

WANSARC NEWS



Incorporated in Victoria, 1985 Registration Number: A0007611S

The monthly magazine of the

Western & Northern Suburbs Amateur Radio Club Melbourne, Australia



www.wansarc.org.au



Volume No: 45

146.450 MHz FM

Issue 11

VK3AWS

November

28.470 MHz USB

2014

Next Meeting,
Friday 7th November
Doors Open 7.30pm

Ern Rose Memorial Pavilion, Seaver Grove, Reservoir



JOTA 2014 at Riddels Creek was run by Jhonno VK3FMPB again this year, full story on page 7

| | |
|--|----|
| Christmas Dinner Notice | 2 |
| News | 3 |
| Scam Shame | 5 |
| JOTA 2014 ~ Jhonno VK3FMPB | 7 |
| Single Sideband, LSB below 10MHz and USB above 10MHz, why? | 10 |
| WANSARC Club Profile | 12 |

Christmas Dinner Notice

Thursday Night, 7pm Start, 27th November



<http://www.nmit.edu.au/services/restaurants/st-georges-restaurant/>



Dear members, thanks to those that have booked for the WANSARC Christmas Dinner.

Bookings close after November club meeting and payment is now due. Bookings to Mick vk3ch@wia.org.au

You can pay online to WANSARC at;

Bank Name: Bendigo Bank

BSB Number: 633-000

Account Number: 139996052

Account Name: Western and Northern Suburbs Amateur Radio Club

Please quote your callsign and "Dinner" as the reference.

When paying by internet banking or direct deposit, please email our Treasurer, Rod, and he will confirm receipt of your payment. Alternatively, you can send us a money order or cheque made out to "Western and Northern Suburbs Amateur Radio Club" to WANSARC, PO Box 336, Reservoir VIC 3073.

Payment due by FRIDAY 7th November, payment can NOT be made on the night at St Georges, NMIT.
You can pay (cash or cheque only) at the November Club Meeting.

After this date, bookings are closed, so please act now or you will miss out!

If you have any payment enquiries please contact Rod VK3FAB at rod.tacey@gmail.com

Regards, Mick VK3CH, Christmas Dinner Co-ordinator



Menu Selections

These are the top two 50/50 placement choices received, from the online poll (*now closed*) of members, registering for the WANSARC Christmas dinner

Entree

Soup of the day

Crisp Prawn and sweet potato fritters with iceberg lettuce, Asian herbs and nuoc cham

Main Course

*Seared Salmon with broad beans, asparagus and kipfler potato with a lemon butter sauce
Turkey and Roast Vegetables*

Dessert

*Lime, mango and passionfruit Vacherin
Christmas Pudding*



UPCOMING HAMFESTS

YARRA VALLEY ARG HAMFEST SUNDAY 9 NOVEMBER

YARRA Valley Amateur Radio Group sale of second hand Radio & Electronics Equipment.

The annual Yarra Valley Amateur Radio Group Hamfest will be held on Sunday 9th of November 2014. 10am to 2pm approx.

Doors open for sellers at 8am, buyers at 10am.

Gary Cooper pavilion, Anzac Ave, Yarra Glen. Ample parking.

Free tea & coffee, \$5 entry fee. Food and drinks available.

BALLARAT HAMVENTION SUNDAY 19 OCTOBER

The Ballarat Amateur Radio Group will hold their annual Hamvention on Sunday 19th October.

