

MARCH 1996



NEXT GENERAL MEETING WILL BE HELD
WEDNESDAY, MARCH 13, 1996

GROUNDWAVE



Club Call VE3RC

Repeater VE2CRA

VE3LX1

Official Bulletin of the Ottawa Amateur Radio Club, Inc.

The Ottawa Amateur Radio Club, Inc., Box 8873, Ottawa, Ont., K1G 3J2

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THE OTTAWA AMATEUR RADIO CLUB, INC. is an association of Radio Amateurs devoted to the promotion of interest in Amateur Radio communications in the National Capital Area; and to the advancement and achievement of club members.

REGULAR MEETINGS of the OARC, Inc., are held on the second Wednesday of each month (except July and August) in the Chaplain Room (2nd floor of the Old Teacher's College) of the RMCC HQ complex on Lisgar St., Ottawa, at 1915 hours. Further details about each meeting is elsewhere in this publication.

THE OARC EXECUTIVE normally meets on the second Wednesday of each month at 1930 hours. Contact the President to confirm the date of the next meeting.

PACKET RADIO MEETINGS will be held at 7:30 p.m. on the last Thursday of every 2nd month, starting September 1993, at the Museum of Science and Technology. This is an OARC technical meeting open to all who have an interest in packet radio.

DEADLINE FOR COPY is the second Wednesday of each month. Make yourself better known to fellow members and other amateurs, too, by giving us an article, technical or otherwise, relative to our hobby.

MATERIAL PUBLISHED herein does not necessarily represent the official OARC viewpoint. Items may be reprinted by Amateur Radio or other publications provided that proper credit is given to the author and to the OARC, Inc.

JUNIOR MEMBERSHIPS - To encourage young people to join the club and to participate in amateur radio, the club is opening a junior class of membership. Dues will be at a 50% discount but the junior member must pick up his/her copy of the Groundwave (preferably at the meeting).

RADIO AMATEUR CALL BOOKS are available at many local libraries. Ask at the information desk.

SAFETY BELTS AND AN ENGRAVING PENCIL are available for loan to club members. The engraving pencil (to mark valuables for identification in case of loss or theft) and the safety belts with pole straps are available to any members. For the belts, a refundable deposit

consisting of a cheque equal to the replacement value of the belts is required. Contact the President for the engraving pencil; and Paul, VE3ICV, at 820-6643 (West End) or Brian, VE3JKZ, at 523-1535 (East End) for the belts.

THE CAPITAL CITY NET meets every Monday at 2000 hours on the Club Repeater VE2CRA (146.34.94) to pass traffic and to make announcements of interest to amateurs in the National Capital Region.

PACKET RADIO VOICE NET meets following the Capital City Net on VE2CRA at 2040 hours. This is an informal net to answer questions about packet radio, pass along operating hints and provide information for future packet operators.

THE SWAP NET is a service provided and conducted by Ed Morgan, VE3GX. This feature appears on the Capital City Net, noted in the foregoing paragraph. To list items and make inquiries, call Ed Morgan at 733-1721.

POT-HOLE NET is a SSB/HF net sponsored by the Ottawa Valley Mobile Radio Club, and conducted every Sunday at 1000 hours on 3.760 Mhz. All amateurs are welcome to check in. The Swap-Net is a regular feature.

POT-LID CW NET is an informal slow-speed CW net sponsored and conducted by Ed, VE3GX, and meeting every Sunday, except during July and August, at 1100 hours on 3.620 Mhz, to promote interest in CW and CW procedures.

REPEATERS

VE2CRA	Voice	146.94/34
		443.300/448.300
VE3OCR	Packet	145.01(sx) Inter city links
VE3OCR	Packet	145.07(sx) Local Area net for QSO and Packet BBS
56 kbps	Packet	220.55/433.55
VE3DXD	Packet	145.11(SX)

For further information, please contact repeater chairman.

