



THE
OVMRC

RAMBLER

Volume 33, Number 11, 1990

CORDLESS TELEPHONES - MORE THAN MEETS THE EYE

by Dave Harris, VE3KMV

There is, virtually, a dizzying array of cordless telephones available these days, ranging in price from \$70 to \$370, when I last checked. As the price increases, features grow to include multi-channel manual or scan selection, audio companding, security features to "prevent" unauthorized outside access, base-to-handset paging, and other telephone functions such as autodialer, "speakerphone", and/or answering machine built in. With Christmas fast approaching, and for some, "after-Christmas sale" money lying in wait, care is advised when deciding whether to acquire a phone and which type to buy

CHANNEL SHARING

Early models used a duplex pair of 1.7/49 MHz channels. All recent models operate on one of ten 46/49 MHz channel pairs. In densely populated areas, you will be sharing a channel with several other people close by. Single-channel units have the channel marked on the package. Intermediate models offer two or three channels. Premium models, \$150 and up at this time, use a frequency synthesizer to provide all ten channels. Check with your immediate neighbours to select a channel different from theirs before buying. It can save headaches and you will both appreciate it later. Even the capture effect of FM has its limitations at very close range. An-

noying heterodynes have become an increasing problem.

When is a 10-channel unit not a 10-channel unit?

HOW MANY CHANNELS?

A trick question ... when is a 10-channel unit not a 10-channel unit? When it's in a urban environment, is the answer. Five channels are shared with wireless baby-room monitors that transmit a constant carrier when operating. Low-power walkie talkies and remote-controlled models also use channels 2,3,5,6, and 7. In all fairness, not all five are necessarily affected, but you may wish to avoid them on single-channel models.

Frequency planning has been haphazard with so many high-volume vendors contending for the same tiny piece of spectrum. The industry is asking for more channels in the already well-used 30-50MHz land mobile band, but this would not affect currently-available units.

RANGE

The elusive 'range' number is affected by many factors, such as effec-

tiveness of base and handset antennas (orientation, relative position, etc.), obstacles, and other nearby users. Transmitter range is limited by maximum antenna field strength, not absolute RF power. Antenna length is one metre maximum, and no external antennas are permitted. A quoted range of 500-1000 feet is the most to expect in an open, low-congestion area with few obstacles, much less by all reports of city use. My only advice is to ask someone with a particular model how well it performs. Wide variations are to be expected. Some ultra-convenience handsets have a totally enclosed antenna which does not project outside of its case. This appears to sacrifice range for convenience, but is probably fine for apartment dwellers.

PRIVACY

In a word, there is no privacy on cordless phones. Narrowband FM can be picked up by other telephones or scanning receivers. None of the following techniques has been applied, to my knowledge, to cordless phones, but might have been or may be in future. They are presented only as possible approaches.

Analog scrambling will eventually be rendered obsolete as low bit-rate digital speech is deployed, as it

Phones - Continuedpage 4



**OVMRC EXECUTIVE
1990-1991**

President

Doug Carswell VE3ATY
839-5854

Vice-President

Jeff Wilson, VE3RCI
833-0638

Past President

Alan Boyce VE3LNH
737-4937

Treasurer

Judy Taetz, VE3PAB
822-0937

Secretary

Suzanne Lanouette-Carswell,
VE3SLC
839-5854

Technical Advisor

Ed LeBlanc VE3VLF
829-6314

Public Relations

Ed Sieb, VE3RDZ
738-8924

Membership

Mike Beausoleil, VE3BGP
739-8871

Rambler Editor

Chas. King VE3PDK
733-2079

The Rambler is published monthly in Canada by The Ottawa Valley Mobile Radio Club Incorporated, P.O. Box 5530, Station "F", Ottawa, Ontario K2C 3M1. Permission is granted to republish anything, in whole or in part, with proper acknowledgement of its source. The opinions expressed in The Rambler are those of the author and not necessarily those of the Ottawa Valley Mobile Radio Club Incorporated.

