VK4WIL

Lockyer Valley Radio and Electronic Club Inc.

The official news outlet of the lockyer Valley radio and electronics club

August 2010

WIA100 in August

- If you would to help with the event, in any way, please contact Heather VK4FKEZ Secrtary@lvrec.org
- ***Please NOTE:*** the Annual General Meeting will be held over by one month, due the event in August and will now be held on the 12th of September

If you would like to submit something for the newsletter

vk4khp@netspace.net.au is the place to send it to.

This is it folks

21st and 22nd

Our turn at the VK100WIA event

Inside this issue:

Famous amateurs 4

Club bits 2

5

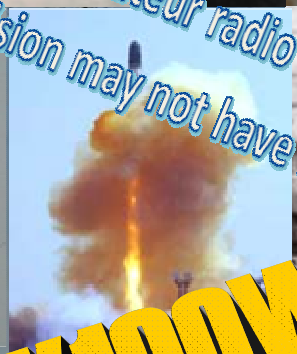
5

ATV 8

DIGITAL Modes 6

WIA 100 Event happenings

WITHOUT Amateur radio experimenters Television may not have happened



Check out page 8

VK100WIA comes to Laidley 21st and 22nd August

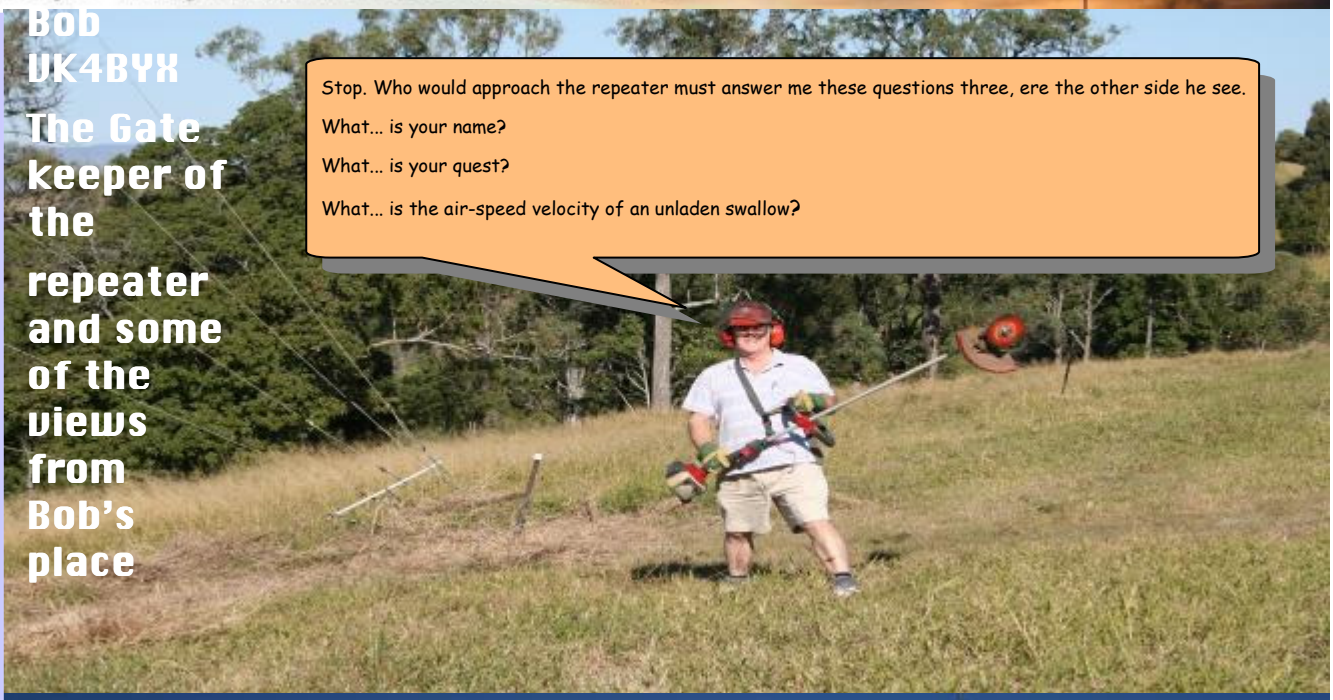
Or mobile phones or microwave ovens check out page 4

VK4WIL

Lockyer Valley Radio and Electronic Club Inc.

