

NOVEMBER 1991



NEXT MEETING WILL BE HELD
WEDNESDAY, NOVEMBER 6, 1991

GROUNDWAVE



Club Call VE3RC

Repeater VE2CRA

VE3RC

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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Past-President	Dave Goodwin, VE2ZP	684-1432	
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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 first Wednesday of each month (except July and August) in the Champlain Room (2nd floor of the Old Teacher's College) of the RMOC HQ complex on Lisgar St., Ottawa, at 1930 hours. A bulletin board is available for posting notices of interest to other members about 1915 hours. Further details about each meeting is elsewhere in this publication.

PACKET RADIO MEETINGS will be held at 7:30 p.m. on Oct. 3, Nov. 28, 1991, Jan. 30, March 26, May 28, 1992, at the Group Lobby Room, Museum of Science and Technology. This is an OARC technical meeting open to all who have an interest in packet radio.

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.

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, 2-METER RIG AND AN ENGRAVING PENCIL are available for loan to club members. The 2-meter rig may be borrowed by members who are hospitalized. 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 2-meter rig or 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		223.34/224.94	
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	
VE3XDX	DX Info	1 4 6 . 2 5 / 1 4 6 . 8 5 ;	
	packet	145.11 (SX)	

For further information, please contact repeater chairman.

MINUTES OF THE OARC GENERAL MEETING
OF OCTOBER 2, 1991

The October meeting of the Ottawa Amateur Radio Club was called to order at 7:37 PM EDT by the president Peter Jago, VE3PWJ.

The first order of business was to again reiterate the fact that the Vice-President's chair is still vacant. Once again, no one present volunteered for the position.

Visitors to this meeting included: Ken VE3MVV, Anne VE3TSB, Kent VE2LJ, Bob, and VK1JL.

VE3PWJ reported that 23 tables have been reserved for vendors at the OARC Fleamarket Sunday, October 6.

The first guest speaker for the evening was Kent Chown, VE2LJ, who spoke about operating in Zone 2.

Dan VE3EBI read the CARF News Bulletin.

Paul VE3JLP commented on DX news.

After the coffee break, Harrie VE3HYS showed the group what lightning did to an insulator and a coil at the CFRA transmitter site. He also displayed his new Kenwood TM-941A triband (2m, 0.7m, 0.23m) transceiver. Finally, Harrie announced that VE3MPC repeater is capable of linking into the Toronto FM Communication Society (TFMCS) Link Network via the new repeater at Foymount, ON. Currently, the link cannot be activated from the Link side, but a fully functional system will be implemented in the short future.

The meeting was adjourned at 9:25 PM EDT.

DARF

The Club is making a donation of \$100 to the Defence of Amateur Radio Fund.

Another expensive lawsuit against an amateur acting legally and within his rights has struck in our area. Ed Puccini, VE3EFP, was sued by a neighbour for erecting a tower. Although he won in court, his neighbour is appealing. As in the Jack Ravenscroft case, this is expected to cost Ed some tens of thousands of dollars. For details see TCA, August 1991, p. 21, and September 1991, p. 4. See also items related to DARF elsewhere in the Groundwave under "In Case You Missed It".

HELP WANTED

Two people are needed to serve as the coffee committee to ensure that coffee is made for each meeting. The job doesn't get much recognition but you can probably swing the occasional free cup out of it.

Much thanks to Bill Dormer, VE3KEB, John Hay, VE3HPW, and Doug Frame, VE3JDF, for their work in providing coffee for several years.

NOVEMBER MEETING

Harrie Jones, VE3HYS
will talk about VE2CRA,
other repeaters
and linking

LETTER

October 2, 1991

To: Mr. Peter Jago
President
Ottawa Amateur Radio Club Inc.

Dear Peter:

It was a great surprise to receive a telephone call from Clare Fowler, VE3NPC, last spring requesting that I serve on the executive of the OARC. I was somewhat hesitant to respond favourably to Clare because I was not a member of the OARC and I had no familiarity with the Club's activities. Additionally, I spend a significant amount of my amateur radio time with another organization, Western New York - Southern Ontario Repeater Council, in which I serve as Frequency Coordinator. These days, I can assure you, the frequency coordinator's position is virtually a full time job!

My lack of familiarity with the OARC is certainly a hindrance. However, I am not unfamiliar with amateur radio clubs and their politics. I have been very active in the Hamilton Amateur Radio Club over the past 15 years. This club's membership peaked at slightly more than 300 sometime around 1980. Today, the membership is about 150, with about half the members holding membership in excess of 10 years. While a member of the HARC I served as Editor, Membership Director, Vice-President, and President. During my stay on the Board of Directors I was also Chair of the Repeater Committee, a committee generally of one, but sometimes of two or three!

