

(continuing C:\WINDOWS)

CHARTRC.EXE	SEARCH.DBF	SECTGRS.SCF	TELEGR.DBF	TELEGR.LEXE
WINFILE.HLP				CLIPED.EXE
CONTROL.EXE				CINEMAG.I61
FIFED11.EXE				VICEN.EXE
CLARIC.I61				CONTROL.I61
GRIN.GRP	ACCESSOR.GRP	GAMES.GRP	STARTUP.GRP	APPLIC1.GRP
GENIC.FIF	EDIT.FIF	WINFILE.1	DOCAPP.I61	ENTPACK.I61
EXCELTER.I61	EXCEL4.I61	EXCEL.SLE	FILEMG.I61	TODC.FIF
POLICOLF.I61	INDEO.I61	WINM1.V31	SYSTEM.V31	256COLOR.BDF
WINHELP.EXE	HW3000.EXE	RED.EXE	DIRC.DOC	INET.I61
CHECK.FIF	HEWLE.FIF	JURDOB.I61	SYSTEM.I61	LEVELNL.I61
MOUSE.I61	CHILACT.WC	APPELLO.GRP	WFLAYER.I61	BOWE.DOC
MOUCH.I61	RED.I61	REDRAW.I61	REDRAWP.I61	REXTORC.I61
MOUCBOX.I61	HOWHOLE.WOC	LATCHOP.VOC	SHUTTLE.BDF	THUNDER.VOC
ECONOM.I61	VPR.I61	VICEN.T81	WDBACKP.I61	VINGG.LOC
ROTON.FIF	WOC.GRP	WOC.GRP	WOC.HLP	WOC.HLP.231
RE.I61				WOC.CLP
COL.I61				WOC.NEC
WATK.DL				WOC.253
SYSTEM1.I61	SYSTEM.NEC	SYSTEM.GRP	SYSTEM.NEC	SYSTEM.I61
SYSTEM.I61	SYSTEM.OLD	WIK.DOC	SYSTEM.I61	SYSTEM.DLL
POWERIP.DLL	TOWHENDR.SIS	WIND1.I61	WIND102.QCC	SYSTEM.NOC

The Official Journal of The Gippsland
Gate Radio and Electronics Club Inc.

Press any key to continue

July 1996

Gippsland Gate Radio and Electronics Club Inc.

Club Meetings are held on the third Friday of each month
at the Cranbourne Girl Guide Hall in Grant Street.

The doors open at 8:15 PM & the meeting commences at 8:30 PM.

Visitors are most welcome.

Committee Members 1996/1997

President	Ian Jackson	VK3BUF
Secretary	Ivan Blezard	VK3ARV
Treasurer	Paul Ash	VK3HSA
Event Queue Co-ord.	Helmut Inhoven	VK3DHI
Social Co-ordinator	Reg Goddard	VK3JRG

Magazine Editors & David Campbell VK3XMF
Printing and Dispatch Cathie West Ph. (03) 9789 6401

Deadlines for articles is Thursday week prior to the Meeting.

Club Station VK3BJA Located at the Guide Hall

Club Repeater VK3RDD Freq. in 52.575, out 53.575 Mhz

Call in Freqs. are HF on 28.325 Mhz, USB

VHF on 146.225 Mhz, FM and UHF on 438.850 Mhz, FM

Current GGREC Inc Membership Fee Schedule

Full Member \$25.00, Pensioner Member \$12.50

Junior Member \$12.50, Extra Family Member \$7.50

Fees due after each April Annual General Meeting.

Notes From The Editor

Thanks this month go to Ian VK3BUF for part 3 of his Star Trek short story which leaves us with only next month for the exciting conclusion. Thanks also to Helmut once again for preparing the Event Queue, Propagation Report and Contest Calendar.

Once again if you have any items of interest you would like to see published in your club magazine please post on 3.5" disk preferably, or fax or phone them through to me at least a week before the general meeting.

As we mentioned last month Ron VK3EXJ and Judy have left on an extended trip north, so you might like to give them a call. Crank up your HF rig on a Tuesday or Thursday night at 8:00 PM on about 3.610 Mhz. I'm sure they would be pleased to hear from any of the Club members.