OARC WWW Home Page:

<http://www.worldlink.ca/oarc>

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MARCH MEETING: March 13, 1996, at 7:30 PM Keefer Room, RMOC 111 Lisgar St. Ottawa. Speaker: Clare Fowler, VE3NPC on Amateur Satellites.

MINUTES OF THE GENERAL MEETING OF THE
 OARC FEBRUARY 14, 1996

The meeting was called to order by the President, Richard VE3UNW at approximately 19:40.

One member asked for help with an old Zenith colour television which is now delivering a black and white picture only. It was suggested that it may be a colour sync tube and that he might wish to visit the downtown public library for a schematic. Richard noted that Mike VE3FFK has several interviews with potential employers in the near future and wished him well.

Richard announced that for the club to continue to operate in the manner we have in the past and to continue to support other events such as, CNIB Amateur Radio Program, Amsat and VE3CNE, it is imperative that the club have a flea-market this year. The club is looking for a number of volunteers to work as a

committee to run this year's fleamarket, to be held in the fall. Some individuals have indicated they are willing to help but more volunteers are needed. Please see any member of the executive. This year's ski marathon was a success. The weather was cooperative and the skiers were reported to be pleased with the event. Approximately 40 amateurs volunteered. Richard asked that anyone with suggestions for the OARC web page to contact him.

Jacques Choquette VE3TSC demonstrated the "Winkman Project", a forward and reverse reading power meter (0.1 watt to 10 watts) for 2 meters. Jacques and Will Warren VE3XMT, are coordinating a kit building party scheduled for the end of March or early April. The kit, designed by Will VE3XMT, will be available for \$25.00 including taxes on the day of the kit building party, after that date they will be available in kit form for \$57.45. Contact Jacques VE3TSC for more information.

Home brew night is scheduled for the April meeting. Richard announced to all the aspiring entrants that Clare VE3NPC had not yet started a project. The club budget was discussed at the last executive meeting and it is projected that the dues for next year will be between \$23 and \$25.

Paul VE3PC announced that the Red Cross is celebrating their 100th anniversary and he is looking for volunteers to operate VG3CRC, the Red Cross amateur station located at Alta Vista and Smyth, during March. Operators will be needed during the day and evenings throughout the entire month. Please contact Paul at 733-0148 to arrange for a time.

Richard introduced the evenings guest speaker, Jim Dean VE3IQ. Jim is the Vice-President Government Affairs for the Radio Amateurs of Canada. The theme or scope of Jim's talk was, delegation update, license fees, IARU and 440 MHz. As previously discussed at the last RAC

briefing Jim noted that the RAC had prepared a business plan for Industry Canada in March 1995, which they liked but asked that RAC go back and look at alternate means of funding. A single source license, where there would be a fixed license fee charged to RAC for all amateurs and then RAC would issue individual licenses, is being considered. Doug Leach VE3XK recently completed a study of amateur radio certification, examinations and delegated examiners from which many recommendations have come forward. Jim also noted that RAC with support from IC has begun a pilot project to allow for transition of some services from IC. A subsidiary corporation, Amateur Radio Administrative Services (ARAS) will be responsible for call sign assignment, certification and distribution on a trial basis. ARAS will have its own home page on the Internet. Jim informed the members that while IC had initially planned an increase in the license fees, there will be none this year. It is believed the increase was to be from \$24 to \$36. Jim noted that at the IARU conference held this past September in Niagara Falls Tom Atkins VE3CDM was elected as President, Region 2. Approximately 180 position papers were presented during the conference including, band plans, 40 meters, monitoring, EMC committee, WRC preparation, article 32, IARP etc. Also discussed was the continuation of the morse code requirement. The delegation from New Zealand tried to have regulation 27.35 of Article 32 of the Radio Regulations abolished, eliminating the requirement for morse code under 30 MHz. As this was not on the agenda no decision was reached but will be reviewed at the 1999 meeting. This will allow a three year period to allow for a firm position with respect to all aspects of licensing to be prepared which will ensure that we control our destiny. RAC has agreed to be responsible for issuing the newly approved International Amateur Radio Permit. The permit is now recognized by five countries in Region 2, Canada, Argentina, Peru, Uruguay and the U.S.