**NEXT MEETING OF THE
OVMRC**

20 December, 1990

1930 hours

Room #1

Multi-service

Centre

**1480 Heron Road,
(East of Alta Vista Dr. near
Baycrest Drive on south
side of Heron)**

CLUB CALENDAR

GUEST SPEAKER

**20 December
Marg MacKinley, VE3EQE
President of CLARA**

Executive Meeting

**Thursday, 27 Dec
1900 hrs at VE3PDK's QTH
RAMBLER submissions
deadline 27 Dec!!**

**JANUARY MEETING
SHORTWAVE LISTENING**

**FEBRUARY MEETING
TOWER & ANTENNA S
23 FEBRUARY
CLUB DINNER**

**MARCH MEETING
TREASURES OF THE ARCTIC**

**APRIL MEETING
SHOW AND TELL
OVMRC FLEA MARKET
20 April, 1991**

Bunny HuntMay, 1991

AMATEUR RADIO NETS

- POT HOLE NET - Sundays 1000 hrs. 3.760 MHz (includes Swap Net)
- SWAP NET - (Ed Morgan, VE3GX regular feature of Pot Hole Net and Capital City FM Call Ed 733-1721 for listings and queries.
- POT LID NET - Sundays 1100 hrs(except Jul & Aug) 3.620 MHz slow-speed CW.
- CAPITAL CITY FM NET - Mondays 2000 hrs 146.94 MHz. Swap Net featured.
- PACKET RADIO VOICE NET - Mondays 2040 hrs 146.94 MHz follows Capital City FM Net.
- MILITARY NET - Tuesdays 2000 hrs 147.30 MHz.
- CUMBERLAND EMERGENCY NET - Wednesdays 1930 hrs, 147.03 MHz
- THE WISE OWL NET - Fridays 2000 hrs. 147.30 MHz
- OVMRC CODE PHONE - 825-0786 24-hr code practice..
- Champlain Mini-Net - Daily 1845 hrs 147.06 MHz

RAMBLER COMMITTEE

Editorial Committee

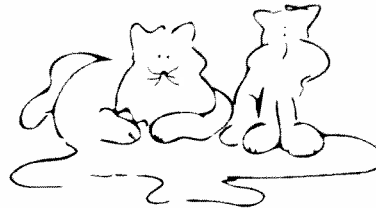
Chas. King, VE3PDK
Jerry Wells, VE3CDS
Pat Brewer, VE3KJQ
Jeff Wilson, VE3RCI
Ken Barry, VE3KJB

Circulation

Mike Beausoleil, VE3BGP
Fred Haire, VE3NJV
Eric Still, VE3OTT
Kevin Still

Strays

by Doug Carswell, VE3ATY



At the November meeting of the Club, a number of people volunteered to help out with the Flea Market and Field Day. The Flea Market Committee is to meet on the 26th of November. To provide them with some guidance, Jeff, VE3RCI, prepared a manual, describing the various things he did last year. Judy, VE3PAB, also provided comments on the food stand operation. I expect we will get a report from the Flea Market Committee at the next Club meeting. Watch for the announcements in the national amateur magazines. Chuck, VE3PDK, has indicated that he would represent the Executive on the Flea Market Committee, but I asked him to limit his participation (*the number of chores can be overwhelming if you're not careful*).

To those Club members who indicated that they would help with Field Day, I would like to say thanks for volunteering. I hope to meet with you at the January meeting to talk about getting the Field Day plans on the road.

Your Executive met on the 22nd of November despite the fog and rain at my QTH and dealt with a wide range of topics. (*There were over 20 items on the agenda and all were covered.*)

Ed, VE3VIF, reported that he has located a considerable amount of Club equipment. (*This was one of the jobs Ed was tasked with and I am not*

quite sure how he managed to do it. However, I would like to thank him for helping us to better manage the our resources and get it on a more business like footing.) We discussed what we should do with the equipment. We are relying on the good graces of a number of people to store these items in their homes. Managing the equipment requires diligence if it is to be maintained in good working order and not get lost. Your Executive decided to identify and store those things needed for Field Day and dispose of the rest: perhaps through an auction at the Flea Market. It was also decided that a legitimate use for the proceeds would be to procure test equipment of the more exotic nature for use of Club members. Perhaps you have some thoughts as to the nature of the test equipment that would best meet our common needs. Chuck, VE3PDK, Pat, VE3KJQ, and Al, VE3LNH, have been working as a group on our ByLaws. The purpose of the revision is to make it more readable as well as to provide a greater opportunity for members to participate in Club activities. One example of the current state of the ByLaws is the scattering of the rules-governing membership. Also there is a twenty-five dollar limit on-Executive discretionary spending, which is no longer consistent with today's costs. This committee has had a couple of meetings and expect

to present the results of their work to the membership as a whole during the months of February and March.