Ctrl/Alt/Del.... David VK3XMF and Cathie

THE PRESIDENTS REPORT

Last week one of the kids looked up from the telly to ask 'Hey Dad, did Mc Donalds invent the Olympic Games?' I was appalled but not surprised. Sometimes it seems that history is not so much being re-written as ignored. It is fine that we embrace new lifestyles and technologies, but surely it is equally important that the past is not forgotten. The art and theory of rigging a sailing ship or manufacturing a steam loco, in its own way is no less complex than modern electronics that surrounds us. One of the most interesting features of old technologies is that within them lies many concepts that have modern applications. Amateur Radio is one such technology. If you can, have a good look at some of the 'electrical' manuals from earlier this century, you will be surprised at the depth of knowledge that existed then. Like the Olympics, just because it *looks* new, it doesn't mean that its foundation hasn't been there for a long long time.

Back to the Radio Club scene and you will notice from the event queue that some interesting items are afoot. We are about to embark on a series of educational sessions on computer topics. We plan to have a number of speakers over the next few months, but I will be setting the ball rolling with an introduction to MS DOS this coming meeting night.

Our White Elephant Sale is coming up fast, If you would like to set up a stall, then ring me to reserve a table. If you only have a couple of things to sell, then bring them along anyway, the Club will have a table of its own available to members.

Another little item of news that has surfaced this week is the break in that took place at the Guide Hall on Tuesday night. Some kids pried open the main door, and all the other doors within, including our Club rack. Apparently nothing has been taken, but there will be a bit of work to repair some lock mechanisms. Two other buildings nearby were also raided on the same night. It seems that if they did not find cash, then they were not interested in taking anything else.

This Friday night will consist of a brief general meeting followed by the first of our computer training sessions, 'An introduction to MS DOS', with myself in the hot seat. Before long we will be printing a timetable for a number of these sorts of lectures.

See you there.

de Ian Jackson VK3BUF

EVENT - QUEUE

Prepared by Helmut VK3DHI

Friday 19.07.96 08.15 pm Club Meeting
Talk on the FT 2400 by Mike, VK3KTO.
Talk on MSDOS by Ian VK3BUF.
Saturday 20.07.96 07.30 am GGREC WHITE ELEPHANT SALE

Friday 02.08.96 08.15 pm
Talk on Windows 95.
Tuesday 09.08.96 08.00 pm Committee Meeting
Friday 16.08.96 08.15 pm Club Meeting
Talk on Word for Windows.

Friday 06.09.96 08.15 pm
Talk on the Internet.
Tuesday 09.09.96 08.00 pm Committee Meeting
Friday 20.09.96 08.15 pm Club Meeting
Talk on PC hardware.

=====

**THE GGREC WHITE ELEPHANT SALE WILL BE HELD ON 20.07.96
AT: GIRLS GUIDE HALL, GRANT STREET, CRANBOURNE
MELWAY RE. 133 J6**

**CHARGES: FULL TRESTLE \$8.00
HALF TRESTLE \$4.00
ENTRANCE FEE \$2.00**

**SELLERS ADMITTED 7:30AM
BUYERS ADMITTED 9:00AM**

MSDOS EXPLAINED

this Friday 19 July 1996 at the Club rooms

**Ian VK3BUF will talk about the ins and outs
of the Microsoft Disk Operating System.**

Watch as he trashes his new Notebook computer.

Marvel at how he deletes whole programs with a single key stroke.

Don't miss it !



Personality Profile Page



Full Name ?

Patricia Pacey

Call Sign ?

VK3OZ

Age ?

Still young enough!

When did you first join GGREC ?

Just before the Flinders Ranges Trip.

What do you like about Amateur Radio ?

Overseas contacts.

What's your favourite band ?

17 metres.

What type of antennas do you have ?

A G5RV, a 6 element Log Periodic, a Ringo & a 2 metre Quad.

How tall is your radio tower ?

About 30 feet.

What do you do for a job ?

As well as managing the home, I provide Home Care for the disabled, new mums, elderly and hospital outpatients.

Where do you do it ?

Tooradin, Canons Creek, Clyde & Cranbourne areas.

What was your first amateur rig ?

TS830F

What made you become involved in Amateur Radio ?

If you can't beat them, join them!

What's your favourite fast food ?

I can't come up with anything. (sic)

What's your favourite drink ?

White Coffee

What's the most unusual CW contact you've made ?

Roast meat envy by a baked beans eater.

As a child what did you want to be when you grew up ?

A wife and a mother.

What does your family think of Amateur Radio ?

The youngest isn't keen on the CW tones.

What rig would you buy if I gave you \$10,000.00 ?

Yaesu 1000 MP (I'll have two as they're only \$4,500.00).