Location, Ballarat Greyhound Racing Club in Rubicon St, Redan, Ballarat. Starts 10.00am and finish around 1pm

For info www.barg.org.au or email hamvention2014@barg.org.au

SOUTHERN PENINSULA ARC HAMFEST SUNDAY 30 NOVEMBER

Australia's best hamfest at Rosebud on the Mornington Peninsula, Displays, talks, Prizes, Demos, Exhibits, New/pre-loved gear sales, Talk in, Special Guests, Emergency services Communications, WICEN, ALARA, Clubs, help for new operators. Fully catered at excellent prices, plenty of free on-site parking and all housed at the best venue in Australia. More info, look up the club on the WIA site or contact Mark VK3PDG markybradio@gmail.com



WIA SUMMER VHF-UHF FIELD DAY 2014

Saturday 23rd & Sunday 24th
NOVEMBER

More details on WIA Website

<http://www.wia.org.au/members/contests/vhfuhf/>

SENSE OF SMELL MAY PREDICT LONGEVITY

Researchers in the US have found that olfactory dysfunction was better at predicting mortality than a diagnosis of heart failure, cancer or lung disease. Researchers in the US have found that olfactory dysfunction was better at predicting mortality than a diagnosis of heart failure, cancer or lung disease.

Smelly socks have never seemed so life-affirming. According to a study published in scientific journal PLOS One, olfactory

dysfunction - a weakening sense of smell - is a strikingly good indicator of imminent death.

No, a bad sense of smell isn't fatal - and it probably isn't the symptom of some insidious illness. But based on this new study, it seems that our noses may act as canaries in the coalmines of our bodies. When things are amiss, and systems are shutting down, our sense of smell might be one of the best outward indicators, the researchers suggest.

Researchers in the US tested a nationally representative sample of 3005 men and women aged 57 to 85 on their ability to identify five smells: rose, leather, orange, fish and peppermint. The study appears online in PLOS One. They controlled for many factors - age, sex, socioeconomic status, smoking, alcohol intake, education, body mass index, race, hypertension, diabetes, heart attack, emphysema, stroke and diet. Five years later, the researchers found that 430 of the original participants had died.

Thirty-nine per cent of study subjects who failed a simple smelling test died within five years, compared with 19 per cent of those with moderate smell loss and just 10 per cent of those with a healthy sense of smell, PLOS One reported.

Even when they adjusted their analysis to control for age, gender, socioeconomic status, race, and overall health, they found that those with mild to severe smell loss were more likely to die.

"We think loss of the sense of smell is like the canary in the coalmine," said the study's lead author Jayant Pinto, an associate professor of surgery at the University of Chicago.

"It doesn't directly cause death, but it's a harbinger, an early warning, that something has gone badly wrong, that damage has been done.

"Our findings could provide a useful clinical test, a quick and inexpensive way to identify patients most at risk."

Australian olfactory expert, James St John from Griffith University, told ABC radio's PM program that he thought the study drew some very interesting conclusions.

"It certainly says that the sense of smell is an early warning system. If you've got something wrong with it and you can't find a reason, that might suggest there's something else wrong with you."

He said the results might prompt people to think more about smell as a measure of health.

"We don't really think about the sense of smell as an indicator very much. I mean, [if] you lose your sight, you'd go to the doctor pretty much instantaneously. Hearing, too."

It is true that there are some instances in which a weakened sense of smell could contribute to the risk of death. A decreased sense of smell leads to loss of appetite, which could be dangerous in someone whose health is on the decline. A poor sense of smell also leaves the elderly vulnerable to risks such as gas leaks.

But because this study did not track down the exact cause of death of each individual, the researchers cannot make these kind of connections. And it's more likely that the subjects' sense of smell was just an indicator of declining health.

Researchers said olfactory dysfunction was better at predicting mortality than a diagnosis of heart failure, cancer or lung disease.

Dr St John said he hoped people would start taking more notice of their olfactory senses in Australia.

"It's one of the more minor of the senses and we notice it most when we have a very bad nasal infection, a cold, we get a blocked nose. "Maybe now, people should start thinking a bit more about it because it [could indicate] if you have a permanent loss or ongoing loss, that there's something else wrong with you."

Professor Pinto said he hoped the findings would cause people to rethink just how important their sense of smell is, especially since testing for olfactory loss is simple and cheap.

"Sense of smell is an under-appreciated sense," he said. "It's not something that's in the medical consciousness or even the public consciousness."

