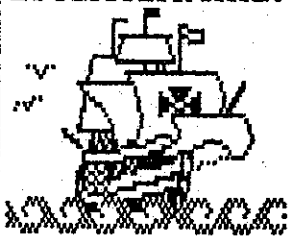


BICENTENNIAL.

BICENTENNIAL.



THE PROPAGATOR



ILLAWARRA AMATEUR RADIO.SOC.INC.

MONTHLY NEWSLETTER OF THE ILLAWARRA AMATEUR RADIO. SOC. INC.
VOLUME - 88 , NUMBER : 10 NOVEMBER 1988.

REGISTERED BY AUSTRALIA POST PUBLICATION NUMBER : NBH - 1491.

MEETINGS ARE HELD ON THE SECOND TUESDAY OF EACH MONTH ,
(EXCEPT JANUARY) AT 7.30.PM. AT THE STATE EMERGENCY SERVICES ,
BUILDING , IN MONTAGUE STREET , NORTH WOLLONGONG .

VISITORS ARE MOST WELCOME TO ATTEND THE MEETING'S .

HAMS BLAMED AGAIN !

Media Misrepresentation of Amateur Radio

Last Tuesday night the 3rd of October on television Channel Seven's nightly program Hinch at Seven, and also in the Sydney newspaper the "Daily Telegraph", there was an item concerning interference to a marine MAYDAY call.

Hinch reported that the signal, which originated off the coast of Wollongong, was jammed by ham radio operators thereby hampering rescue attempts and placing lives in jeopardy.

The Daily Telegraph reported (and I quote):

" ... a third complication arose when the distress signal frequency became jammed by a ham radio operator who was interfering with the marine distress frequency."

(end of quote)

Upon hearing this item, some amateurs telephoned Channel Seven to obtain more information. When this proved to be a waste of time, these amateurs went right to the source, that is the rescue authorities in Wollongong. It is worth

noting at this point that these authorities are also annoyed in the manner in which the item was broadcast.

The truth of the matter is, a call was heard which stated that there was a MAYDAY four kilometres off the coast of Wollongong.

No further information was given nor could the unidentified station calling MAYDAY be raised.

CONTINUED NEXT PAGE

AUCTION SALE NIGHT

BRING YOUR UNWANTED GOODIES, AND YOUR MONEY WITH YOU TO THE AUCTION, AT THE NOVEMBER MEETING ON THE 8th NOVEMBER 1988 -- LOTS OF BARGAINS & GOODIES FOR MEMBERS, VISITORS AND FRIENDS

HAMS BLAMED AGAIN CONTINUED

The authorities had noted that for some time that evening the radio conditions were such that there was an enormous amount of "skip" present and the frequency of 27.880MHz was extremely noisy.

Also, this frequency has in the past suffered image interference from local CB operators.

According to the authorities, the interference to the distress frequency was due to the "skip" conditions present that night.

This FACT seems to be irrelevant to the media, who think that the story would sound better if something (or someone) more tangible was to blame. So who is to blame? The media consider anyone even remotely interested in radio (CB, Amateur or otherwise) to be a "ham radio operator". We are the scapegoats! There seems to be some truth in the old saying "why let the truth spoil a good story?".

While some could forgive them for not being knowledgeable enough to distinguish between amateur, CB or pirate commercial, sta-

tions, the fact remains that the public have been told that "ham radio operators" were responsible for the interference to a distress signal.

What image does this place into the public's eyes of us the amateur radio operators? Not a good one we can assure you!

When Channel Seven was approached by the VK2 Council, they freely admitted that the facts were not totally correct and that they had not told the entire story. They were asked to broadcast a correction to the item but at time of writing this broadcast, none has eventuated.

The VK2 Council are writing to Channel Seven and the Daily Telegraph to attempt to set the record straight and get a correction item broadcast.

We ask that all amateurs do likewise. The more letters that Channel seven and the Daily Telegraph receive, the more likely that they will actually do something about it.