The Executive decided to go for a bunny hunt (hidden transmitter-hunt) in May. Gerry King VE3GK has suggested that it should be a three phase hunt, there should be some worthwhile prizes (not mickey mouse) awarded, that the entire amateur community be invited to participate, and perhaps conclude with a barbecue. It was generally agreed that we would follow Gerry's suggestions. The rules will be published in the near future and we are contacting the other Ottawa Clubs to see if they would be willing to participate.

Incidentally we will be having a "worth while" door prize at the January meeting.

A couple of meetings ago, I asked Dave, VE3KMV, if he would help in getting a UHF repeater operating. There are a number of problems to be resolved in such an exercise and they are formulating the plan to put the repeater into operation. We will get a report at the next Club meeting. If you are interested in helping in any way, touch base with Dave, KMV, or Ed, VLF, or Pat, KJQ.

There were a number of other items on future activities covered at the Exec meeting, but those are the highlights and I think our editor will complain about the amount of space I have taken up. 73s Doug, VE3ATY

LADIES !

You are cordially invited

To attend a meeting especially devoted to women's place in Amateur Radio

the Guest Speaker will be

MARG MC KINLEY, VE3EQE

President of the Canadian Ladies Amateur Radio Association (CLARA)

who is an Amateur of considerable experience and can speak authoritatively on the benefits of Amateur Radio to women of all ages.

Secretary's Minutes

by Judy Taetz, VE3PAB



In the absence of Secretary Sue VE3SLC, Judy, VE3PAB, the Club-Treasurer, volunteered to record the minutes.

1. Pres. Doug VE3ATY called the meeting to order and welcomed two guests: Bob Hicks VE3OSN who has just returned to Ottawa and Cecil Dick a student on the OVMRC Course.

2. Pres. Doug asked for volunteers to organize and participate on the various committees needed to make the year successful. i.e. Fleamarket, Field Day and the Amateur Radio Exhibition, VE3JW at the Museum. The following members volunteered to serve:

Flea Market Committee

Larry Woram, VE3WLN

Ken Barry, VE3KJB

Jay Maniate, VE3SGU

Chuck King, VE3PDK

Field Day Committee

Paul Gordon

Bob Hicks, VE3OSN

Vic Bajaj, VE3BSN

Larry Woram, VE3WLN

Volunteers for the the Amateur Radio Exhibit VE3JW will be taken at a later date.

3. The possibility of installing a UHF repeater at TWO was discussed with Ed VE3VLF. Pat VE3KJQ outlined problems & possibilities. The suggestion was made for a possible backup repeater. An autopatch will be looked into.

4. A request was made for members to step forward as course mentors. This year's course has 39 registered students to date. Anyone able to devote a little time to increasing the HAM population is asked to contact Pres. Doug or Pat KJQ.

5. The old climbing belt has been struck off the club inventory list for safety reasons.

6. Ralph, VE3GG of the Quarter Century Club asked for suggestions for a practicable system of disposing of HAM equipment left by Silent Keys. Anyone with ideas please contact.

7. There were no reports from CARF or CRRL.

8. GUEST SPEAKER Chris VE3CBK displayed his collection of No. 19 Sets and a "spy" radio of WWII vintage. He gave an interesting talk on the development and operation of the No. 19 Set in WWII and how his Whiskeytown Wireless Collection got started.

9. The second Speaker, Doug, VE3CDC described the work going on to restore a number of WWII radios at the War Museum. This is being done by volunteer amateurs and he is looking for additional-volunteers to help out. The times are very flexible and any hour ortwo will be appreciated.

10. The door prizes were awarded to two lucky attendees.

11. There being no further business it was moved by Joe, VE2JTH seconded by Jeff, VE3RCI that the meeting adjourned. The meeting adjourned to coffee and ragchew.

Phones frompage 1

will in the next-generation of cellular phones. Analog voice scrambling could be applied to cordless phones at manufacture time, or even as an add-on, if the price were right

. Currently, even a cheap commercial inversion scrambler board used in mobile radio costs \$200, and two would be needed per system. Single inversion systems are easy to defeat unless the inversion frequency changes frequently; a "rolling code" scheme ups the cost more, and, depending on level of sophistication, could also be defeated.

Split-band inversion, which divides the audio spectrum into two parts and inverts each separately, may be an economical solution.

Time-domain scrambling rearranges short segments of speech,

which are reshuffled at the receiving end. Intercepted speech has a bizarre human quality but is unintelligible. This technology is too costly for consumer products at present but has intriguing possibilities.