Bob VK4BYX

The Gate keeper of the repeater and some of the views from Bob's place



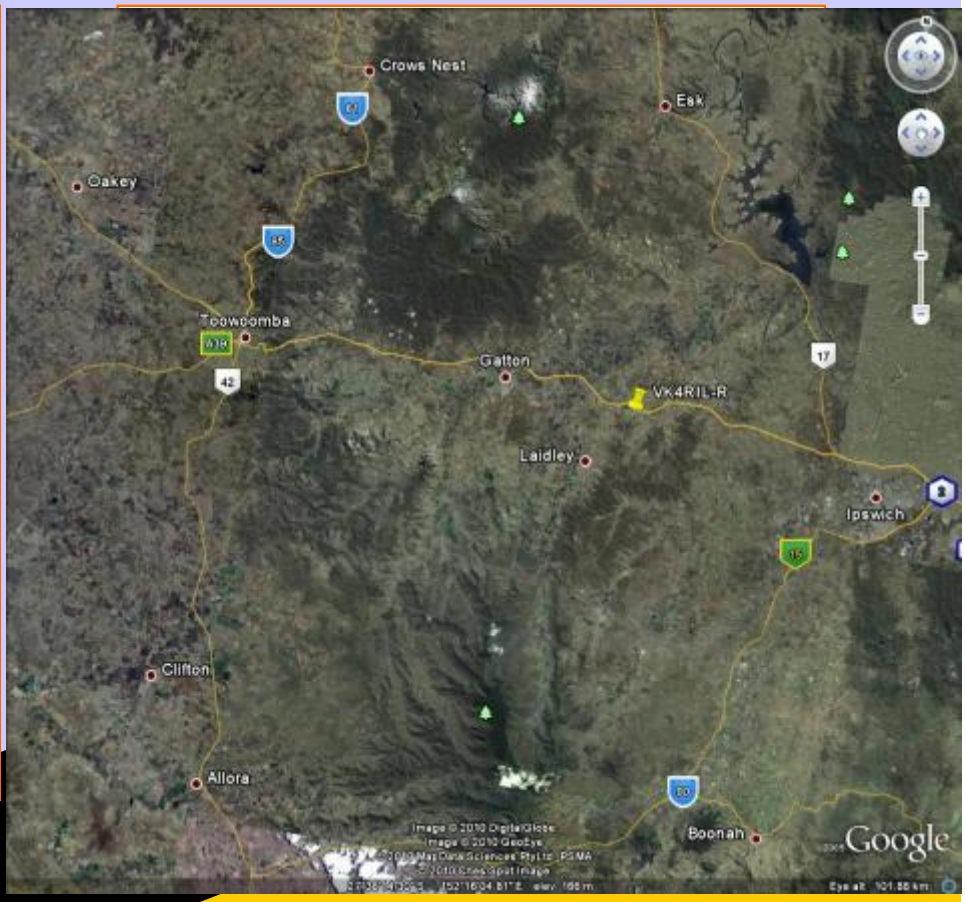
Club Details

The HF Club net : Friday nights @ 7:30 PM
On 80 meters 3570 KHz

Club meetings: 2nd Sunday of the Month at 2:00 pm
Venue: Laidley Shire Community Care Assn, Mary St Laidley

Club Repeater 147.700 MHz
Negative Off-set
Echo Link Node: 491940

www.lvrec.org



General Club bits and pieces

The repeater now appears to have settled down, and is running without any problems (*touch wood*)

I said that last newsletter

And it fell over again.

Two visits later.

We reflowed most solder joints on the PCB We assumed was the cause of the faults.

I think it may have been the crystal as when we touched the crystal . The transmitter made the same noise and dropped power.

We removed the crystal and Alan

Cleaned the legs. The socket appears a bit loose. But through the low temperatures , the repeater hasn't missed a beat.