What do you do when you lose your kayak paddle in the middle of Westernport Bay ?

Send SOS in CW with your hand on the side of the boat!

THE DX 'ERS OF AMALFI - Part 3

A STAR TREK short story by Ian Jackson VK3BUF

Captain Piccard and his officers materialised on a broad path that lead from the city to the adjacent forest. The path was lined on either side with townspeople who had come out to see the annual spectacle of The Hunt. They silently waved small pendants each bearing the national symbol, the four element beam antenna. As official guests of the state, they were escorted down the path to a large rotunda by the local militia in their full dress regalia and enormous peaked caps. Commander Data carried the Language translator, which would occasionally erupt with snippets of conversation from the spectators as they quietly transmitted among themselves.

'God! these visitors/aliens are ugly/low-gain.' That pale faced one looks kind of cute/strong output.'

Captain Piccard tired of the comments. 'Turn that thing off Data, save it for when we meet the President, er.. "Fred".'

They were lead up the broad steps of the rotunda where the President and his aide "Joe" awaited them. Each of the officers from the Enterprise were introduced in turn and took a seat overlooking the forest. A bank of video monitors showed other action around the rotunda, evidently linked to cameras carried by servants.

Joe turned to the guests and began to describe the proceedings. 'We have selected four fox-beast/quarry from our kennels, each renowned for its stamina and loud voice/strong signal. Like all beings on our world, these beasts talk to each other on a frequency unique to their species that we are able to detect. Ten of our nations finest trackers have come/assembled here today to track these animals through the forest. Each tracker carries a four element beam-spear equipped with a meter to show their proximity to the beasts as they communicate with each other. There is much prestige/gain to be had by the tracker who can return with the head of a foxbeast on his antenna. If the animal reaches the clearing at the far side of the forest then it is permitted to go free.'

The monitors showed increased activity of the terrified fox-beasts in their cages and of the trackers sharpening their spears and calibrating their signal strength meters. The President gestured to Joe with some silent dialogue. He had been observing the guests with a keen interest. Joe returned to Captain Piccard and the translator box spoke. 'President Fred wonders how skilful the officers of your Federation are under pressure. He insists that one of your people join the hunt.'

Piccard nodded thoughtfully and locked eyes with Commander Riker. Riker was aghast 'Captain, Sir, you can't be serious. This practice is barbaric!'

'I agree wholeheartedly number one.' He replied. 'But it must be done if we are to maintain face with these people.' He turned to his security chief. 'Lieutenant Worf, you are no doubt the most qualified for this task.'

Joe, listening to the translation, interrupted. 'No! President Fred has already made a selection/choice.' He pointed to their Engineer, Geordi. 'He is curious about this one and that strange appliance/equipment he wears over his eyes.'

'You mean his VISOR unit.' Piccard replied. 'It is simply an electronic device to replace his normal vision which was lost many years ago. Geordi, how do you feel about this?'

Ahh...sir I agree with you, the practice *is* barbaric but I am willing to give it a try. I doubt that I would catch anything, but we would loose considerable face for the Federation if we were to refuse.'

'Very well then.' Captain Piccard turned to Joe and spoke to the translator box. 'My officer accepts the challenge, he will go with you now.'

Geordi was lead to the preparation area. He was supplied with a helmet on which was mounted a camera unit, so that millions of Amalfi citizens could watch the event. Also provided was a compact four element beam antenna and signal strength indicator pre-tuned to the natural broadcast frequency of foxbeasts. At the head of the hand held antenna was a wicked looking triangular bayonet, the tip bearing the stains of previous encounters.

An amber flag was dropped, the lid of four electrostatically shielded cages were lifted. Four creatures shyly looked about and bolted for the undergrowth. Geordi was surprised at the similarity of these foxbeasts to their Terran counterparts, they bore the same pointed snout, but the bony dipole embedded in their forehead was distinct. It glowed brightly in brief pulses as the electromagnetic radiation was detected by his VISOR unit. He watched the trackers hold their antennas low and pan around for signals. Two minutes passed and a violet flag was dropped. The trackers leapt up as one and silently followed the signals into the bush. Geordi assumed this to be the start signal and trotted after them.

The forest was dense with undergrowth, but he moved quickly. He recalled some training he had at the Academy on the pursuit of enemy spacecraft. Triangulation of an enemy by taking multiple bearings was a luxury during pursuit situations, when in a single craft it was always far more prudent to move fast and chase their exhaust signature. He used this method now by following the strongest signals on the meter. After a while he noticed that he had passed to the far side of the forest and was adjacent to the cleared corridor that marked the freedom line for the beasts.