PHONE OF A DIFFERENT COLOUR

In Canada, a variety of "longrange" cordless phones are authorized, using ten 49/75 MHz channel pairs. Typical base and handset power levels are 1W and 1/2W respectively, far higher than the milliwatts permitted for ordinary cordless models. Range is reported to be as much as 1-2 km. This advantage has its price, with models costing up to \$1000 or more,

so it's not for the average user.

FUTURE TRENDS

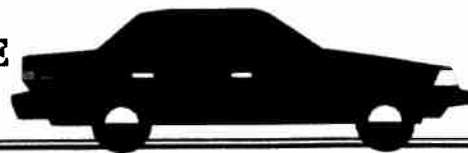
Development continues on a new breed of portable telephone network called CT2, using "microcell" technology. Microcell coverage is limited to hundreds of metres, with expected deployment in strategic traffic areas such as shopping malls, airports, and in the office environment. Home use is also a possibility, but don't hold your breath!

A WORD OF ADVICE

With all the Christmas and after-Christmas bargains that will be available this year, use your money wisely to buy the cordless phone that will best suit your needs. You should now have enough information to enable you to make a wise choice.

NEWS AND VIEWS FROM HERE AND THERE

by Pat Brewer, VE3KJQ



Here is our monthly roundup of amateur radio news from club bulletins across the country. This month I have nothing from Alberta, so our information comes from Halifax to Saskatoon. Let's start in Halifax.

The **Halifax ARC** was the only Canadian club to beat us out in Field Day points for our class. The *Reflector* reports they had 6,264 points to our 4,398. Club members participated in Science and Technology Days at a local high school. On the Boy Scout Jamboree on the Air weekend the Club tried to contact the Canadian ships in the Persian Gulf, but were unsuccessful. This was pre-arranged with Maritime Command. Contacts were made with North and South America, Europe, and Asia. Younger troops were encouraged to try for an "authentic" certificate indicating that they had sent their name in Morse code. Over 50 hams participated in the event.

A couple of notes from the **Ottawa ARC Groundwave**. Beginning in November their meetings started at 7:30 p.m. For the time being meetings of the Packet Group will be held at NRC on Sussex Drive. VE3CRA and VE3MPC both have 100 Hz. CTCSS tones on their output frequencies. If you have a tone decode board in your radio, you can keep your radio squelched except when the repeater is tripped, no false intermod trips.

There is little news from the **Sudbury SAR Communicator** this month. Their meetings are at the end of each month so that the bulletin arrives later than our press date. However, here are some good quotes from their October bulletin: *1. Any circuit design will always contain at least one part which is obsolete, two parts which are no longer obtainable, and three parts which are still under develop-*

ment. 2. If it weren't for the last minute, nothing would ever get done! 3. When you get to the point where you really understand your computer system, it's probably obsolete!

Most of the **London ARC LARC Bulletin** is devoted to an explanation of the workings of the new controller for the VE3LON repeater. Some of the more unusual features include reverse patch, a read back of your signal strength, and the ability to activate pocket pagers. The bulletin also has an article on the solar system and sun spots, which is mostly hogwash. It claims that the sun will slow down and eventually reverse direction over the next ten years causing "unusually large flares and spots, resulting in magnetic storms on earth and creating havoc with the ionosphere over the next ten years." Don't believe it! This article appears to be based on the so-called "Jupiter Effect". I will write the editor and suggest he contact the local centre of the Royal Astronomical Society of Canada for the real story.

The **Chatham Kent ARC Clear-Signals** is also a little old, but there is an interesting section on the Huron Lightship radio room amateur radio station. This ship guarded Southern Lake Huron on Corsica Shoal near the mouth of the St. Clair River from 1935 to 1970. It is now a museum in Port Huron, and an amateur radio station has been set up in the old radio room. It has a unique QSL card and there is a guest operator certificate for visiting hams. The station will only operate weekends during the winter and then be open Wednesday thru Sunday 1 p.m. to 4:30 p.m. from Memorial Day to Labor Day. It is located in Pine Grove Park.

The new **Border City Radio Club of Windsor** has really taken off. They

had 78 people at their first meeting and only had two dozen donuts! About 60 signed up for membership. Any doubts the founders had before are now gone. The "Newsletter" has an article on VHF scanner frequencies and is planning articles on SWL (Short Wave Listening). Is there anyone in our club interested in writing such articles for the Rambler?