(more information on the above is available in the October and November 1995 and February 1996 issues of TCA). Richard thanked Jim on behalf of the club for taking time out of his busy schedule to brief the members.

Richard closed the meeting at 21:25 followed by a ragchew and coffee.

EDITOR'S THOUGHTS

Are you a member of RAC? No? Why not?

Actually, there is no excuse. Let's be quite blunt about it. RAC is quickly becoming the "single-point-of-contact" between the amateur radio operator in Canada, and the government. Very soon, virtually all of the "official" dealing you have with any radio authority will be with RAC only.

On the political level, RAC will essentially perform the functions of a political representation agency on behalf of hams. On behalf of YOU. Somewhat like a union, in a sense. RAC needs your support in order to develop sufficient leverage with legislators in the government. The good 'ol days when hams constituted an "old-boys-network" of insiders in the communications industry are gone. Please excuse the expression, but the old "ham radio mafia", which ran the old DoC and the communications industry is long gone. The only thing that counts today is political numbers and right now RAC only represents about 20% of the total ham population. It isn't enough. I suggest that you carefully read this month's Minutes, as there are several very important items regarding RAC and Canadian amateur issues.

It is crucial that we all support the only Canadian organisation that will represent our interests to the Canadian government and the ITU. A strong RAC

will have the clout to represent our interests coherently, and will be able to exert sufficient influence to defend our interests domestically and internationally. We cannot afford to dissipate our efforts and our influence; the future of ham radio in Canada requires the unified support of all radio amateurs. So, please, join RAC today. And besides, you'll receive a great Canadian ham magazine (TCA) in the bargain!

de VA3ES

3. Low Pass Filter, 50 ohm, MFJ-704. 1 KW. New, sealed in box. \$30.
 4. Low Pass Filter, 50 ohm, Drake Model TV-3300. 1 KW, mint. \$20.
 5. Eimac Tubes: 4-400Z and 4CX350A, several of each. New. each: \$60.
 6. Table-top Rack Cabinet, Hammond. 20"W x 13"D x 8"H. Very clean, original Hammond Grey paint. \$35.
- Contact: Brian Summers, 523-1535 for these items.

EVENTS OF INTEREST

GROUNDWAVE SWAP SHOP

This space is available free to members to post their "ads". If you'd like to post a sale or want item, you can reach me, Ed, VA3ES, at the club meetings, or you can call it in: Telephone: 738-8924, packet: VA3ES@VE3KYT.#EON.ON.CA.NA.

WANTED

Heathkit Amateur Radio items and older Heath catalogs (U.S. and Canadian), and manuals. Also looking for older Radio Shack catalogues, Lafayette and Allied catalogs. Contact: Carl Morin, VA3CGM, at 523-8792

WANTED

Vacuum tubes, type VT-70/6F7 and VT-93/6B8 and Neon voltage regulator type RCA 991, for my BC348 receiver. Contact Brian Summers, VE3JKZ 613-523-1535, concerning these items.

FOR SALE

1. TRIO/KENWOOD Oscilloscope, Model CO-1303G. Contains built-in two-tone generator, and RF monitor. Very Clean, complete with manual \$195.
2. Lafayette Receiver, Model KT-340. 550 KHz - 30 MHz. Bandsread on 80/40/20/15/10 meters. Built-in BFO, "Q-multiplier" and noise limiter. Very clean with manual. \$65.

OARC Flea-Market

It is imperative that the club have a flea-market this year. The club is looking for a number of volunteers to work as a committee to run this year's fleamarket, to be held in the fall. Some individuals have indicated they are willing to help but more volunteers are needed. Please see any member of the executive. A successful fleamarket would help offset the need for membership fee increases.

Kit Building Party Update

Originally planned for late January or early February, has been moved back to late March, or early April. This is due to Wil Warren VE3XMT's busy schedule as he organizes his move to the west coast.