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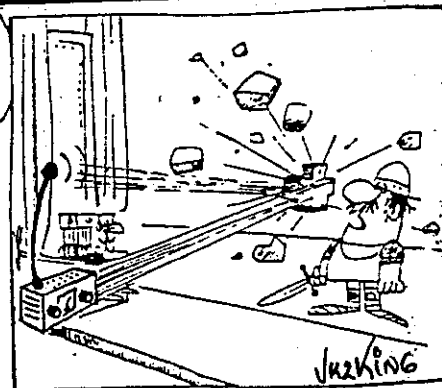
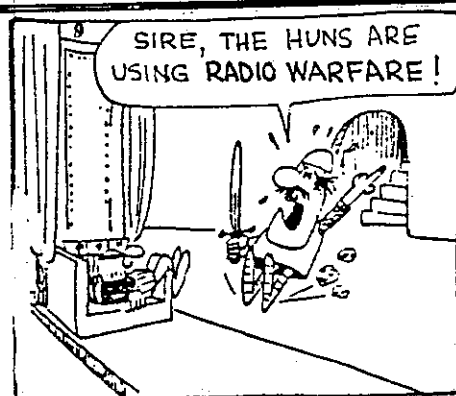
84-4359

SPARES REPAIRS
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AIR CONDITIONING
TOW BARS TOWING

It is most important that our hobby not be degraded by this inaccurate act of journalism.

Please support this by writing into Channel Seven and the Daily Telegraph. It is the reputation and public image of our hobby that is at stake!

AX2WI Broadcast, 9th Oct 1988. Copyright 1988 WIA (NSW) & contributors.



SEMI CONDUCTOR

THEORY PART 6

Common Connections.

Transistors have three terminals for external circuit connections, Emitter, Base and Collector, and there are three practical ways of connecting a transistor in a circuit.

The circuit shown at fig 12 is called a common base connection because the base is common to both the input and the output circuits.

The other two connections are called common emitter and common collector and are shown in figs 13 and 14 respectively.

Each connection has its advantages in specific types of circuits.

Amplifier Gain.

Transistors are widely used in circuits because they have the ability to amplify. But what is amplification? It can be defined as the process whereby the output current, voltage or power variations are made larger than the input signal variations that produced them. The term 'gain' is also widely used and tends to mean the same thing as amplification. Gain is more properly a ratio of output to input. Thus, current gain is defined as the ratio of output signal current to input signal current.

Common Base Amplifier.

The circuits shown at figs 12-14 are all of the NPN types. A common base amplifier using a PNP transistor is shown in fig 15 and the signal waveforms are shown in fig 16. To keep our discussion within simple terms, the input signal is shown as a sine wave; in practice, the signals often have more complex shapes than a single sine wave has.

As the input signal voltage V_i increases the forward bias of the emitter, the emitter current I_e increases and a corresponding increase in collector current I_c appears at the output. This changing collector current produces an output voltage V_o of the same sine wave shape across the load resistor R_L .

For junction transistors, the change in collector current is between 90 and 99 percent of the change in emitter current. The ratio of the change is an important property of the transistor called the short circuit common base current gain and is symbolised by the greek letter ALPHA. Mathematically, the current gain of a transistor can be expressed as follows: $\alpha = dI_c / dI_e$ where dI_c = small change in collector current and dI_e = small change in emitter current with the collector to base voltage held constant.

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The condition that the collector to base voltage V_{cb} be held constant means that the collector bias voltage V_{cc} should not change when collector current I_c changes with emitter current changes.

Since dI_c is between 90 and 99 percent of dI_e , α is close to, but less than unity. Therefore, a junction transistor in the common base connection as shown in fig 15, cannot act as a current amplifier. But the common base circuit can act as a voltage or power amplifier.

CONTINUED NEXT PAGE

SEMI CONDUCTOR CONTINUED

The input resistance is very low, in the order of 100 ohms or less, because the forward biased emitter junction offers little opposition to current flow.

The output resistance is very high, because the reverse biased collector junction offers opposition to current flow. Thus, with a signal applied to the emitter, a change in the current flowing through the very low input resistance is accompanied by almost as great a change in collector current flow through a high load resistance.

Consequently, a high voltage gain A_v and power gain A_p can be obtained.

The formula for voltage gain is: $A_v = V_o/V_i$ which can be written as: $A_v = dI_c \cdot R_L / dI_e \cdot R_i$ where V_o =output voltage, V_i =input voltage, dI_c =change in collector current, dI_e =change in emitter current, R_L =load resistance and R_i =input resistance.

The power gain is given by the formula:- $A_p = P_o/P_i = I_c \cdot 2 \cdot R_L / I_e \cdot 2 \cdot R_i$

As an example, the circuit of fig 15 has an R_i of 100 ohms, signal currents for emitter and collector are 100uA and 95uA (microamperes) and a R_L of 50K ohms, What is the value of A_v and A_p ??

Solution next month..

Peter VK2KHE...