To say that I was disappointed at the last Executive meeting would be an understatement. I know very well that an organization which is run by an executive committee which also serves as most working group's major participants

is inefficient and ill-fated. This hierarchy is present in organizations in which the membership demands services, but refuses to provide anything but fiscal support for these services. The end result in this system is always the same: The executive committee members eventually become so tired of doing everything that they disappear into the woodwork of the club, or worse, they discontinue their membership.

Mr. President, I will not follow the precedent which you set at the September 11th Executive meeting. With respect to the Fleamarket, expecting the Executive members to undertake functions which should have been appropriately delegated much earlier in the year is outrageous. Perhaps those that volunteered are willing, but I believe that this methodology will not change the conclusion of the Fleamarket. I do not possess the time to carry out any endeavour which is poorly managed for the benefit of the more than one hundred club members which expect to be serviced by the Executive Committee beyond its constitutional requirements. I think that you as President of this organization must act to correct this flawed support structure. The role of a club executive is not to serve the membership to the point that the executive members must do ALL of the work. The club executive exists to guide the club in its numerous activities; whereas, the club membership exists to carry out these activities. If the club membership is simply freeloading, waiting to be serviced, then the leaders of the club, I being one, should seriously consider abolishing the club.

As a new member, completely unaware of past successes and failures of this club, it would not be right for me to motion that this club be abolished. I would suggest that serious thought be given to what this organization once was, and what it has become today.

Historically the basis for the existence of an amateur radio club was to pool resources. In the early days of Amateur Radio, no one had the ability to go out and buy a brand new, top-of-the-line transceiver. But a group could get together and then afford the dream machine.

Today, almost everyone in the club owns their own station. That's why most would question the need for a club station. Then if a club does not exist to pool resources, the reason for the club's existence must be re-examined. If in fact there are activities which are fully serviced by the Club Executive because of lack of membership support then continued support of these activities must be scrutinized. If there is no consensus after polling each member, then there is really no need for the activity to continue. Similarly, if there is no consensus as to the purpose of the Club then the Club should be discontinued. Along these same lines, if the Club is partaking in an activity which does not support the constitutionalized purpose of the Club, then action must be taken to amend the Constitution, or discontinue support for the activity.

I was further surprised to hear that there is some interest in linking the Club's 2m and/or 70cm repeater with one of the networks in Ontario, but that the Repeater Committee consisted of only one person. The talk of enhancing features on the Club's repeater sounds great. I'm all for it. But what about the maintenance requirements of the existing equipment. I am not too impressed by the performance of the current system. Performing the maintenance tasks should be routine. However, how can anyone expect one person to carry out regular maintenance? Corporations pay people to carry out this type of work on a daily basis. How can the OARC expect one person to volunteer their free time to keep the current system functional, and

then expect that same person to carry out the desired upgrades?

Peter, for your sake, the Executive's sake, and for the betterment of this organization, please take steps to establish a solid support structure. In respect of rejuvenating the support structure I think you should know that my vision of a club today is not for pooling resources, but rather for pooling knowledge. Today's club is or should be a centre for information exchange. Activities within the club should reflect this role. Additionally, I would strongly urge that any current project or planned project that does not have complete human resource support to carry it to completion without significant effort on the part of the Executive be suspended.

Regrettably, I have discovered that I am not able to coordinate my activities to create the necessary time to properly fulfil my duties as Secretary; however, if you choose to pursue restructuring I will assist by further enlightening you as to my experience with an amateur radio organization in which the majority of the members were waiting to be serviced. As I cannot regiment my free time I believe that I could better serve this organization by serving on a committee in which work can be accomplished more-or-else (sic) at ones own leisure. At the last meeting of the Executive Committee I discovered that the Repeater Committee is a committee in need of support. I believe that it would be possible to utilize my random free time assisting on the projects under this committee. I will be contacting Harrie Jones to discuss the possibilities.

Finally, as I have held concurrent positions within an organization while serving a second organization I know that it is not possible to perform effectively or efficiently "wearing multiple hats." I am currently deeply

involved with the Western New York - Southern Ontario Repeater Council and I am devoted to enhancing the activities of this organization. I therefore respectfully submit (sic) my resignation as Secretary of the Ottawa Amateur Radio Club as I cannot properly fulfil the duties and obligations of this position to the level which is expected by the membership of this Club.

busy schedule to make a major contribution to what I believe will be the Club's revitalization.

de Peter Jago, VE3PWJ
President, OARC

73,

Michael Spenuk
Secretary, OARC

COMMENTS ON OUR 2M REPEATER AND VOICE LINKING

WITHER OARC?