~Internet

EMDR FOUNDATION COURSE

The next EMDR Foundation course will be held on the weekend of 15 & 16 November, please email to register your interest.

<http://www.emdr.com.au/foundations/>

ANYWHERE THE WIND BLOWS

The PS-22 Pico balloon launched on Saturday October the 4th from Victoria by Andy VK3YT was tracked during its flight.

The solar powered small metalised party-type balloon VK3YT-9 had a 10mW transmitter on board and gave a good signal throughout the flight.

One tracker followed it through Victoria and then into New South Wales hearing it close to Wollongong only at 2000 metres high and travelling at 14km per hour.

Andy VK3YT says PS-22 came down near Exeter in the Southern Highland area, short of its intended path to Queensland.

A similar balloon in the series left Victoria earlier this year was heard over Brazil in South America. ~WIA

FREE GREY LINE SOFTWARE

Simon Brown, G4ELI has released a simple Windows program which displays Gray-line, Geomagnetic Indices, Solar Data as well as Sunrise and Sunset times. The program is free of cost and can be downloaded at tinyurl.com/G4ELI-gray-line

An appeal is when you ask one court to show its contempt for another court.

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www.glasbergen.com



"THE COMPUTER SAYS I NEED TO UPGRADE MY BRAIN TO BE COMPATIBLE WITH ITS NEW SOFTWARE."



Heavy Metals

I HATE IT WHEN
THE VOICES IN MY HEAD
GO SILENT...

I NEVER KNOW WHAT THEY
ARE PLANNING.

DON'T ARGUE WITH AN IDIOT.

He'll drag you down to his level
and beat you with experience.

Do Not Disturb

I'm already disturbed enough as it is...

Scam Shame

Put my IC-8500 Communication Scanning Receiver up for sale on VK Ham last month.

After dropping the price incrementally, as you do, I finally got a bite; little did I know at the time, the offer was not genuine.

The first email went,

Hi there, I'd like to know the final price and the present condition of this please. Do get back soon at my email [REDACTED]@gmail.com. Thanks a bunch, Curtis

Thinking I had a buyer I knocked \$200 off the price and told him it was still available.

I took some photos of it and sent them as well. Within minutes this email arrived, (unedited, copied exactly as received), Notice how the email is very generic, not mentioning either my name or the item being enquired of.

Alright,

I am very keen. How i wish i could come for viewing and inspection as am currently oversea (China) at the moment as I have just been transferred from work. Due to my inability to make a bank deposit,I would be paying via PayPal which is safer for me. Kindly send me a paypal payment invoice or create an account at www.paypal.com if you dont have one.Or I can also transfer money from my PayPal account to your bank account.All i need for that is your bank details i.e bank name,account holder's name,account number and bsb so i can proceed with payment.I will make a concrete pick up arrangement with my transport agent who will be coming over for pick up once you receive full payment into your account.Have a nice day. Few more photos will be appreciated as well and I am pleased with the Price.

I'd like to know certain things too

Are you the first owner?

What is your reason for selling it?

I'm sorry, just want to be sure about the sale before I proceed.

Curtis

Notice how his email is still not specific about the item. I then told him I did not have a PayPal account, but could make one.

I also told him I had bought an SDR radio, hence the sale of the scanner. I included a shack photo with both the scanner and SDR visible on the desk. I also answered that I was the original owner. I even gave the contact details for Ross of Strictly Ham.

He replied...

Thanks. Please send me the bank details so I can transfer the \$1200 from my paypal to your bank immediately. Thanks Curtis

Note that he has quoted \$1200 instead of my offer of \$1000, my first red flag, unless it was a typo on his account.

I then made up a PayPal account and sent him the PayPal invoice for \$1000, he said he would arrange pickup by a "local agent".

I emailed to him,

Hi Curtis,

To save concern for you I have made a PayPal account.

I have sent my Invoice which is 0001 to your email.

I will collect the box and take the IC-8500 from the table today.

I will email when it is ready for collection.