He heard some commotion nearby and watched as a group of five trackers closed in on two of the beasts from all sides. He saw a bright flash of radio energy as one of the creatures met its demise on the end of an antenna. The other made a break between the trackers and darted for freedom. Geordi was startled as the creature ran towards him. It spied him and stopped mere metres away, quivering and panting for breath. Suddenly Geordi had lost all taste for this travesty of gamesmanship. He slowly lowered his weapon to the ground, the animal followed his motions. It briefly stared straight at him, then darted past his legs for the freedom that lay beyond the clearing.

The trackers walked over with venom in their eyes. One by one they lifted their antenna-spears and pointed them at his waist. His communicator badge chirped loudly, Captain Piccards voice broke the silence. 'All hell has broken loose over here, they all saw you let the animal go and they're hopping mad!' There was a pause for a moment. 'I've just been told that as a matter of ancient Amalfi law that you must take its place...' another pause. 'This is preposterous!... They want to strap a transmitter to *you* and cast you into the forest.'

Suddenly Geordi felt very much alone.

Final episode - next month.



AUGUST 1995



PROPAGATION

Conditions are worst compared to last month. The expected Sunspot Number for September is 14,4 compared with August of 16,1

TIMETABLE:

SHORT PATH:

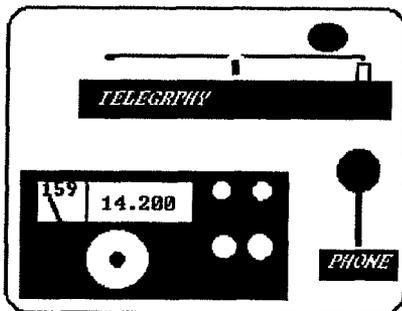
Europe: 1600-2200 UTC	40m
1500-1900 UTC	20m
2100-2400 UTC	20m
2200-0100 UTC	17m
[if lucky] 2300-0100 UTC	15m

LONG PATH:

Europe: 0300-0900 UTC	40m
0600-0900 UTC	20m
none	17m
none	15m
USA: 0500-1500 UTC	40m
0200-0900 UTC	20m
0200-0600 UTC	17m
2300-0400 UTC	15m

Africa: 1300-0100 UTC	40m
0400-0500 UTC	20m
lucky? 0400-0900 UTC	17m
Asia: 0900-2100 UTC	40m
2300-0900 UTC	20m
0100-0800 UTC	17m
0300-0600 UTC	15m [with a lot of luck]

CONTEST CALENDER



19/20. AUGUST	SAENET SSB DX CONTEST
19/20. AUGUST	KEYMAN'S CLUB OF JAPAN CW
02/03. SEPTEMBER	ALL ASIA DX PHONE CONTEST
03. SEPTEMBER	BULGARIAN DX CONTEST
03. SEPTEMBER	PANAMA ANNIVERSARY CONTEST
09/10. SEPTEMBER	WORKED ALL EUROPE PHONE CONTEST
16/17. SEPTEMBER	SAC DX CW CONTEST
23/24. SEPTEMBER	SAC DX PHONE CONTEST
23/24. SEPTEMBER	CQ WW RTTY DX CONTEST

BRAIN TEASERS?

What is the speed of light in metres per second?

What are the frequencies (in megahertz) of the following parts of the radio spectrum - VLF, LF, MF, HF, VHF, UHF, SHF?

As the frequency of a radio wave increases, is the physical size of the antenna likely to become larger or smaller?

How many cycles per second (hertz) are there in - one kilohertz, one megahertz, one gigahertz?

Which commercial television stations are closest to these amateur bands - six metre band, two metre band?

Name three different types of conductor?

Name three different types of insulator?

Name three different types of resistor?

How many ohms in 4.7K, 5.6M, 390K?

How many 1K resistors in parallel would it take to make a 50 Ohm dummy load?

When using jumper leads to jump start a car, why does it sometimes help if two sets of leads are used in parallel?

What is the total resistance of 4.7K & 220K & 39 Ohms all in series?

What is the total resistance of 10K & 10K & 10K all in parallel?

What is the total resistance of 100K & 100K both in series and in parallel with 100K & 100K both in series?