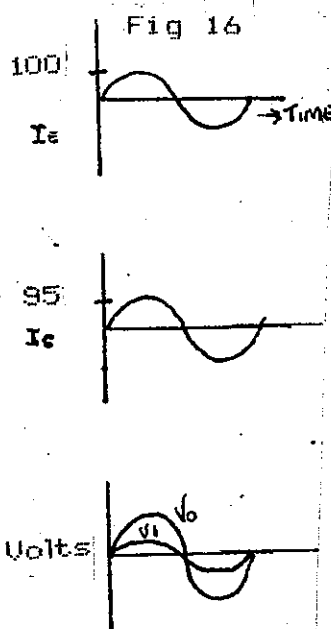


Fig 12 Common Base

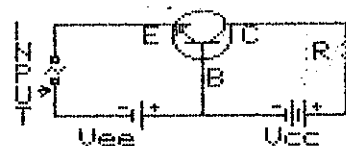


Fig 13 Common Emitter

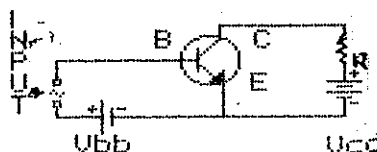


Fig 14 Common Collector

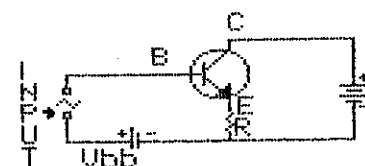
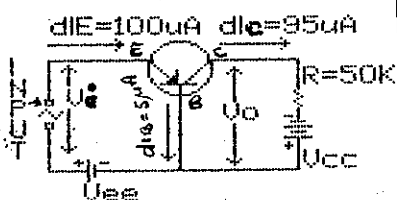
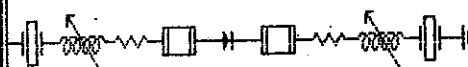


Fig 15



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goodies and your money
with you to the auction
at the November meeting
8-11-88-lots of bargains

TO ONE AND ALL

I HAVE FOUND THE ONE OF THE BEST CLEANING EQUIPMENT (A CLEANER) TO CLEAN UP ANTENNAS. I FOUND OUT VIA MY SON PETER KH6JEJ WHO WORKS WITH A/C'S CLEAN UP THE COIL AND OTHER PARTS USING WHAT IS CALLED.... << CON-COIL >> IT IS A CONCENTRATE WHERE YOU MAKE IT THREE PARTS WATER, AND ONE PART OF CON-COIL CONCENTRATE.

I HAVE USED IT TO CLEAN A FEW ANTENNAS. ONE A TH6DXX, AND A TH3..YOU NEED TO GO RIGHT UP TO THE ANTENNA TO SEE THE SPOTS IT IS UNABLE TO TAKE OUT. BUT,

WANTED

WANTED to SWAP FTU 707 Transverter and 70 c.m. module to swap for 6 Metre all mode Transceiver e.g. FT 890.R IC 505, IC 502 etc etc
Phone: Peter UK2BIT
After 6.30.p.m. on this number (042) 83-3743.
TNX.

GET YOUR MONEY IN

Members are urged to pay their FRL contributions where they have reserved a number as this is our only form of fundraising, and is needed for the Clubs operations.

I MADE A SMALL TANK, PUT EACH ELEMENT INTO THE TANK FOR ABOUT (3) THREE MINUTES, AND OUT IT COMES. CLEAN IT WITH WATER, AND ITS HARD TO TELL FROM A NEW ANTENNA. ANOTHER ANTENNA, I USED A PAINT BRUSH, LET IT SIT FOR A FEW MINUTES

(3), CLEANED IT OFF WITH WATER. LOOKS LIKE NEW. IT HAS HAZARDOUS MATERIALS: HYDROFLUORIC ACID PHOSPHORIC ACID HOPE THAT THIS HELPS OUT SOMEONE OUT THERE...

TONY..
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WOW, HOW'S THIS FOR VALUE ONLY \$4

- 1--- You pay at each club meeting, or however you wish. To a club committee nominated at this meeting (maximum of 3).
- 2--- The amount you pay to cover everything listed below will be \$4.00. per month. You can pay as many months in advance as you can afford, the maximum being for around 6 months (25 weeks).
- 3--- Once the list is complete, that is 40 names. That list CANNOT be changed. The reason being:- All members on the list and who are NOT in arrears will be included in the share of a LOTTO-TICKET, which will be taken out and a copy given to all on the list. If you wish to have more than 1 number you may do so and this will also entitle you to an extra share in the LOTTO-TICKET as well as extra chances of winning the weekly prize. WE MUST STRESS THE IMPORTANTS OF NOT BEING IN ARREARS as this will affect you in the event of any prizes that might be won on the lotto syndicate side.