The **Saskatoon ARC** has decided it is time to change the cover of *The Green Sheet*. If I'm not mistaken their present cover is a paste-up photocopy of the old (15 years ago) amateur study guide. This was the one with the circuit diagram of a transmitter on the cover. They refer to it as "our tattered and well worn cover page". The Club will be providing communications for the Junior Hockey Championships from December 26 to January 4 and also the Figure Skating Championships from February 3 to 10, 1991. Chris Morgan VE5BAR tells a tale of woe on two meters. He found that his packet station was wiping out a neighbour's channel 18 TV picture, even at five watts. The neighbour and the DOC were very cooperative. The cable TV company became involved and using a directional antenna and a receive frequency of 145.825 (Ch 18) the amateur showed them the direction of the leaks. They were caused by points where the coax was not connected to the connector shield. The leakage dropped from S9 to S4. Further investigation in the neighbour's home found several more loose connections. After these were repaired there was no interference even when the amateur used 100 watts beamed straight at the house. Chris feels that the good cooperation all round resulted in the neighbour having a good feeling about amateur radio.

ANNUAL OVMRC DINNER - SATURDAY, 23 FEBRUARY, 1991

Mark your calendar for this social event of the year, to be held at the Anchors on Dows's Lake

There will be fine dining, good companionship and draw prizes of all kinds.

THE MAN IN THE THREE-PIECE SUIT

by Gerry King, VE3GK

It was summer time and, as a high school teacher, I had some warm antenna time. I was constructing my first stacked array, a 3-over-3 for the 20 metre band. I would like to reflect on a humorous incidence than happened during the construction.

I know that I have told this story many times. However, I thought some of the new hams would get a kick out of it, so here goes.

The rotating tower was up and ready. It had two sections, a 40-ft double guyed stationary section and a top 50-ft rotating selfsupporting top section. There were two beam anchor points, one at the bottom of the rotating top section at the 42-ft level, and the other at the 90-ft level.

I then proceeded to construct two 3-element yagis on 25-ft booms. The first one was elevated to the 43ft anchor point. It sat there for a week or so while the initial tuning was done before raising it to the 90-ft

level. Now, my problem was I just didn't have the strength to lift the 85-pound beam up onto the top. I installed a set of pulley blocks on a gin-pole at the top. I brought the pulldown rope down the tower through another pulley so that the strain would be on the bottom guyed section. Ok.. ok , hear's the story:

"I have never seen this gentleman on my street since I wonder why?"

Because I was alone, I placed the rope across the roof, down and along the lawn to the curb. I put my safety belt on, climbed to the first anchor point and anchored myself. After attaching the beam to the bottom pulley, I secured the down rope and released the beam so that it hung on

the block and tackle at shoulder height. Then I waited.

After a while I spotted a target, a very well dressed three-piece suit walking down the street with a very official brief case in one hand. Anybody who has spent time up on towers will have noticed that people never look up. As he came within earshot I gave a shout and he came to a startled halt. I asked if he would mind giving the rope "a little pull"!

With him pulling, I started up the tower with the beam balanced on my back. I had complete trust in this person. After all, what kind of fellow would let go in a situation like this? About thirty minutes later, I climbed down from the tower, the job-completed, and thanked my perspiring assistant for his help. You know, I have never seen this gentleman on my street since! I wonder why?

OLD PARTIAL AMATEUR RADIO CREDITS

If you know of someone with partial qualification credits toward an Amateur Radio License, earned before restructuring, who may have questions on their validity, have them contact one of the Club's Delegated Examiners listed below. The Examiners can evaluate their current validity and advise them on their applicability to current licensing policy.

OVMRC DELEGATED EXAMINERS

The Club is pleased to announce that Communications Canada has accredited three of its members as Delegated Examiners for the purpose of conducting Amateur Radio Examinations

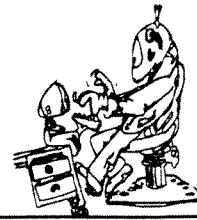
Ed LeBlanc, VE3VLF

Pat Brewer, VE3KJQ

Jerry Wells, VE3CDS

EDITOR'S CORNER

by Chas. King, VE3PDK



Last month's editorial could be repeated and be found to be right on target. Activities of the past month confirm the sentiments expressed in that editorial. Committees have come forward to plan the Flea Market for 20 April, 1991 and the Field Day for June.

The Flea Market Committee, chaired by Larry Woram, VE3WLN, with members Ken Barry, VE3KJB, Jay Maniate, VE3 SGU and your Editor has already started its work and has one commercial vendor already committed to three tables and the invitations have not even gone out yet!