We had a working bee at the repeater site on Saturday the 17th with bob VK4BYX, Graeme VK4KML, Alan VK4SN And Myself

Bob and Alan Attacked the area with the wiper snipers

And we set about getting some tension back into the guy ropes

We found a few issues, star pickets had rusted through. We quickly replace one and added another to a second one we found.

Checked the batteries and cleaned the solar panels.

Well it fell over again.

But Dr John has performed surgery and all is well again> Alan has finished the cavities and John is retuning them. So hopefully before the event we will have the repeater back in operation with one antenna

Can't wait.

The digital slow scan repeater will reappear for the event. And will be uploading received pictures to the clubs web site.

I have finished "Hat Cam"

It operates on 1283 MHz with around 200mW. And will hopefully be getting a work out at the event.

Graeme VK4KML has had a work out putting up posters all over Laidley, Forest Hill and Gatton and almost needs need shoes

BEST OF LIFE TO ALL
Peter VK4KHP

If you have something you would like too see in the newsletter or have an article or news item

Please send me an email to vk4khp@netspace.net.au

.

FAMOUS AMATEURS, well just a few

9K2CS Prince Yousuf Al-Sabah Royalty

CN8MH King Hassan II (Moulay Hassan) King of Morocco (SK) 24-JUL-1999 (70)

EA0JC King Juan Carlos King of Spain;

FO5GJ Marlon Brando, Jr. Actor; (pseudonym Martin Brandeaux) -(SK) 01-JUL-2004 .

HS1A Bhumiphol Adulayadej King of Thailand

HS1D Maha Chakri Sirindhorn Princess/Heiress to throne of Thailand (second-in-line)

I0FCG Francesco Cossiga former President of Italy

JI1KIT Keizo Obuchi served as the 84th Prime Minister of Japan; (SK) 14-MAY-2000

JY1 King Hussein King of Jordan; (SK) 07-FEB-1999

JY1NH Queen Noor Queen of Jordan; American-born Lisa Halaby

JY2HT former Crown Prince Hassan King Hussein's brother

JY2RZ Prince Raad The late King Hussein's cousin; Chairman of the Royal Jordan Radio Amateur Society

LU1SM Carlos Saul Menem President of Argentina (1989-1999).

SU1VN Prince Talal Saudi Arabian royalty

UA1LO Yuri Gagarin First Cosmonaut; (SK) 27-MAR-1968

VE2AHZ/ VK2AH Robert W. Lane

Also known as "Tex Morton" - Very colorful country and western singer-songwriter born in New Zealand, was well known as a performer throughout North America and Australia in the mid-20th century,

recording over 300 songs; known as the "father of Australian country music." (SK) 23-JUL-1983

VU2RG Rajiv Ghandi late Prime Minister of India; (SK) 21-MAR-1991 (47)

VU2SON Sonia Ghandi XYL of VU2RG

KA7EVD Donnie Osmond YES! This is the Donnie of "Donnie and Marie" fame. (Callsign lapsed).

N6YOS Priscilla Presley Actress. She was listed in the 1990 call book under her maiden name Beaulieu. Held two calls KC6IWA & N6YOS

KE6YGN Shari Belafonte Behrens Daughter of film great, Harry Belafonte; actress/model/photographer & author;

N6FUP Stu Cook Bass player with Creedence Clearwater Revival. Married to N6GGM.

W6DOE Clarence Leonidas "Leo" Fender Prolific musical-instrument inventor, including the legendary Tele-caster and Stratocaster Fender electric guitars. (callsign reassigned several times). (SK) 21-MAR-1991

WB6ACU Joe Walsh Guitarist/Singer/Songwriter/Eagles

K5PSG Peggy Sue Gerron-Rackham The namesake of the late Buddy Holly's 1957 "rockabilly" hit "Peggy Sue"-- Rackham went to high school with Holly and later married the drummer in his band, "The Crickets." After participating in special event station W5B she was excited enough to want to get her ham license! (ex-KE5AKW)

W4CGP Chet Atkins Singer/Composer/"Certified Guitar Picker"; (ex-WA4CZD); (SK) 30-JUN-2001

