble**, but they averted Chapter 11 by obtaining a one month extension of their debt payment. Their Amiga micro has not lived up to expectations and Atari (headed up by ex-Commodore president Jack Tramiel) is providing stiff competition.

The FCC, slated for a slight funding increase for fiscal 1987, *may never see it*. Reagan proposed adding \$1.9 million to FCC budget bringing it to \$96.4 million. Gramm-Rudman-Hollings will probably take it away!

Flock of Woodpeckers Coming? The U.S. Air Force had announced that it plans more over-the-horizon long-range radar installations to detect enemy aircraft and missiles approaching the U. S. from the south. The latest will be located at two sites in Minnesota or the Dakotas. O-T-H system in Maine nearing completion. Additional HF radar locations set for California, Oregon and Alaska.

Theft of Service is a big headache to cable companies. Michigan mail order firm, **C&D Electronics**, agreed in an FTC consent decree not to sell decoders, converters and descramblers allegedly used for unauthorized reception of cable programming. In California, the Los Angeles city attorney is planning an undercover "*sting*" operation to find and arrest dealers of illegal cable service. Leads are being provided by cable operators who will help pay for the campaign. They will seek jail terms for first offenses. Nationally, illegal hookups account for 12%. Los Angeles theft of service is conservatively fixed at 18% where cable company imposters peddle counterfeit boxes door-to-door.

Private citizens aren't the only ones illegally receiving pay video. Sports oriented bars and lounges with satellite dishes are tapping into pay sports satellite network feeds. Professional teams under local blackout restrictions find that their signals are plucked off of the satellite. Some bars even advertise their availability. The networks claim that satellite feeds are private transmissions. The bars say that they merely are receiving signals freely floating in the atmosphere.

FLASH —

On March 14th, the FCC granted a waiver of the amateur rules allowing the automatic unattended retransmission of third party traffic above 50 MHz.

UHF Experimenter's Forming Group

Word comes from Floyd Koontz, WA2WVL, that he is interested in getting together with other area amateurs to explore the spectrum encompassing the 902, 1296, 2304, and 3456 MHz bands. Although this is not intended to become a formal group, there appears to be quite a bit of interest in this spectrum in the Rochester area. This is the chance of a lifetime to those of us without much UHF/VHF construction knowledge, but with the desire to learn and experiment. If you are interested, call Floyd at this home number for more information. (716) 657-6426.

Tnx The VHF Journal

Rochester HAMFEST

MONROE COUNTY FAIRGROUNDS
May 16-17-18, 1986

FOR SALE: Self-supporting Wilson tower — minimum height 23', maximum height 61' with electric winch to raise and lower; rotating base with tilt-down feature — Alliance HD-73 heavy-duty rotator (entire tower rotates).

A weather-resistant fiberglass three-element Gem-Quad antenna for 10, 20 and 15 meters.

Complete instructions and engineering specifications for all of the above items.

Art Rissberger, KC2EN, 671-4289

The FCC has amended § Part 15 to allow operation of low power communication devices (LPCD's) in the 1.6 to 10 MHz band in response to a petition by the Knogo Corporation. The intended effect is to provide additional frequencies for LPCD's including wideband and/or swept frequency systems. New rules are effective March 3rd. The ARRL had recommended that the operation of LPCD's (such as door openers, intrusion detectors and anti-shoplifting equipment) be restricted to commercial applications since the potential for interference increases in residential areas due to proximity of sensitive amateur radio receivers. The FCC did not agree.

PACKET AND THE COMMODORE COMPUTER

by Frank Spitz, N2AMK

Most (if not all) of us bought our packet equipment while dreaming of all the neat documents and programs we could swap over the air. Public service considerations aside, this was probably one of the major justifications we gave ourselves and our xyl's for the unreasonable cash outlay necessary to get the equipment.

Upon getting the hardware home, we hooked it up, turned it on, gave the manual a cursory glance and dove in. The more cautious among us listened for a day or so first. Then, after chatting with our friends and making some new ones, we called someone and said, "*LET'S SEND SOME FILES!*"

At this point we suddenly were re-acquainted with some well known facts. (Loosely coupled to Murphy's laws.)

1. Commodore computers speak with an accent, (CBM, not ASCII).
2. Only something called "*sequential*" files can be transmitted successfully. (.pgm files look like they were passed through a blender).
3. When received, sequential files won't run unless first converted to a program file.

Fortunately, there are some things that we can do to relieve the pain associated with file transfers.

1. Always send files in transparent mode.
2. Always receive BASIC listings in transparent mode, or turn off all headers, ack's, etc.
3. Make sure that your terminal program does not convert or filter out any characters in the text. Some terminal programs such as VIP and VIDTEX give you a choice.

To convert a BASIC program from a "pgm" file to a "seq" file on commodore, just do the following:

1. Load - BUT DO NOT RUN - the BASIC program.
2. Type in the following line and hit return. OPEN8,8,8,"newfilename,S,W":CMDB: LIST
3. When the disk drive stops running, enter the following and hit return. CLOSE 8

You will now have a sequential listing of the BASIC program on the disk under the newfilename, ready to transmit over the air. Converting the file back after reception is not quite as easy.

CORPORATE MEETING NOTICE

Notice is hereby given that the Annual Corporation Meeting of the Rochester Amateur Radio Association, Inc. will be held Friday, May 2nd, 8 p.m. at the 40/8 Club, 933 University Avenue, Rochester, NY. Purpose of the meeting will be for the election of new officers and directors, setting the association's dues, and conducting any other business brought before the assembly.

Nominating Committee Appointed

The RaRa Nominating Committee has been appointed and will make its report at the April Meeting. Its members are Bill March, WA2CER (Chairman); Irv Goodman, AF2K; and Ed Gable, K2MP. At both the April and May meetings, nominations for office will be opened from the floor.

RaRa FAMILY CAMPOUT NEWS

Ed Kohl, WA2UBD, is trying to set up a RaRa Family Campout this year. Memorial Day and/or Fourth of July dates are being discussed. If you are interested, please call him at 223-2872.

WANTED: Someone who can help a local family keep in-touch with relatives in Brazil. Please call Marco Marino at 381-9630 or 385-4476.

FOR SALE; 100 feet of Belden vinyl-jacketed, 8-conductor rotor cable. Brand new, 30 cents per foot. Joe Mon, Sr., N2BHJ, 467-2557 (evenings).

MOVING SALE: 40-foot tower, 2 sections, tilt and crank-up; also CDE-45 rotor and 3-element Cushcraft beam (10-15-20 meters). Call Howie Davies, N2CUN, 288-3806 after 7 p.m.

FOR SALE - ICOM 720A w/power supply and desk mike. Good condition. Tony Cerasoli, WA2IJH, 227-2542.

W2YJ



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