Mike Spenuk's letter succinctly articulates the thoughts that many of us have had in recent times. What is happening to the Ottawa Amateur Radio Club? Too few members are willing to lend a hand in getting things done, consequently, we are in a decline.

VE2CRA is located at Camp Fortune using a 4 pole antenna at 127 feet above ground. We share this antenna with the Weather Radio transmitter and CFRA's 2-way communication system. Also located on top of the hill are all the local FM and TV broadcasting transmitters, several paging transmitters and some commercial repeaters. This makes for a very unfriendly environment to place a receiver in and expect it to operate with the performance that we expect from our HT's and mobile equipment. Handhelds have become for many amateurs the only 2m rig they own, as such with their inefficient antennas getting a signal to Camp Fortune that can compete with all the intermod up there is quite a feat. Therefore, a remote receiver was installed at Walkley and Conroy to cover the city better. It is currently just a crystal mobile rig and so it too suffers some intermod. A commercial rig is being modified to replace it. The received audio is linked to Camp Fortune via 440 Mhz Mocom 35's. There is a circuit board at Camp Fortune that looks at the S/N ratio of the audio from both receivers and decides which audio signal will be used. However every time that a component in the system is changed the circuit has to be recalibrated or else the voter will favour one receiver. Recently one of the Monday night nets showed how so many checkins are now using HTs because the UHF tx died and so there was no remote receiver and the net had to move to VE3TEL.

We had a lengthy discussion at our last Executive meeting as to the reasons as to why this should be happening but came to no clear conclusions.

Because we are convinced that most OARC members do not want to see the Club slide gently into oblivion, we decided to call for a study into what members really want; bearing in mind you can't get anything out if no one puts anything in.

Mike Spenuk has agreed to head up a working party independent of the Executive (names will be given shortly) and I urge all members to make their views and wants known to Mike's team.

Through the Groundwave, I want to thank Mike Spenuk for giving us "shock treatment". We needed it. I am pleased that he will be taking time out of his

As those of you who tune around the 2m band probably know, VE3MPO is now linked to the VE3RPT link system. This system goes down to the Toronto area and north to the North Bay area. There are certain timers that are required to be part of the link system and the Toronto FM Society sells a PCB to do all this for \$400. If you are interested in putting VE2CRA on the link system this might be a fast way to accomplish the job as the PCB would only have to be packaged. We could also build our own if someone or group is willing to step forward and volunteer to design and build it. The question is "Do you want to be part of the linking system?" We of the executive await a response from you by the members to this question, and if it is yes, then the question of buy or build will have to be answered.

73
de Harrie, VE3HYS

HELP WANTED

The Club is in need of a Vice-President and Secretary. Anyone interested in these positions, please contact Peter Jago, VE3PWJ, at 836-1013.

THANKS

Thanks to Bill Manson, VE3YK, for a cash donation to the Club. He sold his excess junk (oops - I mean supplies) at the flea market and donated the proceeds.

PARKING AT OUR MEETINGS

After 7:00 p.m., parking is at a flat fee of \$3.00 under the Regional Headquarters Building. Enter off Elgin Street. This is handy on a rainy night.

SUMMARIES FROM THE SPECTRUM REPORT

1. For those who have dual-band HTs headed south for a winter vacation I found some communications that I thought were radio amateurs out of band above the 70cm band in Nassau. It turned out that they were the local police department and they make extensive use of Q codes. The two frequencies that I found them on are 464.725 MHz and 465.25 MHz. I didn't hear any activity in either the 2m or 70cm amateur bands.

2. Are we going to lose the 220 MHz band? For \$95.00 US you can get a guide on how to go about setting up a business communications system in the 220 Mhz to 222 MHz band segment and according to 220 MHz NARROWBAND MARKET STUDY, the 220 MHz narrowband radio service will grow to more than US\$800 million over the next 5 years.

3. In the US the FCC and the NTIA (National Telecommunications Information Administration) recommend proposals to the State Department and the State Department is going to WARC 92. One of the big items on the US agenda appears to be putting a telephone in everyone's pocket. This would be accomplished by use of low-earth-orbit (LEO) satellites with proposed frequencies at 137-138, 148-150.05, 399.9-400.05, 400.15-401 MHz. There are several big names in the communications industry who are proposing these satellite services and depending on which system or systems get approval there will be anywhere from 2 to 77 satellites launched by any one company.

Thanks to Harrie, VE3HYS, for these summaries from the Spectrum Report.