W1GBE Percy L. Spencer Inventor of the Microwave Oven (Silent Key)

WN3OQW Jim Croce Singer/Songwriter

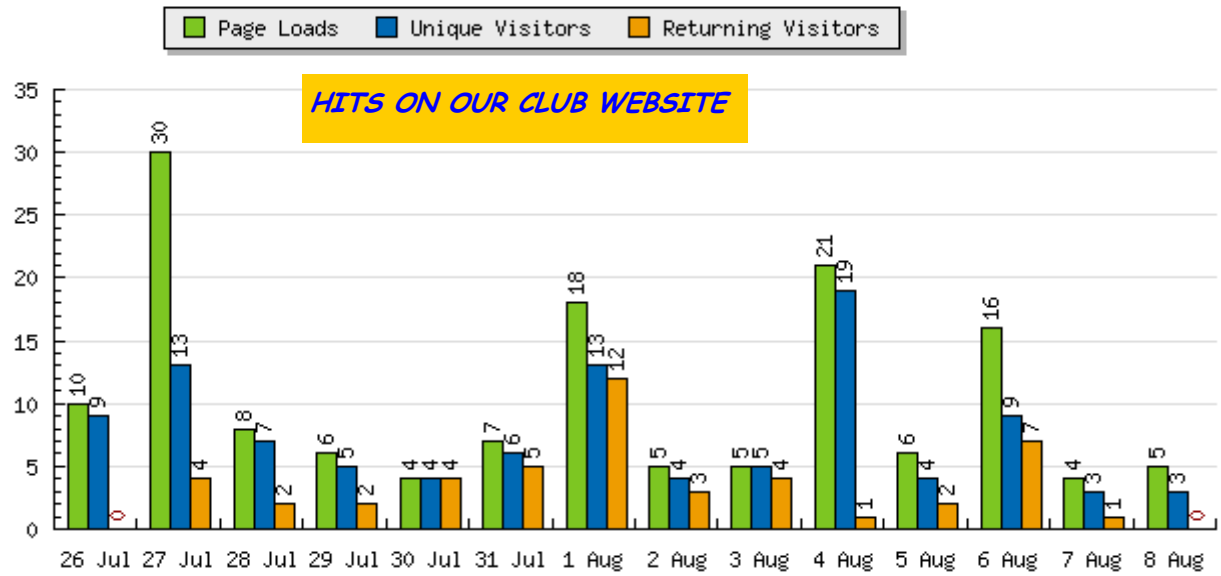
WB4KCG Ronnie Milsap Singer/Songwriter

J3BB Masaru Ibuka Founder of SONY

Next time your cooking a meal in the microwave think of

W1GBE

Percy Spencer Inventor of the Microwave Oven (Silent Key)



Here is another picture of my treated hardwood power pole. Let's not call it an antenna!

Height is 20.3 metres with about 1.8 metre mast above the pole. It sits 3.5 metres in the ground.

Rotator is an Alpha Spid Big RAK. Temporary rotator control cable enabled final testing and setting of the electronic cw and acw rotator stops.

Earth system at the power pole and at the shack needs multiple 2.4 metre ground rods and lightning protection ready for installation on antenna installation day. Yagi assembly needs to commence at least 3 or 4 days prior.

A cherry picker with a 40 m capability will be used for the antenna and coax/ rotator cable installation.

With remaining work on cabling, earth etc, it will be a very close call to have it completed by our VK100WIA weekend.

Bob McKernan

VK4BY- - - X

Digital modes

G'Day all

It's fun when some one finds a new mode,

It tends to become very addictive.

One case recently, was when Warren VK4FJ found ROS.

This is a brilliant digital mode. I think myself that it is better psk31

But I will let Warren tell you all about it

Digital Mode: ROS by José Alberto Nieto Ros

I have recently downloaded a Digital program called ROS. It is basically a weak signal program which allows for copies of signals up to a claimed -35db below the noise floor .

The first QSO on HF with ROS

The first QSO took place on the 18th of February 2010 at 20:56 from Vitoria (Spain) to Twente University in The Netherlands, covering a distance of 1,265 Km on 7.065Mhz.