This kit is a VHF SWR meter with LED bargraph display for forward/reflected power. This approx. 1"x2"x4" box will have a 10 LED display to indicate the power with 2 other LED's indicating the direction being measured (forward/reflected). A commercially made circuit card will hold 5 ICs plus other solid state components.

A version with audio output is available for the sight impaired and there will be someone to build it for you. Qualified technicians will be there to guide you in construction and do any final adjustments, if required.

Cost for the kit built on that day only is \$25. Kits ordered after will sell for about \$58. So join in on the fun NOW! Those wishing to participate please register with Jacques VE3TSC at 748-6597 evenings. See club minutes for more details.

Ottawa Vintage Radio Club

The Ottawa Vintage Radio Club was formed in the fall of 1992. The club is dedicated to the art and science of the preservation of Canadian radio history and the collection and restoration of vintage radios. The main focus of the club is vintage broadcast radios, but of course, vintage short wave and amateur equipment is also given good consideration. Currently, the club meets the second Wednesday of each month(!), but as this schedule conflicts with other radio club meetings in the Ottawa area (ours!), they are giving serious consideration to changing to another night of the week.

The club is going strong with over 75 members, many of whom are hams. They also publish a very good quarterly newsletter. (The O.A.R.C. is now exchanging newsletters with the Vintage club.) Anyone wishing more info on the Ottawa Vintage Radio Club should contact Tom Devey, at 828-5152 or e-mail: tom_devey@mitel.com .

THE CARE AND FEEDING OF YOUR PET HAM by Laura Sargent

From the Scuttlebutt, Waterway Radio Club, via Montreal A.R.C.
Marcogram, Jan. 1996

The pet Ham is the most intelligent of pets, often seeming almost human. But, he can also be one of the most difficult to keep. Only a person with a great deal of patience and understanding should attempt to keep a pet Ham.

The following is a short guide to some of the most important things you must know about keeping and caring for your pet Ham.

Living area: Your pet Ham should have a private area of his own, an entire room, if possible where he will not be disturbed. He will spend many happy hours alone there with his treasures (boxes, wires, bits of metal, glass, plastic, old rusty boat-anchors, etc.) that he will bring home regularly. He should be encouraged to confine his activities to this nest room in order to protect the rest of the house from his natural tendencies toward noise, clutter and making holes in the wall...

Expenses: Raising your pet Ham can turn into an expensive hobby, but, unlike most pets, the pet Ham can be trained to work outside the home for short periods and so bring in enough money to cover part or all of his expenses...

Feeding: The well behaved pet Ham will be able to eat with the family on occasion, but he usually feels more comfortable and secure if he can take many of his meals in the privacy of his nest room. It will be your responsibility to see that your pet Ham is kept well supplied with food and drinks during the long periods of time that he will spend alone in the nest room...

Housekeeping: Pet Hams can usually be trained to use the family bathroom facilities...

Obedience training: Most pet Hams can be trained to respond to a few simple commands. The easiest for him being sit and speak. Once your pet Ham has learned these commands, he will sometimes practice them on his own for hours at a time...

Health Care: The pet Ham is especially subject to minor irritations to the lower back and sore throat from

too much sitting and speaking. The special CW breed tends to have a tired wrist rather than sore throat and the Packet/RTTY versions may suffer from tired and hurting eyes depending on his age and monitor...

Travelling: Your pet Ham will gladly travel with you in the family car if he is allowed to bring some of the collection from his nest room. His favourite trips will be to places where he can associate with other pet Hams from other families...

Breeding: If you plan to breed your pet Ham, you should do so as early as possible after you get him. As the pet Ham matures he becomes more and more reluctant to engage in activities not connected with his nest room.

- The author is not a Ham herself, but keeps one at her home.....