Person collecting can either come to my home, or work, but must phone me before hand so I can be about for them to collect.

They can use my mobile to arrange a place and time, which is 0434 149 045.

The address on the PayPal invoice is my work address.

Regards,

Mick

I then got this email apparently from PayPal, (hyperlinks removed by me)

You have received a PayPal Payment of \$1,850.00 AUD from Curtis Darrell [REDACTED]@gmail.com

A temporary hold has been placed on this transaction!

As mentioned in the receipt of Payment and as per New PayPal Payment policy, we have fully debited the total amount (above) from the buyer's account which includes the buyer's shipper's pick up fees.

In order to complete this transaction and get the funds approved in your account. We advice you go to nearest **Western Union Office**, and send the \$850.00 AUD to the Agent and send us a Scanned Copy/Photograph of your Western Union Transaction Receipt (in .JPG Format).

NOTE: This is important as a security measure to ensure safety of this transaction.

Please, find below the name and address of the Transport Agent where the Funds would be sent via **Western Union Money Transfer**.

| |
|---|
| NOTE THESE DETAILS (NAME & ADDRESS) NOT PUBLISHED HERE, BUT WAS A FICTICIOUS CHINESE AGENT - Editor |
|---|

Payment Details

Merchandise Amount: \$1,000.00 AUD
Transport Charges: \$ 850.00 AUD
Taxes and Insurance: -----
Total: \$1,850.00 AUD
Transaction ID: OTR88725KA368321T
Quantity:
MERCHANDISE Title: Merchandise

NOTE: This is to confirm to you that the said amount has been successfully transferred by the Sender and been deducted from his Account which is ready to be credited into your account, been that this Payment has been subjected to be a Payment for an MERCHANDISE purchased from you, we reserve the right to make sure this transaction is safe and secured also to verify the legitimacy level on this transaction because of the high sum of funds involved. The above sum has Included the transport charges and taxes as we and the Transport Company quoted for the buyer (as per PayPal MERCHANDISE PAYMENT POLICY). You will receive a Message from the PayPal Customer Verification Department Shortly informing you on how to send the Transport fares and taxes to the transport company with the above details as soon as possible.

Wow, the alarm bells were ringing so loud my ears hurt! But wait, even more "prodding" to come...!
Note also the generic text, no mention of the scanner or what is being, or has been purchased at any stage since contacting me.
His reply, I wonder how he "knows" that I should have got confirmation emails from PayPal. (not edited, text as received),

Hi Again,

This is just to get you informed that i have finished sending the payment through paypal and i know you should have received the confirmation messages from paypal by now so make sure you check your inbox and junk message folder for the confirmation email cos i have received the receipt here and the money has been completely removed from my paypal account. According to paypal's instructions, I have added extra \$850 to take care of the bills so mail me immediately you receive the confirmation.

Thanks for the business.

P.S Check your junk/spam folder if you dont have paypal's email in your inbox cos it sometimes filters in there. Get back as soon as possible. Curtis

But then a minute later, the last bit of proof I required knowing I had a time waster on my hands... (sent from a Gmail account!!!)

This message is for your own interest in order to avoid enormous sending charges while transferring the shipper's fees. For your own security and to reduce the western union charges, we strongly advice you to not disclose details of your transaction to anyone, particularly the western union agent. If asked what the money being transferred is meant for, just simply state that it is for personal reasons or family abroad because if you disclose that this payment is for transport or a transaction being conducted, it will attract unusual charges or taxes but if you simply state as instructed, the sending charges will be greatly reduced. At PayPal, our duty is to make you experience a strong sense of security you have never experienced with any other payment organization in the past so we advise you to strongly heed to our guidelines for your own safety.

Kindly confirm that you receive this message so that we can be sure you are up to date.

Thank you for using PayPal, The PayPal Team

Wow, \$850 in "bills" for a transaction of \$1000, makes a booking fee for a concert or movie ticket look cheap!!
I decided to take a look at the scams warnings on VK Ham, the 4th scam down was mine, and even the text was EXACTLY the same!