Hardware and Software requirements.

- SSB transceiver connected to an antenna.
- PC with Windows™ Operating System.
- A minimum 600MHz CPU with 128MB RAM.
- Monitor with resolution 1024x768 or 1024x600
- 16 bit Sound Card.
- Interface to toggle the transmitting station's PTT.

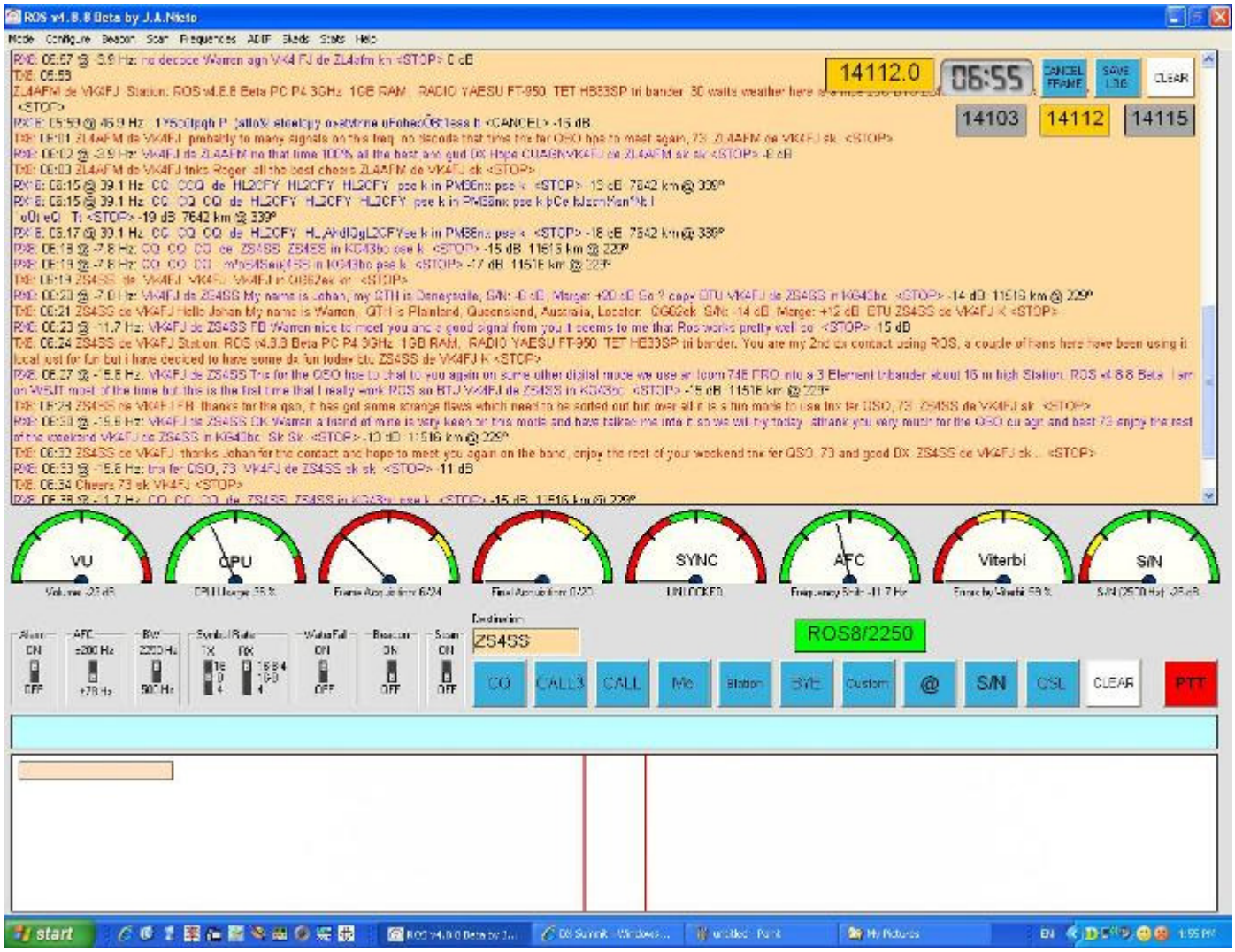
The following is a copy of 2 QSO"s using ROS in the 8 baud setting. The first is with Roger ZL4AFM and the second is with Johan ZS4SS.