RAC NEWS BULLETIN 02-96
15 FEBRUARY 1996

RAC Administrative Office, 614 Norris Court, Unit 6, Kingston, ON K7P 2R9
Editor: Jacques d'Avignon VE3VIA,
<monitor@limestone.kosone.com>
NEW E-MAIL ADDRESS FOR RAC HEADQUARTERS:
rachq@king.igs.net

NO LICENCE FEE INCREASE IN 1996!

RAC Vice-President for Government Affairs, Jim Dean, VE3IQ, has learned that radio amateurs will not face a licence fee increase when the 1996 licence renewals are mailed out. It had been rumoured that licence fees would be increased as a consequence of the realignment of the Radio Regulations with the new "RadioCommunication Act" of 1989. Industry Canada has revised the Radio Regulations and had expected to publish them in the Canada Gazette in December 1995.

Industry Canada has advised that the draft revision requires some changes, and that a Gazette notice for public comment is unlikely before June 1996. While it is expected that the realignment of the Radio Regulations will result in licence fee increases for all users of the radio spectrum, such increases will not take place in 1996 and will be instituted only after public consultation.

**ITU TO LOOK AT AMATEUR REGULATIONS
"MORSE CODE UNDER REVIEW!"**

A review of international radio regulations affecting the Amateur Radio Service and the Amateur Radio Satellite Service will take place at a World Radio Conference to be held in 1999 (WRC-99) by the world governing body, the International Telecommunications Union (ITU). This matter is so important to the future of Amateur Radio that the International Amateur Radio Union (IARU) is placing special emphasis on preparations for this event. There is a possibility that after WRC-99 it will not be necessary to have a working knowledge of Morse Code in order to operate below 30 MHz.

At WRC-95 one administration proposed that "RR2735", the regulation requiring a knowledge of Morse Code below 30 MHz, be suppressed - that is, abolished. Based upon policy which had been developed at recent IARU regional conferences, IARU prepared a paper opposing this proposal, and several administrations took the floor at WRC-95 in debate to oppose the abolishment of Morse Code below 30 MHz. The proposal was defeated. Following this, an agenda item for WRC-99 was established which allows regulation of the Amateur Service and Amateur Satellite Service to come under consideration. This means not just the Morse Code issue, but a complete review of regulations governing all aspects of these services will be undertaken. This presents a serious challenge to IARU--to take a leadership role in the management of potential

changes which impact on the future of Amateur Radio.

Meeting the challenge, IARU President Richard Baldwin, W1RU has established an ad-hoc committee named "The Future of the Amateur Service Committee" (FASC) to guide the formulation of an IARU position on the WRC-99 agenda. The committee will examine international regulations governing the Amateur Service and the Amateur Satellite Service (other than frequency allocations) with a view to formulating the changes, if any, that are desirable to properly reflect the objects, needs obligations, and privileges of the services for the next century, so that the services remain viable and valuable, meaningful and relevant to both the community and to those licensed in the services.

The committee is chaired by Michael Owen, VK3KI and the members are Larry E. Price, W4RA; David Sumner, K1ZZ; John Bazley, G3HCT; Tom Atkins, VE3CDM; Terry Carrell, ZL3QL; and Dick Baldwin, W4RU (ex-officio). The committee's terms of reference are broad and encompassing. A full range of actions will be pursued including consultations with member societies and the preparation of papers, reports, recommendations and proposals for the consideration of IARU's Administrative Council.

Radio Amateurs of Canada will undertake a special review of the issues, the concerns of its members and will make known its views and position to the Region 2 IARU Executive Committee at an appropriate time. RAC's Board of Directors will review this matter at its forthcoming annual meeting at Ottawa in April 1996.

COMMUNICATIONS AND ELECTRONICS MUSEUM: AN UPDATE

Work at the new Communications and Electronics Museum at CFB Kingston reached another milestone this month. With the exception of the AN/GRC-26 pod

(big thing that mounts on the back of a 2 1/2 ton truck!), all of the previous displays have been dismantled and moved from the old museum. This, plus all of the material from the research collection, is now in the new building. This is the first time that all of the museum's holdings have been in one place and it is truly a staggering amount of material.