This is the text of a scam email responding to adverts doing the rounds lately pretending to be a VK3 operator:

"Alright,
I am very keen. How i wish i could come for viewing and inspection as am currently oversea (China) at the moment as I have just been transferred from work. Due to my inability to make a bank deposit,I would be paying via PayPal which is safer for me. Kindly send me a paypal payment invoice or create an account at www.paypal.com if you dont have one.Or I can also transfer money from my PayPal account to your bank account.All i need for that is your bank details i.e bank name,account holder's name,account number and bsb so i can proceed with payment.I will make a concrete pick up arrangement with my transport agent who will be coming over for pick up once you receive full payment into your account.Have a nice day. Few more photos will be appreciated as well and I am pleased with the Price.
I'd like to know certain things too
Are you the first owner?
What is your reason for selling it?
I'm sorry, just want to be sure about the sale before I proceed."

After accepting the deal you are email, supposedly from Paypal that you will need to send money via Western Union to Paypal (???? huh?) as proof of who you are and then they will credit you the money! Stupid in the extreme!

As usual you should get some verifiable form of contact of the person you are dealing with.

Please be very cautious dealing with anyone claiming to use "agents" or courier companies to pickup your items after payment is received. In a lot of cases they will pay you via Paypal and then cancel/retract the payment as soon as you advise item is sent. Beware.

cheers....Allan VK2CA

A few hours later I logged onto my Pay Pal account of \$0.00 AUD, no surprise really. This pest made me waste an hour of my time... I emailed Curtis back, telling him that he was a scammer and a few other words I will not mention here....! He did not reply.
So, a warning to you all, worst of all I thought I had a sale.

NOTE – Scamming is a problem everywhere, THIS IS NOT A SLUR ON VKHAM

~Mick VK3CH

(This was presented as a PowerPoint slideshow at the last club meeting in October)

JOTA 2014 ~ Jhonno VK3FMPB

It's on again, its fun and I love the drive and set up. I also love 450 metres of elevation. I got an email from Wendy one of the co coordinators a week prior telling me that Ian would not be there and asking if I could run the show on my own.

Could I? Easy I thought, how hard is it to control groups of about 5-10 kids at a time. Me, against 10 and at times 15 kids? No problems.

Ya reckon? The noise of the chatter was amazing, but it wasn't uncontrolled, they were nice kids.

I set up HF and VHF but not a peep was heard on 146.450, except for Mick 3CH going about his business in his car on Saturday morning.

HF was better though. First cab off the rank was a ZL1 then a few VKs. We all listened to a few US stations so I knew the dipole was working ok. Don't ya just love 450 metres elevation?

The bands were alive with people from other JOTA stations.

We Rxed heaps of VK3s and a few VK5s and VK7s and others.



Good thing about that was the interstate stations were coming in as good as the locals. I got a VK5 JOTA station. VHF came alive and we got the JOTA station in Kyneton and a few more, but still nothing on 146.450 which hit me a sad. As the day went on the kids were talking to other JOTA stations including One in S.A. and reading from that prepared script just a little less each time. You know stuff like "Do you have any pets?" "What are your hobbies?" "How long have you been in Scouts?" "What troop are you from and general questions like that. Most of the kids loved holding a microphone in their hands and only a few shied away from it. After a little while, they found another JOTA station and were talking and rotating the microphone no problems all on their own. We Mainly used HF around 7.090-7.100

So it was all working well. David, a scout leader was telling me that someone had donated a 10 metre high mast and it would be set up just next to the building. Can't wait for that to happen.

Then my head started hurting and I had to go home to rest for a while but apparently the radio did not get a rest. There are a couple of hams in the scouts now and they supervised the kids while I was gone. I sure would love to eliminate the script and have the kids talking to each other like normal kids do, but that will come as they grow more confident in their radio skills and mature a bit.