You will notice that at times during the QSO with ZL4AFM, we both had failed decoding, this is because the program can only decode one signal/ station at a time. If the station you are working hears another station before they hear you it will not be able to decode your signal because it has failed to receive the required Frame acquisitions the program sends at the start of the transmission.
unlike other modes such as PSK31/ RTTY and others where you can move onto a signal and start decoding, this seems to be not possible with ROS because the program needs to get the first transmitted frames to start decoding.

TX8: 05:50 ZL4AFM de VK4FJ VK4FJVK4FJ in QG62ek kn<STOP>
RX8: 05:51 @ -3.9 Hz: CVK4FJ de ZL4AFM My name is Roger, my QTH is Auckland, New Zealand, Locator: RF73kd <STOP> -2 dB 2346 km @ 122º
RX16: 05:52 @ -23.4 Hz: HL2CFY de HL2Ktvi sig isob99 599 MtameMtE, my QTHi¾vg e0 ,U2n n de $C2YV <STOP> -16 dB
TX8: 05:52 ZL4AFM de VK4FJ in QG62ek Qsl Roger My name is Warren, QTH is Plainland, Queensland, Australia, Locator: QG62ek S/N: -16 dB, Marge: +7 dB pse k <STOP>
RX8: 05:54 @ -3.9 Hz: VK4FJ de ZL4AFM Station: ROS v4.8.8 Beta Icom 718, Ant doublet at 6 metres Weather cool here temp abt 12c psekn<STOP> -3 dB
RX16: 05:55 @ 54.7 Hz:
L2CFY de ?a MAG HL2MAG HL2MAG in PM36nx knbQ?¨ <STOP> -19 dB 7642 km @ 339º
TX8: 05:55 ZL4AFM de VK4FJ Station: ROS v4.8.8 Beta PC P4 3GHz 1GB RAM, RADIO YAESU FT-950 TET HB33SP tri bander 30 watts weather here is a nice 25C BTU ZL4AFM de VK4FJ k <STOP>
RX8: 05:57 @ -3.9 Hz: no decode Warren agn VK4 FJ de ZL4afm kn<STOP> 0 dB
TX8: 05:58
ZL4AFM de VK4FJ Station: ROS v4.8.8 Beta PC P4 3GHz 1GB RAM, RADIO YAESU FT-950 TET HB33SP tri bander 30 watts weather here is a nice 25C BTU ZL4AFM de VK4FJ k <STOP>
<STOP>
RX16: 05:59 @ 46.9 Hz: 1Y5cütpqh P)
atlo&letoelcµyo»etvtnne uFohepÕ8t1ess
lt<CANCEL> -16 dB
TX8: 06:01 ZL4AFM de VK4FJ probably to many signals on this freq no decode that time tnxfer QSO hpe to meet again, 73. ZL4AFM de VK4FJ sk<STOP>
RX8: 06:02 @ -3.9 Hz: VK4FJ de ZL4AFM no that time 100% all the best and gud DX Hope CUAGNVK4FJ de ZL4AFM sksk<STOP> -8 dB
TX8: 06:03 ZL4AFM de VK4FJ tnks Roger all the best cheers ZL4AFM de VK4FJ sk<STOP>