To measure the current flow in a circuit you would use: (a) an ammeter, (b) an ohmmeter, (c) a voltmeter, or (d) a power meter?

An electric soldering iron draws 500 milliamperes from a 240 volt supply. The resistance of the iron's element is: (a) 4.8 ohms, (b) 48 ohms, (c) 480 ohms, or (d) 4,800 ohms?

Which of the following formulae could be used to find the resistance of a circuit when only the power, voltage and current is known? (a) $E^2 \times I$, (b) $P \times I$, (c) $I \times E$, or (d) E / I .

When a current of 20 milliamperes flows through a resistance of 50 ohms, the voltage drop across the resistor will be: (a) 100 millivolts, (b) 10 millivolts, (c) 10 V, or (d) 1 volt?

What is the main difference between primary and secondary cells?

What is the total voltage of a five cell battery if all the cells are: (a) dry cells, (b) lead acid cells, or (c) rechargeable Nickel-cadmium cells?

With a 20 volt A.C. sine wave, what is the: (a) peak to peak voltage, (b) peak voltage, (c) average voltage, and (d) RMS voltage?

How long (in milliseconds) would it take for a 50 Hz A.C. signal to complete one cycle?

When measuring a 50 Hz A.C. voltage with a multimeter, will the meter display: (a) peak voltage, (b) RMS voltage, (c) peak to peak voltage, (d) average voltage, (e) D.C. component, or (f) smoke?

BLOW UP BLOW UP BLOW UP

*Lost your negatives?
Want to blow up
your photos?
Don't know how
to get it done?
Well help is
not far away.
If you bring us
your COLOUR
or
old B&W photographs
we can ENLARGE
it to A4 size
(app. 8"x10")
and LAMINATE
it for only \$6.00.*

*We also provide
the following services:*

- * Full Colour Photocopying
& Enlarging up to A²
(Negatives not Required).*
- * Laminating -
Business Cards to Posters.*
- * T/Shirts*
- * Jigsaws*
- * Mugs*
- * High Speed
B & W Photocopying.*
- * Fax Service.*
- * Personalised Calendars*
- * Secretarial Service*
- * Colour and B & W
Overhead Transparencies.*
- * Spiral Binding*

PHOTOART MAGIC

155 SLADEN ST. CRANBOURNE 3977

Phone: (059) 96 7411

Mobile: 015 314 051

Fax: (059) 95 2238

GENERAL MEETING 21 June 1996

Meeting Commenced 20.45.

Chairman: Ian, VK3BUF.

Minuter Taker: Ivan, VK3ARV.

Present: As per attendance sheet.

Visitors: VK3PIV.

Apologies: Peter VK3KCW, Cathie, Noel Brennan, Scott.

Correspondence: Nil

Treasurers Report: Not tabled.

Previous Minutes: Circulated in Monthly Magazine.

New Call Signs: Nil

Business Arising from Previous Minutes:

General Business:

Video Adaptor: Ian VK3BUF moved to purchase a video adaptor, seconded by Reg VK3JRG. Passed. Robin VK3TFA is looking in to prices regarding video adaptor. Doug VK3KMN to bring to next meeting more items in relation to video adaptor.

Re: Ron VK3EXJ trip - contacts can be made on 80 metres Tuesday and Thursday evenings 20.00 hours approx., also on travellers net during the day.

Guest Speaker: Mike VK3KTO will deliver a rig talk on FT2400 2 metres at the July meeting.

Next Meeting: 19th July 1996 **Meeting Closed:** 21.20.

RADIO HISTORY - According to Grolier.

Early Experimenters

The principles of radio had been demonstrated in the early 1800s by such scientists as Michael FARADAY and Joseph HENRY. They had individually developed the theory that a current flowing in one wire could induce (produce) a current in another wire that was not physically connected to the first.

Hans Christian OERSTED had shown in 1820 that a current flowing in a wire sets up a magnetic field around the wire. If the current is made to change and, in particular, made to alternate (flow back and forth), the building up and collapsing of the associated magnetic field induces a current in another conductor placed in this changing magnetic field. This principle of ELECTROMAGNETIC INDUCTION is well known in the application of the TRANSFORMER, where an iron core is used to link the magnetic field of the first wire or coil with a secondary coil. By this means voltages can be stepped up or down in value. This process is usually carried out at low frequencies of 50 or 60 Hz (Hertz, or cycles per second). Radio waves, on the other hand, consist of frequencies between 30 kHz and 300 GHz (1 GHz = 1 billion Hz).