Advertising is planned in the two national journals - The Canadian

Amateur and QST Canada for the months of January, February and March. A first ad appeared in the CARF News Letter of 1 December, but through our own error in earlier Ramblers, it has been announced as Sunday, 21 April vice Saturday, 20 April. This will be corrected soon.

Larry Woram's article on buying radio items in the U.S., which appeared in the November issue of the Rambler, was republished in the CARF News Letter of 1 December. Congratulations, Larry. Keep us posted on this area of interest. We know there are numerous changes in process. Let's have an up-date sometime in 1991.

Packet at the Rambler QTH temporarily out of business. What are the chances of two 2-meter rigs going on the fritz at the same time? Pretty good if you rely on them to receive the material for the Rambler. The rigs should be back or substitutes in place in the next few weeks, so perhaps by submission deadline in December, packet will be in operation. In the meantime, Mike, VE3BPG is acting as a relay point through VE3NAV. But call first if you have anything. A hand transfer may be easier, depending on your QTH.

Watch for a series of articles by Dave Harris, VE3KMV on transient protection to begin in the January issue.

THE GREAT EASTERN ONTARIO EYEBALL

Saturday, 20 April, 1991- 9 a.m. - Canterbury High School

Sponsored by the Ottawa Valley Mobile Radio Club

Start collecting, sorting and pricing your fleas for market .

Canterbury High School will, once again, be the site of the spring "eyeball" and flea market.

Mark your calendar now and reserve your tables early. The Club will auction surplus Club equipment and many commercial vendors are expected - Seaway Communications has already reserved for this event.

Talk-in Station: VE3TWO 147.30/90 - Refreshments, prizes, and radio raffle!

*Merry Christmas
to all*

and best wishes for good health, peace and prosperity in

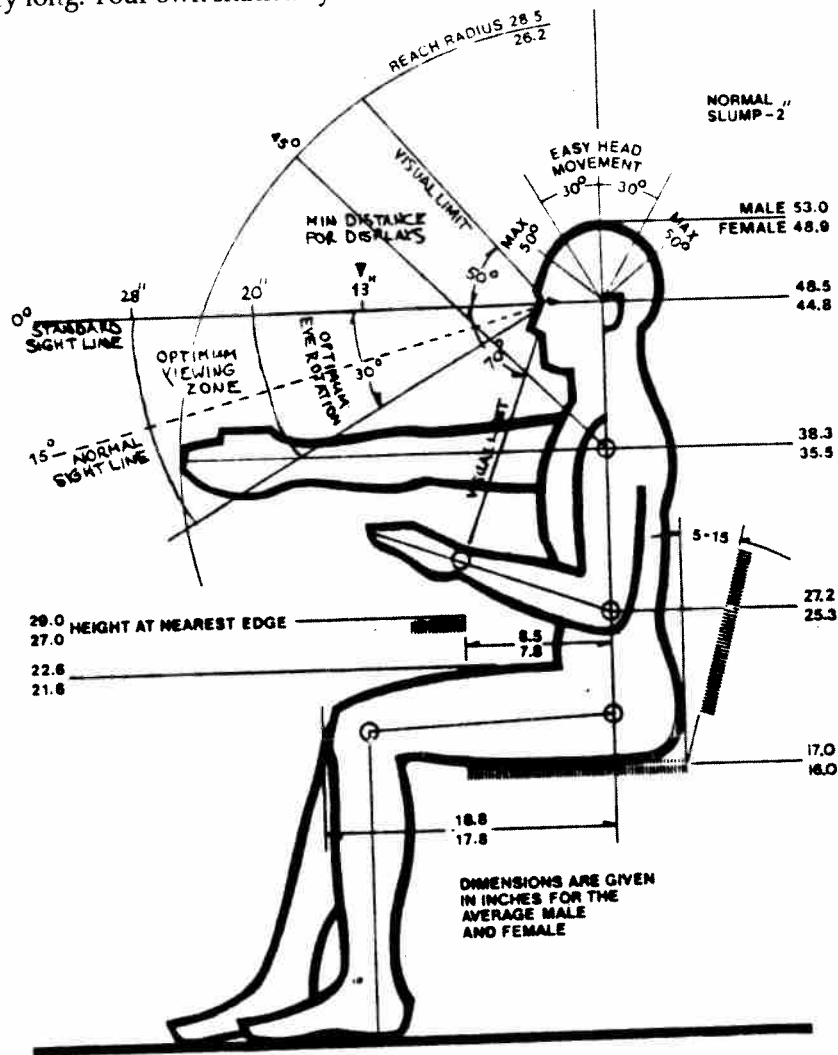
1991

WHO NEEDS A SHOW-CASE HAM SHACK?