HOW IT WORKS:-

Each monday nights lotto supplementary number that is picked will be the winning number for the list (you will be given a copy of the list) in the propagator, you can use this list to mark off who the lucky devil was. (I HOPE IT IS YOU) The winner will receive \$10. Winnings can be picked up at the club meeting. (Winners for all weeks prior to the meeting will be put in the Propagator.

WHAT YOU COULD GET OUT OF IT.

For the sum of \$1. per week you could get back in return \$10. per week (supplementary number) plus a chance of a share (or more than 1 share) in a \$1,000,000. LOTTO-PAYOUT. (\$25,000 per share approx.

WHAT DOES THE CLUB GET OUT OF IT.

That is easy too answer. The club, and remember YOU ARE THE CLUB, the club gets the surplus money after paying out for the weekly prizes plus paying for the lotto ticket for six (6) months. It will be using this surplus to keep in existence a very important part of the club, namely the "PROPAGATOR" so in reality everyone gets something back.

---*****---

SO LETS ALL BE IN IT AND SUPPORT OUR CLUB.

---*****---

I.A.R.U. REGION 111

NEWS FLASH

For The Information
of all Packet Users
World Wide

I have just attended the Seventh Regional Conference of the International Amateur Radio Union Region 111 Association held in Seoul, Korea from 10th to 14th October 1988.

Eleven Amateur Radio Societies were represented by delegates at the conference. The President of IARU, representatives from IARU

Regions 1 & 11 and the IARU International Secretariat were also present. A total of 104 papers were presented and considered by the Conference.

Eight working groups were appointed. One of these was especially important because it involved the revision of the existing Region 111 Band Plan to accommodate Packet Radio. This working group was composed of: Convener Ron Henderson VK1RH. Members David Tan 9M2DT ASG Member. Daishichiro Iida J11XHU. Jay Holladay W6EJJ ASG Member. Moeis Tjondro YB1CPT ASG Member. Bob Knowles ZL1BAD.

It recommended the following changes in the existing Band Plan :-

7 Mhz Data Sub-band
7.025 - 7.040 Mhz.
10 Mhz Data Sub-band
10.140 - 10.150 Mhz.
14 Mhz Data Sub-band
14.070 - 14.112 Mhz.

Considering the Dramatic increase in data mode usage on the 20M band it is recommended that the Sub-band for those classes of signals are 14.070 Mhz to 14.112 Mhz (with a +/- 500 Hz guard band at 14.100 Mhz for CW beacons) and within that data Sub-band the current practices of traditional data modes may continue up to 14.095 Mhz with 14.095 Mhz to 14.112 Mhz being reserved for other data modes including packet.

This recommendation was put to the Conference and after a lengthy debate was unanimously carried. This in effect means that the present BBSs operating on frequencies up to 14.111 are within the newly authorized band and therefore requires no changes. Further Details pending. 14th October 1988 David Tan 9M2DT.

TAKEN FROM AX4TTY

POWER DIVIDER

A new two way power divider model P8268-2, which operates over the entire frequency range of 86Hz to 186Hz covering all X-band and Ku(J)-band applications, is available from March Microwave.

The divider is believed to be the smallest available at just 1x1x0.5 inches and yet the performance of 20dB minimum isolation and 0.8dB insertion loss is maintained across the full frequency range.

A high degree of balance between the output ports is also achieved with 0.2 dB maximum amplitude and 5.0 degree minimum phase. The unit is capable of taking up to 30 watts of average power into a 1.2:1 VSWR load. The VSWR of the divider itself is 1.5:1 maximum. Construction is stripline and is housed in an aluminium alloy body with parallel output SMA connectors.

taken from the XY BBS.

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Physics is FUN!

By DERRICK DAINES

Induction

The galvanometer we made last month illustrates that current flow can cause deflection of a magnet. The reverse is also true, that movement of a magnet can cause current flow.

Wind approximately 10 turns of fairly thick copper wire into a flat coil and put this in series with the galvanometer as shown in Fig. 1. If a magnet is now moved backwards and forwards within the coil, the needle of the galvanometer will move in sympathy. Since we know that the needle moves by application of a current, the only place that current can come from is movement of the magnet. Notice that if the magnet is held stationary within the coil no current is produced—it is only movement of the magnet that does it.

Magnetic Field

For the next series of experiments a small bell transformer is necessary. We call the coil that is normally connected to the mains, the **primary** and the part that is normally connected to the bell, the **secondary**. Connect a battery and a switch to the primary and the galvanometer to the secondary shown in Fig. 2. Opening and closing the switch will cause the needle of the galvanometer to be deflected first one way then the other, but whilst the switch is either closed or open, no deflection is observed.