IN CASE YOU MISSED IT

Call for nominations for Regional Directors: CARF Pacific, Ontario, Quebec and Atlantic Regions each will be electing a Director to commence a term of office at the AGM 1992. (Item 1, CARF News Bulletin 13-91.)

VE3OSC - 13 September 1991 to 5 January 1992 - the Ontario Science Centre will be hosting an exhibition from the Soviet Union called SIBERIA: NORTHERN DISCOVERY AND SURVIVAL. VE3OSC will be trying to contact Northern Siberia, Northern Canada, floating ice stations and other Arctic regions during this exhibition period. The station will operate daily Monday to Friday 100-1500 hrs and on Saturday and Sunday 1100-1700 hrs. Volunteer licensed Amateur operators are needed to help run the station. If you can help, please contact: Diane Young at 416-429-4100, ext. 533, or write to her at: Ontario Science Centre, 770 Don Mills Road, Don Mills, ON, M3C 1T3. (Item 2, CARF News Bulletin 13-91.)

VG3W - Saturday 9 November to Monday 11 November 1991. The Guelph Amateur Radio Club (GARC) is using the callsign VG3W to commemorate Remembrance Day. Operation is planned for 1500 to 2200 UTC on 10, 15, 20 and 40 metres using SSB and CW, from McCrae House Museum at 108 Water Street. To receive a QSL card send SASE or IRC to Guelph Amateur Radio Club VE3ZM, P.O. Box 1305, Guelph, ON, N1H 6H9. (Item 5, CARF News Bulletin 14-91.)

The first guest licence issued to the Albanian Amateur Radio Association was to Martti Laine OH2BH, who was given the callsign ZA1A valid from 16 September to 9 October 1991. The station was operating on 14145 and listening on 10 to 20 kHz higher, with some activity on 10 and 15 metres. Many US stations have been heard operating outside of their allocated band. The situation is a

little better than the Bouvet operation. The FCC will probably issue pink tickets to those who accidentally call on the transmit frequency. Credit W5YI Report. (Item 14, CARF News Bulletin 14-91.)

The IARU Region 2 (North and South America) Executive Committee met in Grand Cayman, Cayman Island, on August 12-13. CRRL and Canadian amateurs were represented by IARU Region 2 Secretary Tom Atkins, VE3CDM. Much of the two-day meeting was taken up with preparations for WARC-92, now only six months away. Considerable expenses had been incurred in sending IARU delegations to various telecommunications administrations in Region 2 to enlist support for Amateur Radio, and amateurs throughout Region 2 were encouraged to support their various WARC-92 funds. Canada's WARC-92 fund, the Defence of Amateur Radio Fund, currently stands at about \$16,000. The future of Amateur Radio depends on your support. If you have not yet contributed, consider sending a cheque to the fund c/o Tim Ellem, VE6SH, 107 Strathern Rise SW, Calgary, Alberta, T3H 1R5. (Item 1, CRRL Bulletin 26.)

According to the W5YI Report, this fall, Tandy/Radio Shack will be entering the 2-metre Amateur Radio market with a handheld transceiver. In the US, the transceiver will cost \$295.95. It will be carried in virtually all Radio Shack stores. (Item 5, CRRL Bulletin 26.)

DOVE-OSCAR 17 is back on the air. Listen for its packet radio beacon on 145.825-MHz FM. Development work, including work on the voice messages promoting world peace, is under way. DOVE is a microsat. According to Oscar Satellite Report, in six years' time, there should be enough microsats aloft to keep most amateurs busy 24-hours a day. Amateurs in Italy, South Africa, Israel, Korea and the UK are all working on these "birds". (Item 2, CRRL Bulletin 26.)

Three additional notes from south of the border. If passed, a new FCC funding bill would open the way for ARRL to issue special call signs. The bill does not mention ARRL by name, but refers to "an incorporated association of amateur radio operators with more than 100,000 dues-paying members...". FCC reports that moving the 80-metre Novice CW band from 3700-3750 kHz to 3675-3725 kHz has worked out well. Canadian phone stations did not move below 3725 kHz as FCC feared they might, and mutual interference has been eliminated. Finally, US amateurs now have a reciprocal licensing agreement with Mexico. (Item 4, CRRL Bulletin 27.)

Congratulations to John Belrose, VE2CV, who recently received a QST Cover Plaque Award for his fine article, "Transforming the Balun" which appeared in 1991 June QST. John, who works at the National Research Council in Ottawa, is a long time contributor to QST and other ARRL publications. Through his articles, he has helped take the mystery out of mobile antennas, discones, the DDR antenna, slopers, and now, baluns. John was presented with his award at a recent meeting of Ottawa Amateur Radio Club. (Item 1, CRRL Bulletin 28.)