TX8: 06:19 ZS4SS de VK4FJ VK4FJVK4FJ in QG62ek kn<STOP>
RX8: 06:20 @ -7.8 Hz: VK4FJ de ZS4SS My name is Johan, my QTH is Deneysville, S/N: -6 dB, Marge: +20 dB So ? copy BTU VK4FJ de ZS4SS in KG43bc <STOP> -14 dB 11516 km @ 229º
TX8: 06:21 ZS4SS de VK4FJ Hello Johan My name is Warren, QTH is Plainland, Queensland, Australia, Locator: QG62ek S/N: -14 dB, Marge: +12 dB BTU ZS4SS de VK4FJ K <STOP>
RX8: 06:23 @ -11.7 Hz: VK4FJ de ZS4SS FB Warren nice to meet you and a good signal from you it seems to me that Ros works pretty well so <STOP> -15 dB
TX8: 06:24 ZS4SS de VK4FJ Station: ROS v4.8.8 Beta PC P4 3GHz 1GB RAM, RADIO YAESU FT-950 TET HB33SP tri bander. You are my 2nd dx

contact using ROS, a couple of hams here have been using it local just for fun but I have decided to have some dx fun today btu ZS4SS de VK4FJ K <STOP>
RX8: 06:27 @ -15.6 Hz: VK4FJ de ZS4SS Tnx for the QSO hpe to chat to you again on some other digital mode we use an Icom 746 PRO into a 3 Element tribander about 16 m high Station: ROS v4.8.8 Beta I am on WSJT most of the time but this is the first time that I really work ROS so BTU VK4FJ de ZS4SS in KG43bc <STOP> -15 dB 11516 km @ 229º
TX8: 06:28 ZS4SS de VK4FJ FB thanks for the qso, it has got some strange flaws which need to be sorted out but over all it is a fun mode to use tnxfer QSO, 73. ZS4SS de VK4FJ sk<STOP>
RX8: 06:30 @ -15.6 Hz: VK4FJ de ZS4SS OK Warren a friend of mine is very keen on this mode and have talked me into it so we will try today athank you very much for the QSO cu agn and best 73 enjoy the rest of the weekend VK4FJ de ZS4SS in KG43bc Sk Sk. <STOP> -13 dB 11516 km @ 229º
TX8: 06:32 ZS4SS de VK4FJ thanks Johan for the contact and hope to meet you again on the band, enjoy the rest of your weekend tnxfer QSO, 73 and good DX. ZS4SS de VK4FJ sk .. <STOP>
RX8: 06:33 @ -15.6 Hz: tnxfer QSO, 73. VK4FJ de ZS4SS sksk<STOP> -11 dB
TX8: 06:34 Cheers 73 sk VK4FJ <STOP>



The program is in continual development and you need to download the updates each time they are made to keep it operational.
Another feature of this program is the Beacon which allows you to send a beacon with whatever info in it you want and at a preset time interval. You can also include your email address in the message, which if received by another station will (if their station is setup for it) force the system to forward an email to you with their location and how well your signal was heard by them.
To hear what ROS sounds like Try this link

The program can be downloaded at

http://rosmodem.wordpress.com/

Cheers Warren VK4FJ

TV TIMES MAKES A Sentimental Journey

This week is the anniversary of Australia's first TV transmissions

1934—King Alexander of Yugoslavia was assassinated in Marseilles. Hindenburg died and Hitler was installed as Germany's chancellor. The London Conference on Disarmament failed. In Australia the UAP won the Federal elections, and Lyons formed a coalition cabinet.

In Brisbane a council spokesman was proclaiming that electricity was going to be cheaper, and the Orient Line was advertising trips to London on the Oronsay for £39.

That same year, ignoring the sceptics who said that talking pictures wouldn't last and that radio "was not proper entertainment," two men in Brisbane started Australia's first regular TV transmissions.

In the convict-built tower on Wickham Terrace which started life as a windmill and later became an observatory Thomas B. Elliott (now manager of Stanford X-Ray Ltd. on the same street) and the late Dr. Val McDowell set up test TV equipment under the auspices of the Royal Society.

Others had demonstrated closed circuit television in Australia before, but the Brisbane pioneers are recognised as having set up the first regular TV service.

Last week, TV Times made a sentimental journey to the Museum at Newstead House with Mr. Elliott to see his pioneer equipment, which is in the safe keeping of the Queensland Historical Society, and to hear the story of Brisbane's first TV station.

"We had been experimenting for about eighteen months before that day —May 6, 1934—when we gave a demonstration for members of the State and Commonwealth Governments, Government officials and the press," he recalled.