This is interesting since it shows that the magnetism inducing the current which deflects the galvanometer does not actually need to **move**, it is enough if the magnetism is building up or collapsing. This is such an important point that it bears repeating: "a magnetic field collapsing or building up induces current flow in an adjacent coil".

Steady magnetism does not have this effect.

Neon Oddity

If we substitute a 90 volt neon lamp for the galvanometer as shown in Fig. 3, we may observe another oddity. This time as we open and close the switch we will observe that the lamp lights briefly only when the circuit is **broken** i.e., when the magnetic field is col-

lapsing. (If it also lights when the circuit is closed, reduce the supply voltage.) Usually, two or three times the supply voltage is needed to make the lamp flash while closing the switch.

Move the neon lamp to a position across the low voltage battery, as in Fig. 4. Leave the secondary winding open circuit, it is not used in this experiment. Again, the neon lamp lights briefly when the switch is opened. This is a very puzzling phenomenon. Clearly the coil has somehow managed to induce current in itself; moreover, a current that is greater than the original supply! Is that true?

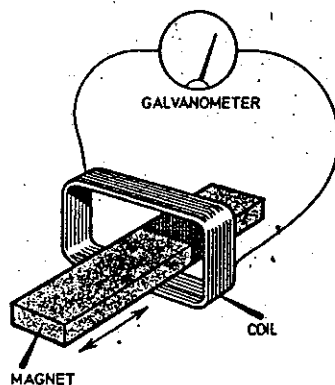


Fig. 1. When the magnet is moved to and fro a current flows and registers on the meter. No movement—no current.

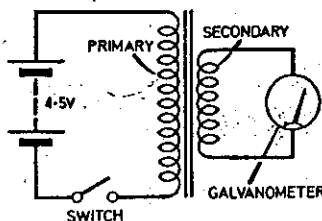


Fig. 2. Only when the switch is turned on and off does the meter needle deflect.

Self Induction

No, it is not. What has happened is that a **voltage** greater than the original has been induced in the primary coil. Curiouser and curiouser! However, regular readers of this magazine will have learnt already all the necessary ideas needed to put together a picture of the complete effect. However, for those readers who are still in the dark, the following explanation will make things clearer.

As the switch is closed, a magnetic field is formed about the coil. Upon opening the switch the magnetic field rapidly collapses, inducing in the coil a short-lived high-voltage current sufficient to "strike" the 90 volt neon lamp. This phenomenon goes by the name of "self induction" and next month I shall describe how to make a shocking coil utilising the effect. I do ask you however, to remember that the particular experiment described in Fig. 3 forms a good introduction to hysteresis. A subject we will discuss in a future issue.

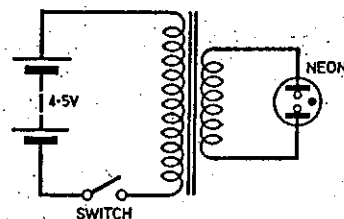


Fig. 3. When the switch is turned on, nothing happens, but when it is turned off, the neon flashes once. For a neon to flash, it needs 90 volts across it—so this is a strange happening!

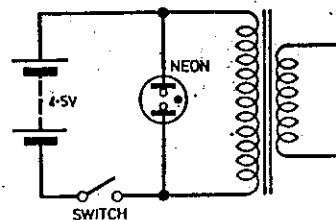


Fig. 4. Even on this side of the coil, the neon flashes when the switch is opened. Nothing happens when it is closed.

ON THE NET

18/9/88

VK2KGI-DAVE, Co-ordinator
VK2AXI-BRIAN, VK2EMV-MORRY,
VK2BIT-PETER,
AX2DFL-DAVE.

9/10/88

AX2ENX-TONY, Co-ordinator
VI88NSW-BILL, VK2HQ-FRANK,
VK2JNC-NEIL,
VK2KHE-PETER, VK2BIT-PETER,
VK2PHD-RAY...

16/10/88

VK2KGI-DAVE, Co-ordinator
VK2EMV-MORRY, VK2NNJ-JOHN,
VK2AXI-BRIAN,
VK2KTF-FRED....

C/B ON VK2AMW/P WERE:-
VK2AXI-BRIAN on RTTY.
AX2ENX-TONY. Voice these
were taken on 80 mx....
C/B ON VK2AMW/P 2 mx :-
RTTY.. VK2XGJ-JOHN,
VK2JHW-HARRY, VK2EMV-MORRY,
VK2KHE-PETER..
AND ON VOICE WERE:
VK2ALU-LYLE, VK2EMV-MORRY,
VK2EJH-PETER,
VK2MT-ROB, VK2XGJ-JOHN,
and VK5ZDF/2-GREG....