The amateur radio station, VE3RCS, has moved to its final resting place in the centre of the display area. The 19 Set (High Power) has been assembled but not fired up (don't want to be in a hurry to put 2800 volts on 50 year old capacitors!). Antennae will be a problem until about April. After that the station will be on the air with VHF packet and the monthly "19 Set Net" on HF. That should leave enough time to sort out any snags before the official opening on 17 May 1996.

THE WAR MUSEUM NEEDS EQUIPMENT

"I recently donated some Canadian military radio gear to the National War Museum and would like to circulate a request to any amateurs who have war surplus gear of WW2 vintage, such as the Bendix TA-12 transmitter series, #19 sets and accessories and any of the Canadian military gear that may need a useful home to give me a call at 613-825-1634, E-mail me at ralph.cameron@takeone.com or via packet at VE3BBM@VE3FD.

"The War Museum has very little radio gear and in fact has more German equipment than Canadian. They would be most grateful for donations. It seems collector speculation is removing a lot of this stuff from the market and it is very scarce."

SUGGESTED TNC PARAMETERS

By: Burt Lang, VE2BMQ

There are a number of TNC operating parameters that affect the smooth operation of the various packet channels and networks in the region. It is very important that these parameters be set to values that are "friendly" i.e. values that minimize the collisions, maximize the data thru-put and equally share the channel with the other users that are on with you. It is also important that regardless of what you "think" the parameters should be set to or what you have read in the literature or your TNC manual, that all users on a channel adopt the same or compatible parameters. Most of the nodes in our local network are using NEDA recommended parameters. If in doubt about the suitable parameters for your favorite node, ask the Node-op for recommendations.

Beacon = 0 **TURN OFF YOUR BEACON!!!!**
Beacons have not been welcome on packet radio since about 1987 and serve no purpose except to add to the channel congestion.

Digipeat = OFF **TURN OFF YOUR DIGIPEAT FEATURE.** Modern packet does not generally use digipeaters, many nodes will not accept digipeated connects and leaving your digipeat on prevents you from using the preferred "Persistence" method of retry timing. Unless someone asks you to let them digipeat through your station because they have NO OTHER WAY to get out, LEAVE DIGIPEAT OFF.

DWAIT = 0 DWAIT only applies if DIGIPEAT is on. Forget it.

FRACK = 6-9 (seconds) Less if you are alone on the channel, more if it is crowded.

MAXframe = 1 A low value helps to share the channel and give everyone a opportunity to transmit within a reasonable time.

Paclen = 128 is reasonable. If you are alone on the channel higher is ok but NEVER more than 236.

PErsist = 64. 40 is better if the channel is usually crowded.

PPersist = ON This turns on the "Persistence" method of retry timing which is the preferred method in modern packet. For Persistence to work, DIGIPEAT must be OFF.

RETry = 10 If it takes more than 10 retries to get a packet through, then you probably have a problem with your set-up or someone else is hogging the channel. Tell them to get FRIENDLY.

SLottime = 20 (in 10ms units) Anything less on a user channel will make you distinctly "UNfriendly". Beware of TNC defaults, they are often totally unrealistic.

TXDelay = 5 - 30 (in 10ms units). This depends on who you are talking to. For optimum value, start at 5 and increase it in small steps until you can connect and exchange packets. Then add 3 as a margin.

Radio Transmitter Deviation = 3.5 KHz Peak deviation MAXIMUM. For 1200 bps, set high tone deviation to 3-3.5 KHz peak as measured on a scope type deviation monitor. The low tone should be 1.8-2.2 KHz peak. If not, you may have a pre-emphasis problem. For other data rates, set peak deviation to 3 KHz. If you do not have the proper deviation meter, find someone who does.