"They were astonished at the clarity of the picture, though we were only using the 30-line system."

Mr. Elliott spoke rapidly as his thoughts carried him back 27 years. Under a thatch of white hair is a mind as active and enquiring as the one which launched him on his early experiments in radio and TV.

"Technical data came from overseas experimenters. Many of the parts we had to make ourselves. A firm which specialised in neon lighting helped us with some of the special tubes. A motor mechanic helped with the complicated mirror drums used for the first system."

Visitors to Newstead house will notice how odd items, like pieces of car-tyre inner-tube and Meccano were pressed into service.

"It was makeshift, but it worked," said Mr. Elliott as he stood before the display.

"Our low definition telecasts began in 1934 with about an hour of transmission each day," he continued.

"By 1935 we were experimenting with a high definition system of 180 lines."

But for a Commonwealth order that activities should not be commercialised until such time as they thought it fit to permit such a service, the Brisbane experiments would have become more comprehensive and widespread, Mr. Elliott believes.

This photo of the convict-built tower on Wickham Terrace where early experiments in television were carried out, was taken at Ipswich on an experimental receiver which had picked up the transmission of the photo.

The station had only an output of 100 watts of vision — one thousandth of that of Brisbane's present stations—yet signals were picked up as far away as Ipswich.

A typical program would consist of test patterns, pictures of film stars, headlines from a daily newspaper, and later, short silent films.

Some of the latter are keenly remembered by Mr. Elliott — especially the Horrors of Drink, a temperance film which was used in the first transmissions.

One of Mr. Elliott's loyal viewers was Mr. W. Stephens of the Queensland Government Railways mapping office, who built a set and operated in his home at Graceville—about five miles from the observatory tower.

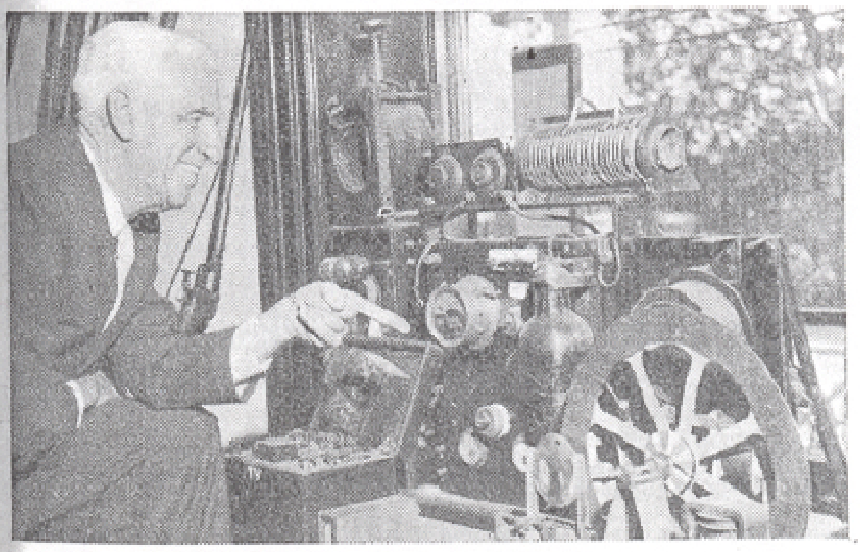
"There were a lot of disbelievers who thought we were just phonies," said Mr. Stephens today, "I can remember how the neighbours used to come in and look at the picture of a film star on that tiny screen in amazement.

"They couldn't believe pictures could be transmitted through the air."

Other receivers were operated in other parts of the city. Mr. Elliott believes there were at most eighteen sets on which his transmissions were received.

From one, at Ipswich, the photo of the observatory pictured above was taken, showing remarkable clarity for the 30-line system which was used to transmit it.

Today Mr. Elliott is still a TV fan. At home he prefers to watch news and documentary sessions, and Channel 2's 7 o'clock news and newsreel each night are his evening highlight.



At Newstead House, Brisbane, Mr. T. M. B. Elliott, Queensland television pioneer, pays a sentimental visit to see the equipment with which he started Australia's first regular TV transmissions in 1934.