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OCTOBER MONTHLY MEETING

Twenty seven members and guests were present for the meeting when Keith VK2OB gave a report on the new amateur exam format.

The evening entertainment was an interesting video of an expedition to the Antarctic provided by Rob VK2MT.

This video was very well received by those present and the meeting closed with the usual supper and rag-chew.

OCTOBER COMMITTEE MEETING

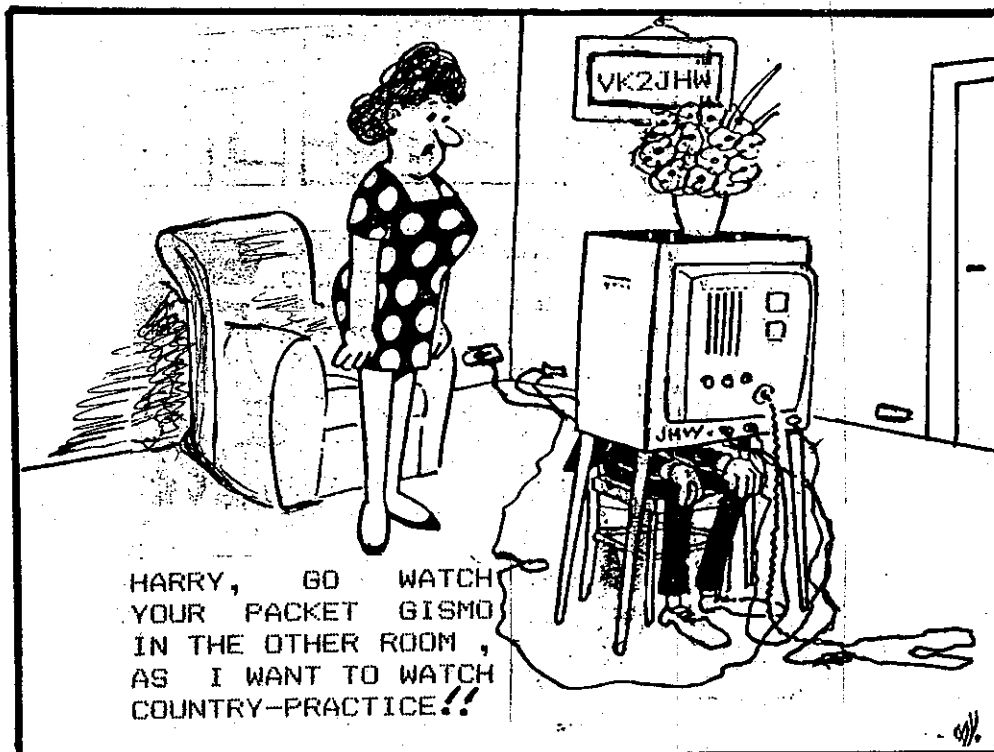
At the committee meeting held on 18/10/88. The following subjects were discussed.

F.R.L.(5). is hung up because many members have reserved numbers but not paid their fees.

The Club Xmas picnic will be held on the 11th December 1988, the venue will be announced in the December newsletter, and Santa will be on hand to pass out gifts provided by parents.

The November monthly meeting with our annual auction will have goodies donated by Macelec and a wide range of articles to be auctioned for the club and members.

Planning for new antennas for the VK2RIL repeater and for the Club station at the S.E.S. rooms,, and plans to promote the Club-store.



C.W. - THE HARD WAY

The question is - Is morse code a dead language ?? No, say quite a few deaf, blind and mute amateurs. There are many of these amateurs on the air and the so-called normal amateurs often would not know that the other party is partly disabled. Should you ever contact Mark, GØEMZ, remember that he is blind, deaf and also a very handicapped individual who has extreme trouble using his hands. Through a headphone placed on the

temples, he is able to detect vibrations and in this way mark learned the morse code, thanks to his teacher and friend Daisy Fletcher who also knows the morse code. Under non-amateur conditions, these two converse by Daisy tapping the morse code on Mark's hands. Despite his physical handicap, Mark is still able to punch out 20 WPM and can receive up to 35 WPM.

(WHO says they can't learn the code ?? - ED.)

WORLD CHIP SHORTAGE

Japan's Ministry of International Trade and Industry expects the shortage of memory chips to continue until the end of the year.

A MITI study shows Japanese manufacturers have boosted production but supply of basic memory chips for computers and electronic equipment - primarily 256k dynamic random access memories and 1-megabit chips, is not expected to keep up with

the demand for at least six months.