WARC-92 is less than five months away. As of September 18, the Defence of Amateur Radio Fund (DARF), established to help IARU defend our amateur frequencies at WARC-92, stood at \$19,692. If you have not yet contributed to DARF, please consider doing so now. Cheques may be sent to DARF, c/o Tim Ellem, VE6SH, 107 Strathem Rise SW, Calgary, AB, T3H 1R5. (Item 3, CRRL Bulletin 28.)

CRRL is still taking last minute nominations for CRRL Amateur of the Year. This award is given annually to a Canadian amateur to recognize a specific achievement in a given year, or exemplary service over a number of years. Send your nomination with

supporting documentation to the CRRL Secretary, Box 56, Arva, Ontario, NOM 1C0. (Item 5, CRRL Bulletin 28.)

All CRRL members in the Maritimes-Newfoundland and Ontario Sections: Nominations are now open for the office of Section Manager. For details on how to nominate, see 1991 October QST Canada. Also, best wishes to Joe Unsworth, VE2ALE, who is completing the term of Harold Moreau, VE2BP, as Quebec Section Manager. (Item 1, CRRL Bulletin 29.)

South of the border, two more NASA Shuttle astronauts have passed their amateur exams. Brian Duffy and David Leestma, both scheduled to fly STS-45 in 1992 March, are awaiting their call signs. This brings to six the total number of astronauts who currently hold amateur licences and are scheduled to fly over the next two years. (Item 4, CRRL Bulletin 29.)

Oct. 8/91

I hope you all got lotsa good stuff at the flea market.. sorry I missed it. Remember last month's "last word" (Patience). Well, I ran out of it, and it cost me a bunch. In my haste to check in to a local net, I hooked up the 12V DC to my handheld the wrong way around. The manufacturer puts protection diodes in the battery pack, but not in the radio itself. Since I didn't have a battery pack on the thing, I didn't have the benefit of those well named "idiot" diodes. The result was a whole week of evenings spent troubleshooting and around twenty five bucks worth of transistor. This, of course, means that all my other projects, including antenna stuff has had to be postponed. I missed the flea market because household chores got behind.

It wrecked a week. A schottky diode for a buck could have prevented it all. For all that, I still figure I got off lucky. If the damage had been more extensive, I might have had to toss the radio. So learn from my mistake and try to think of ways to make your toys foolproof. Then do them. ASAP.

On another topic.. There seems to be a lot of you who are saying "break" on two meters when you just want to join an existing conversation. Could we please all go back to just saying our callsigns in this situation. That way we can get back to reserving the word break for times when there is a problem out there. It isn't a law, just a really good idea. However, if somebody doesn't go along with this practice, or does something else on the air that you don't particularly agree with, the proper way to let them know how you feel, is to have a chat with them OFF THE AIR. The idea is to avoid making them feel defensive about things, and also to avoid scaring newcomers into staying in the "listen only" mode for the rest of their lives. This situation will occur more and more often as we get more new hams, and more new things to play with like the new link to Southern Ontario, or the remote HF station. That's enough heavy stuff for today.. aren't you glad I'm in a good mood?

While catching up on the housework, I found a quote in Worldradio that I wish I had heard when I was closer to six years old.. "Life is uncertain, eat your dessert first." With that thought in mind, I have sent for catalogues from a dozen ham radio distributors. More on that later.. I hope.

Last word (which has nothing to do with radio) .. RADIOLARIAN

73 ..VE3 FFK (mike)

ODE TO CODE

by Carle Graffunder, WY7H

Out of nothingness it comes in waves of silk, smooth as cream, swinging exquisitely, or like a machine gun, firing staccato bursts, sometimes ragged and sometimes measured, riding earth's blue from rim to rim.

It's not just sound and fury, not just dits and dahs: It's an inner eye that links with minds I cannot see. Like summer zephyrs, it comes gently to my ears and pricks memories, rejuvenates thought, encourages originality, makes me laugh. Ah, code is sheer poetry.

But, more than that, it's shelter - enclosure to keep out gallumphing whirl of workaday toccata, barrier against sound of metal and brawl, refuge of comfort and peace. Ah, code is being at home.

But code is also music. Once it came through sounders, then streamed through 'cans'. Now speakers play code's tune from wall to wall. Beginner's scratch or rhythmic flow of well-honed 'fist', identities emerge like songs from long, thin paths of sky. Ah, code is music to the heart.

Out of nothingness it comes in waves of silk, smooth as cream, riding the blue. It's not just sound and fury; it's not just dits and dahs. It's poetry, it's music; it's home sweet home: It's code.

de TCA

Originally published in QRM Newsletter, via Worldradio