Sunday was a much quieter day. The kids were finishing off their activities and not too many came to the radio or JOTA station. The radio was the JOTA station. I Put out a few calls on VHF but, to no avail.



We spent the last few hours cleaning up. Chairs, tables, floor, kitchen etc all the usual stuff. I was offered a certificate but my head wasn't the best so I just went home. A fun weekend was had by all I'd say including me. Can't wait for next year. Lastly, I think that we as a club could consider the scout camp for a John Moyle or something like that. We have room and height. I think it's worth considering.





THE ORIGINS OF JOTA

JOTA annual event is in its 57th year. About 1.5 million Scouts and guides gather on air and online to exchange ideas and learn about each other. Les Mitchell, Radio Call-Sign G3BHK, the founding father of the Jamboree On The Air (JOTA), passed away on October 6th after a few months of illness.

Les started JOTA in 1958, after launching the idea at the World Scout Jamboree a year earlier. The Jamboree had an Amateur Radio station on board for the very first time, and there has been one ever since at jamborees.

Les said in a speech he made in 1968 that he, like most Scouts, had little opportunity to experience international scouting, and that he had his first experience of international scouting when the navy posted him to the USA and later in Australia, where he continued his involvement with Scouts.

Les said that after the war, on coming back home again, he found that the Navy had hammered enough radio into him to enable him to apply straight away for an amateur transmitting licence, so when the end of the War arrived, there he was as a Radio Amateur with a very good taste of International Scouting.

Les said he tried many, many years after the War to get Scouts interested in Radio, and to get the Movement as a whole interested but without success until the 1957 Jamboree at Sutton Park, when one of the finest Amateur Radio Stations was established in the Jamboree area. Les got to thinking about how Scouts could embrace Amateur radio, and called a meeting of overseas Scout Radio Amateurs (of which there was quite a number attending the Jamboree). This group met every morning just outside the gates of the Jamboree site, at a little cafe where they enjoyed a cup of coffee.

Whilst at one of these meetings, the idea arose almost spontaneously – Why don't we have a day each year when the chaps around that particular cafe table should contact each other on the air? Immediately they said 'Come along Les, YOU organise it!' The rest, as they say, is history.

Les said "The point I would like to make is that the great attraction for this event for me has been the fact that other Scouts like myself, who were never really top class Scouts would get the chance of making International contacts and chatting, in fact, the boy who joined the Movement only last week can have a chance to chat to someone a long way away and get the thrill of chatting to an overseas Scout, at very little cost. JOTA is one way of making international contacts at very little cost to the boy and the Movement, and with great enjoyment to the people who take part."

With the 57th JOTA complete, we remember Les Mitchell, G3BHK, the founder of Jamboree On The Air, now a silent key.

~Jhonno VK3FMPB

Single Sideband, LSB below 10MHz and USB above 10MHz, why?

It is customary to use lower-sideband below 10MHz and upper-side band above 10MHz when operating single-sideband HF. Ever wondered how we got to such a standard instead of just picking one or the other for all bands.

To further complicate it for new hams, it seems that RTTY operators use lower-sideband everywhere and PSK operators use upper-sideband everywhere.

The first U.S. patent for SSB modulation was applied for on December 1, 1915 by John Renshaw Carson.

The U.S. Navy experimented with SSB over its radio circuits before World War I.

SSB first entered commercial service on January 7, 1927 on the longwave transatlantic public radiotelephone circuit between New York and London. The high power SSB transmitters were located at Rocky Point, New York and Rugby, England.

The receivers were in very quiet locations in Houlton, Maine and Cupar Scotland.

SSB was also used over long distance telephone lines, as part of a technique known as frequency-division multiplexing (FDM).

FDM was pioneered by telephone companies in the 1930s.

This enabled many voice channels to be sent down a single physical circuit, for example in L-carrier.

SSB allowed channels to be spaced (usually) just 4,000 Hz apart, while offering a speech bandwidth of nominally 300–3,400 Hz.