NOTE: Some manufacturers have different names for the above mentioned parameters. See further notes on the other side of this sheet

Further Notes Re: TNC Parameters

1/ There are two different methods of "Persistence" retry timing, p-Persistence and T-Persistence (for TAPR Persistence). The parameters used with each are distinctly different and must not be confused. p-Persistence uses PERSISTANCE and SLOTTIME. The equivalent parameters for T-Persistence are SLOTS and DEADTIME. Use the following formula to convert PERSISTANCE to SLOTS:

SLOTS = 256/PERSISTANCE Example:
PERSISTANCE=64 >> 256/64 = 4 SLOTS

DEADTIME is functionally identical to SLOTTIME with the same time units.

2/ Be sensitive to the Radio operating environment. We amateurs in Amateur Packet RADIO tend to forget the role radio plays in our hobby. Some of the most serious problems we have today in amateur packet radio are related to the radios we use. VHF/UHF voice synthesized radios are decidedly flawed when it comes to data service. Many of these flaws will affect not only your own operation but that of others trying to share the network. For example:

a. Synthesized radios that delay for 1/10th of a second before transmitting (they have to lock-up first) give others the impression that the channel is clear during that time.

b. Synthesized radios that do not delay before transmitting before locking up and "sweep" across the band hitting all the channels for at least 1 bit's worth of time.

c. Connections made to radio receivers after the squelch circuit (isn't that the way everyone does it????) that takes 1/4 second before the squelch opens and a signal is recognized.

Other related factors could be:

a. Using a distant Node or BBS with a signal strength less than 1 uv. The resulting errors cause multiple retries and collisions. Packet needs received signals preferably 2 uv (S9 on a typical VHF/UHF rig) or higher for best results. SUPPORT your network and use a local node if possible.

b. Using KISS mode on a congested channel. Regular KISS mode has serious limitations (flaws) that do not react well to congested conditions.

c. Some versions of "Firmware" in TNCs have bugs that will affect both you and others operating on the channel. As an example, a number of manufacturers in the 1989-92 period shipped units with defective KISS mode firmware that caused the radios to transmit regardless whether the channel was in use or not. Be aware of the fact that probably all software have bugs of some sort and some of them will affect your operation.

3/ Be aware that the conditions under which networks operate vary greatly with region, regulations and (most importantly) the people that set them up and manage them. Amateur packet networking is still an evolving field. The parameters that might be appropriate in France or Great Britain would be totally useless (or worse - detrimental in Arizona, California or St-Louis de Ha Ha. Respect the people that have installed your local network. They know how it is configured and what parameters are appropriate.

4/ Get involved with networking organizations such as NEDA (North East Digital Assoc) and learn what makes a network tick.

Additional user parameters:

Response time: = 0

Ackprior = on

Digipeat = off

DWAIT = 0

Fullduplex = off

PID (if available) = on *this ignores node broadcasts and node to node frames

From M.A.R.C. Marcogram,
October, 1995

AND FOR THAT MATTER...DID YOU EVER WONDER?

Why do you need a driver's license to buy liquor, when you can't drink and drive?
Why isn't "phonetic" spelled the way it sounds?

Why are there interstate highways in Hawaii?

Why are cigarettes sold in gas stations when smoking is prohibited there?

How does the guy who drives the snowplow get to work in the morning?

If a 7-11 is open 24 hours a day, 365 days a year, why are there locks on the doors?

If nothing ever sticks to Teflon, how do they make Teflon stick to the pan?

If your vehicle goes at the speed of light, what happens when you turn on the headlights?

Why do they put Braille dots on the keypad of the drive-up ATM?

Why do we park on driveways and drive on parkways?

You know that indestructible black box they use in airplanes? Why can't they make the entire plane out of the same substance?

de The Ground Wave published by the Saint Paul Radio Club Inc. from the Quarter Wave published by the Twin City FM Club, Minneapolis

NOTABLE QUOTES

An invasion of armies can be resisted, but not an idea whose time has come!

Victor Hugo

Most folks are about as happy as they make up their minds to be.

Abraham Lincoln

The greater part of our happiness or misery depends on our dispositions and not on our circumstances.

Martha Washington

de The Ground Wave, published by the Saint Paul Radio Club Inc.