by Chas. King, VE3PDK

Here it is the shack of the month! Large curved desk surface, equipment all set in panels, Morse key beautifully displayed, microphone suspended on a gooseneck arm and a large swivel chair to complete the picture of the ideal shack. Then, we look at our own messy shack with its equipment stacked on an old door sitting on trestles and an old typist chair for the operator and wonder how we can ever achieve a show case setup like the one in the picture. Well, if that picture shack was not designed for maximum efficiency and minimum fatigue, you may not want to operate it for very long. Your own shack may be

better. "How so?" you say. It's all a question of ergonomics or the science of interfacing man with a machine. The relative positioning of the body to the workspace can make a world of difference in the operator's comfort and efficiency both very important factors in a hobby that keeps you at the station for hours at a time. Ergonomists, specialists in biotechnology, have studied the optimal environment for an operator sitting at a desk or table and have come up with the following figures for the average male and female operator.



The diagram illustrates these parameters as they might be applied to an Amateur Radio shack design. If you are designing a shack, try to keep within these limits. If your shack is too far out of line with these recommendations, you may be able to reposition your gear accordingly. You should find this less fatiguing, making hamming that much more fun.

* Diagram source unknown and cannot be credited. Ed.

DX de YOU

by Jeff Wilson, VE3RCI



Calling all OVMRC members. Bring me your best DX catches of the month, any mode, any band (yes, VHF and above, too!). This DX column is based on the reports that you provide to me at each monthly meeting. You can also call me at 837-9598 or send me your logs via Packet Radio to VE3RCI @ VE3KYT. This column will only work if you support it. Let's hear who you've been working.

ON THE HF BANDS

From Henry, VE3OMU

Here are some typically good DX catches by Henry over the last few months:

C56/DL7FT (Gambia) 0729Z 14MHz CW;
VU2TTC (India) 1233Z 14.008 CW QSL via W8XM;
FO/FD1PLR (French Polynesia) 0821Z 14MHz CW;
V73AZ (Namur Is.) 0843Z 14MHz CW;
HK0TU (Malpelo Is.) 2118Z 21.195 SSB QSL via
HK3DDD; HB0/HB9NL (Liechtenstein) 1445Z
21MHz CW;
GC0EJE (Wales Club Station) 1642Z 28MHz SSB;
VQ9CQ (Chagos Archipelago) 1607Z 21MHz SSB;
R0ARS (Sakhalin Is.) 2141Z 21MHz
CW; VK8AV (Alice Springs, NT) 0850Z 14MHz SSB;
T20JH (Tuvalu) 0911Z 14MHz SSB;
JW/PA3CDO (Svalbard) 1601Z 21MHz CW;
FH8EJ (Mayotte Is.) 1527Z 28MHz CW.

From Jerry, VE3CDS

Jerry logged about 200 contacts during the Oct. 28 CQ WW phonecontest. Here's just a few of the many strange calls:

CQ4A (Portugal) 1313Z 21.305; RZ6AXO (European
R.S.F.S.R.) 1727Z 21.230;
R6L (Russia) 1750Z 21.302; JG3KIV (Japan) 2249Z
21.330; 7L1GVE (also Japan!) 0033Z 21.376;
CE0ZIJ (Easter Is.) 0158Z 14.127;
4Z7M (Israel) 0232Z 14.179;

SP5GIQ (Poland) 1300Z 21.382;
HG1S (Hungary) 1519Z 28.625;
UT5RY (Ukraine) 1516Z 28.603;
ZS4NS (South Africa) 1812Z 28.665;
EA8AGD (Easter Is.) 1834Z 28.665;
L4D (Argentina) 2235Z 21.267;
VP5T (Turks and Caicos Is.) 1801Z 28.777.

From Me, VE3RCI

It must have rained during the CQ WW Phone contest, because I managed to get on the air that weekend without my usual S9 noiselevel.

VP9AD (Bermuda) 2052Z 28.492 QSL via W3HNK;
9Y4BU (Trinidad) 2055Z 28.492;
L8H (Argentina) 2113Z 28.500;
P40V and P40T (Aruba) 2122Z 28.453;
FS/KC1F (St. Martin) 2213Z 14.138;
J37K (Grenada) 1416Z 28.516;
VE8CB (Cambridge Bay) 2000Z 28.290;
J6LNM (St. Lucia) 0501Z 14.182 QSL via K9BQL; and
JA1WPX (Japan) 0049Z 24.939.