All but two US manufacturers pulled out of the industry in the early 1980's leaving Japan as the leading supplier of basic memory chips.

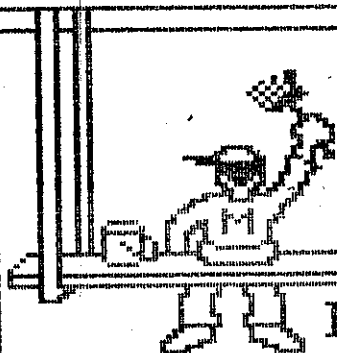
The President of the Hewlett-Packard Computer Group said recently that a new desktop computer had already been delayed by 4-6 months because memory chip supplies were getting much tighter.

Some members of the industry say the shortage is due to the anti-dumping trade pact

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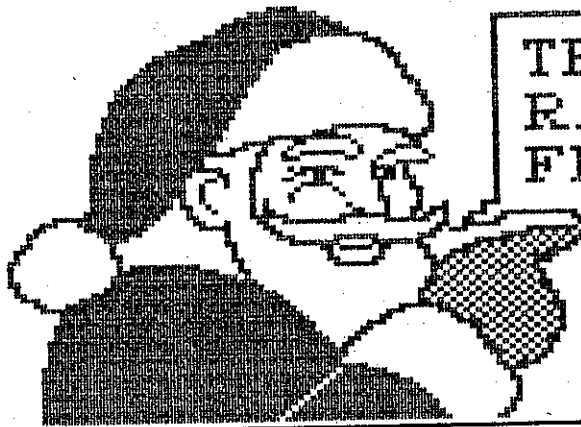
between the US and Japan, while others argue it results from problems caused by the change to 1-megabit chips.

Taken from the BBS.



WANTED: AM CB.

Transceivers using Cyber-net boards. working or not). For Club 10 metre FM Repeater project. Contact Rob-UK2MT or Peter-UK2BIT on (042) 84-7889 & (042) 83-3743.



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& HARMONICS & FRIENDS
TO THE CLUB XMAS PICNIC
ON SUNDAY 11/12/88 ----
SANTA WILL BE THERE!!!!

MUSHROOM ARC-VIRUS ?

The myriad of telephone bulletin boards around the country are running hot with the news that a currently widely circulating program MUSHROOM. ARC contains a nasty 'virus' which can cause all sorts of disaster when it comes into contact with another 'trigger virus'.

Apparently, those who have diss-assembled the program have found something like 19k of red hot 'virus' code waiting ready to strike, every time the program is run.

From what I have been told, it writes a string in random places on the HDD, and then copies it elsewhere every subsequent time the program is run.

I have requested a file of their dis-assembled code so that it can be examined properly, and more comments will follow once this has been done. First info is that there is no 'cure' for it, but that has yet to be confirmed.

It would be wise to warn all that their downloaded MUSHROOM.ARC programs may be rather lethal on HDD's.

Incidentally, the program was uploaded onto the AMPAK OPUS / PRBBS by a well known identity from the

computer industry many months ago, when he wasn't aware of the problems it could cause.

Efforts are being made to trace it's path on BBS back to the original sender!

Says a lot for keeping an archive log of uploads, doesn't it!
taken from XY-BBS..

STOP PRESS

More goodies for our Club auction. Illawarra Communications has donated various pieces of electronic equipment to be sold at our November auction night.

All proceeds will go into the Clubs funds. The Illawarra Amateur Radio Society inc Club wish to thank Illawarra Communications for their donation and also Tony Stone VK2VTS (used to be VK2VPR) for arranging the above...

BIG EVENT! AL5H
MEMBERS ARE URGED TO PAY THEIR
F.R.L.5. CONTRIBUTIONS WHERE THEY
HAVE RESERVED A NUMBER. AS THIS IS
OUR ONLY FORM OF FUNDRAISING, AND IS
NEEDED FOR THE CLUBS OPERATIONS !!!!!!!!!

THE ILLAWARRA AMATEUR RADIO SOCIETY. INC

P.O. BOX. 1838. WOLLONGONG. 2500. N.S.W.

MEETINGS: Are held every 2nd Tuesday of the Month except January, at 7.30.p.m. in the S.E.S. Headquarters, Montague street, North Wollongong.

REPEATERS:

VK2RAW - 146.850. - (VOICE)	VHF Mt Murray.
VK2RAW - 147.575. - (PACKET)	VHF Mt Murray.
VK2RIL - 147.275. - (VOICE & R.T.T.Y)	VHF Sublime Point.
VK2RUW - 438.225. - (VOICE)	UHF Hill 60 Port Kembla.
VK2RIL - 438.725. - (VOICE & R.T.T.Y)	UHF Sublime Point.