From time to time you may get through a pile up to work Lloyd (W6KG) or Iris (W6QL) Colvin during one of their seemingly continuous DX-peditions as they work their way around the world. I worked them last March as FO0XXL, and they were in Africa last I heard. Their QSL info is via the YASME Foundation. For those of you who are not familiar with YASME, I direct your attention to an article in March 1986 CQ Magazine Novice column, p.66. YASME, Japanese for "good luck", was the name of a yacht used to sail around the world for DX-peditions. The YASME Foundation was set up in 1961 to help pay expenses and now handles QSL cards and publicity. To QSL via YASME, send your card to the YASME Foundation, P.O. Box 2025, Castro Valley, CA 94546. Don't forget to send a SASE for a quick reply.

73 and gud DX - Jeff, VE3RCI

STAY TUNED FOR MORE NEWS ON THE BUNNY HUNT

If you have a 2-meter handie, a coat-hanger, a hockey-stick handle, a piece of coax and a BNC connector, you are on your way to finding the hidden 2-meter transmitters.

NOVICE NEWS

by Ken Barry, VE3KJB

Although you don't have your license yet, you're over the hump in the course and will almost certainly have your license around February of 1991. It's time to start shopping around for radio equipment and to start campaigning for a location in your home for a "ham station".

The preferred location is in the basement because of the short ground lead required. However, this will result in a longer antenna feed line. The innovative amateur will no doubt find the shortest route for the coax from his antenna down to his transceiver. If you have difficulty, read an article by Larry Hill AA4DJ in the May 1990 issue of *Amateur Radio*. He tells how to run it concealed. What do you need in the way of equipment? The best advice I can give you is to read an article by Brice Wightman, VE3EDR called *Post-Graduate Course for Radio Amateurs*. This very informative article spells out the minimum requirements for a ham station, sets priorities for future

acquisitions, and tells where they can be purchased. I'm sure Brice won't mind supplying a copy to anyone who asks for one.

On April 20th, 1991, our Club is putting on a Flea Market at which all kinds of used radio equipment will be on sale at fabulous prices. Let me illustrate how good these prices can be by a little story. After a few months use, my Kenwood TS820S seemed to be losing power and I suspected the output tubes. I was told by my mentor that in all probability it was my tuning up that was at fault, but it would be a good idea to obtain a pair of output tubes to have on hand in case they did fail sometime in the future. So I priced two S21A's at a local electronic supplier and was told he could supply them for \$350. Well the transceiver nearly went into the garbage can. However, my mentor assured me they could be had for approximately \$35.00 for the pair at the Daytona Hamfest, which he would be attending.

In the meantime, Dan, VE3WCS had trouble with his set, which takes the same outputs as mine. Now here's the punchline. Dan went to the OVMRC Flea Market and picked up two used tubes for one dollar!

If you see used equipment at the Flea Market that you think you might like to buy, ask one of the Club members to advise you on its suitability and condition. If you have concerns about used equipment and your budget permits, see one of the several commercial vendors at the Market. They often give a good deal at these events and their equipment comes with a full warranty.

The thought for the month concerns two happy amateurs who had been into too many 807's and were walking home along a railroad track. "I have never seen so many steps in my life!" said one. "I don't mind the steps," said the other "but these low railings are killing me."

WHERE DO YOU FIND AN AMATEUR WHEN YOU NEED ONE!

According to the CARF News Bulletin 18-90 this is where.

(Geographical locations, percentage growth and distribution percent has been added for interest.)

CALL	LOCATION	1988	1989	1990	DISTRIBUTION PERCENT
VE0	Maritime Mobile	165	172	177	0.007
VE1	NB,NS,PEI*	2,105	2,158	2,149	8.200
VE2	Que	4,474	4,534	4,882	18.580
VE3	Ont	9,086	9,256	9,715	36.970
VE4	Man	842	841	893	3.400
VE5	Sask	830	826	864	3.290
VE6	Alta	2,024	2,049	2,144	8.160
VE7	BC	4,249	4,393	4,600	17.500
VE8	NWT	90	85	73	0.003
VO1	Nfld	483	499	540	2.050
VO2	Labrador	32	29	29	0.001
VY1	Yukon	50	50	48	0.002
VY2	PEI*	0	9	163	0.006
VY9	Communications Canada	0	0	2	0.000076
National Totals		24,430	24,954	26,279	
Percentage Growth			2.1%	5.3%	

* PEI adopted VY2 call in late 1989