BROADCAST: On Sunday evening prior to the club meeting, at 7.00.p.m. R.T.T.Y. Mode Transmitted on 147.275.VHF, and relay on 3.562.Mhz. +/- QRM. Callbacks taken immediately afterwards. The voice broadcast will be held straight after the WIA Broadcast on 146.850.Mhz < VK2RAW > and 3.562.Mhz +/- QRM.

W.I.A. RELAY: On 146.850. at 10.45.am. and at 7.15.p.m. each Sunday.

CLUB - NETS: On 3.562.Mhz. SSB +/- QRM on Sunday at 8.30.p.m.

NEWSLETTER: "THE PROPAGATOR", published Monthly to reach FINANCIAL-MEMBERS in the week preceeding the club meeting. All articles, adds etc, to the editor must be in, or try, by the 3rd Tuesday each month.

MEMBERSHIP: The Secretary, I.A.R.S. Inc, P.O.Box.1838. Wollongong. 2500. Full membership is \$12 per annum; students & pensioners concessional members \$9 per annum.

AWARDS: The Award of the Illawarra Amateur Radio Society. Inc. is the LAWRENCE-HARGRAVE-AWARD. VK stations require 10 contacts with I.A.R.S. members. Overseas stations require 5 contacts with I.A.R.S. members. A contact with VK2AMW is sufficient for the award. Band-details, date, frequency, station worked and \$2 or 2 I.R.C.'s to THE AWARD-MANAGER, I.A.R.S. Inc, P.O.Box. 1838. WOLLONGONG. 2500. No QSL-CARD is required.

STORE: The club store operates at each club meeting. by COMMITTEE-MEMBERS.

COMMITTEE:

PRESIDENT:	VK2DYU- BILL CHADBURN. 45. Beltana Ave, Dapto.
VICE-PRESIDENT:	VK2OB - KEITH CURLE. 24. Beach Drv, Woonona.
SECRETARY:	VK2TPH- PHILL HOWCHIN. 12. Mawarra Ave, Dapto.
TREASURER:	VK2DNR- DENIS MCKAY. 17 Doncaster street Corralim.

GENERAL-COMMITTEE: VK2BIT - Peter Woods, VK2XCC - Ray Ball, VK2FPN - Peter.

REPEATER - CHAIRMAN: VK2XGJ - JOHN. SIMON.

REPEATER - COMMITTEE: VK2CAG - GRAEME DOWSE, *VK2EXN - IAN CALLCOTT, VK2KHE - Peter Tomlin, VK2FPN - Peter, *VK2EMV - MORRY .v.d. VORSTENBOSCH, VK2MT-ROB-McKNIGHT, VK2BIT-PETER WOODS, VK2FCF-FRED BROWN.

QSL-CARD'S OUT : VK2IU - RAFFAEL BUONO.

QSL-CARD'S IN : VK2BIT - PETER WOODS.

PUBLICITY - OFFICER: - (STILL LOOKING FOR ONE) (?)

BROADCAST - OFFICER: VK2KHE - PETER TOMLIN.

CARTOONIST : VK2AXI - BRIAN WADE.

PROPAGATOR-EDITORS : VK2JT - JOCK TAYLOR, VK2EMV - MORRY.v.d.VORSTENBOSCH, VK2KGI - DAVE CAPON.

PRINTERS : VK2DFK - MIKE KEECH. AND POSTED BY VK2BIT - PETER WOODS.

SOCIAL-DIRECTOR : VK2XCC/PHD - RAY BALL. D.O.C.LIASION VK2OB - KEITH CURLE.

CANTEEN-MANAGER : VK2DYU - BILL CHADBURN.

LIFE - MEMBERS : VK2CAG-GRAEME DOWSE. VK2OB-KEITH CURLE.VK2ALU-LYLE PATISON

SUNDAY - EVENING - CLUB-NET - ROSTER: STARTING AT 8.30.p.m.

8.30.p.m. FIRST SUNDAY OF THE MONTH : VK2MT - ROB McKNIGHT.

2 nd SUNDAY OF THE MONTH : VK2ENX - TONY MOWBRAY.

3 rd SUNDAY OF THE MONTH : VK2KGI - DAVE CAPON.

4 th SUNDAY OF THE MONTH : VK2PHD - RAY BALL.

5 th SUNDAY OF THE MONTH : VK2EBI - KEVIN MURPHY.

And on stand-by : VK2EMV after NOTIFICATION ONLY!