Amateur radio operators began serious experimentation with SSB after World War II.

The Strategic Air Command established SSB as the radio standard for its aircraft in 1957.

It has become a de facto standard for long-distance voice radio transmissions since then.

The changing of ISB sideband positions at 10 MHz actually has an engineering background.

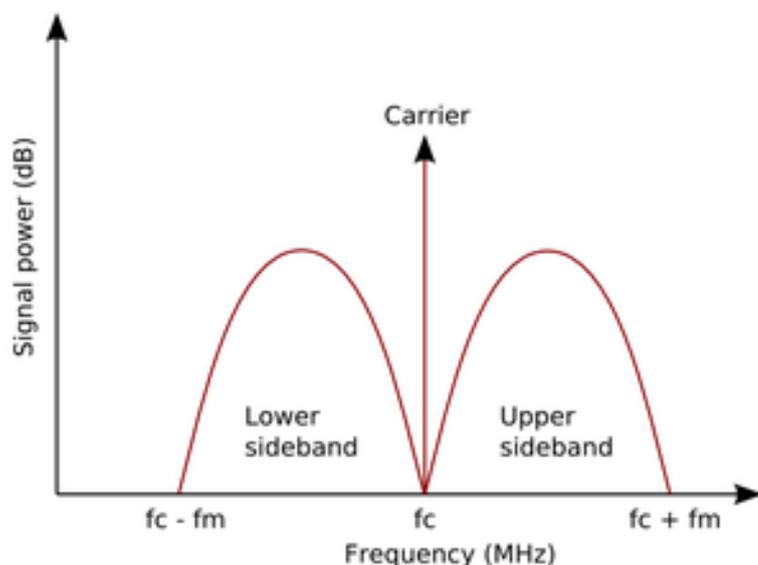
In the earliest ISB exciters, it was found appropriate to change the final mixer scheme from subtraction to addition mixing at around 10 MHz due to spurious suppression concerns. This sometimes caused interoperability problems in international point-to-point ISB circuits.

To overcome this, a practice was formalized in 1959 by the ITU/CCIR as the Recommendation 249, which prescribed that the ISB sideband positions could either automatically or manually be interchanged when the output frequency went through 10 MHz.

An often quoted reference where ISB exciter design considerations are handled with German thoroughness is W Kleische:

"Fernbedienbarer Steuervorsatz für Kurzwellen-Nachrichtensender" in "Telefunken-Zeitung" December 1962.

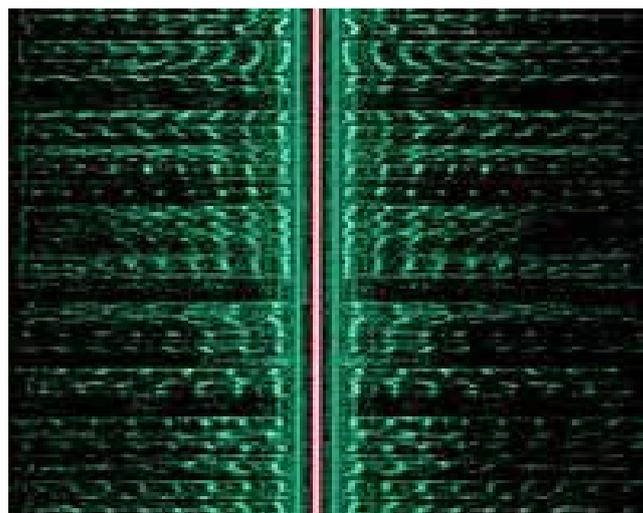
Later advances in exciter design made this Recommendation obsolete, and later generations of exciters only had this facility as an option, and current production ISB equipment lacks it entirely.



The power of an AM signal plotted against frequency

Key: f_c is the carrier frequency,

f_m is the maximum modulation frequency



Sidebands are evident in this spectrogram of an AM broadcast (The carrier is highlighted in red, the two mirrored audio spectra (green) are the lower and upper sideband)

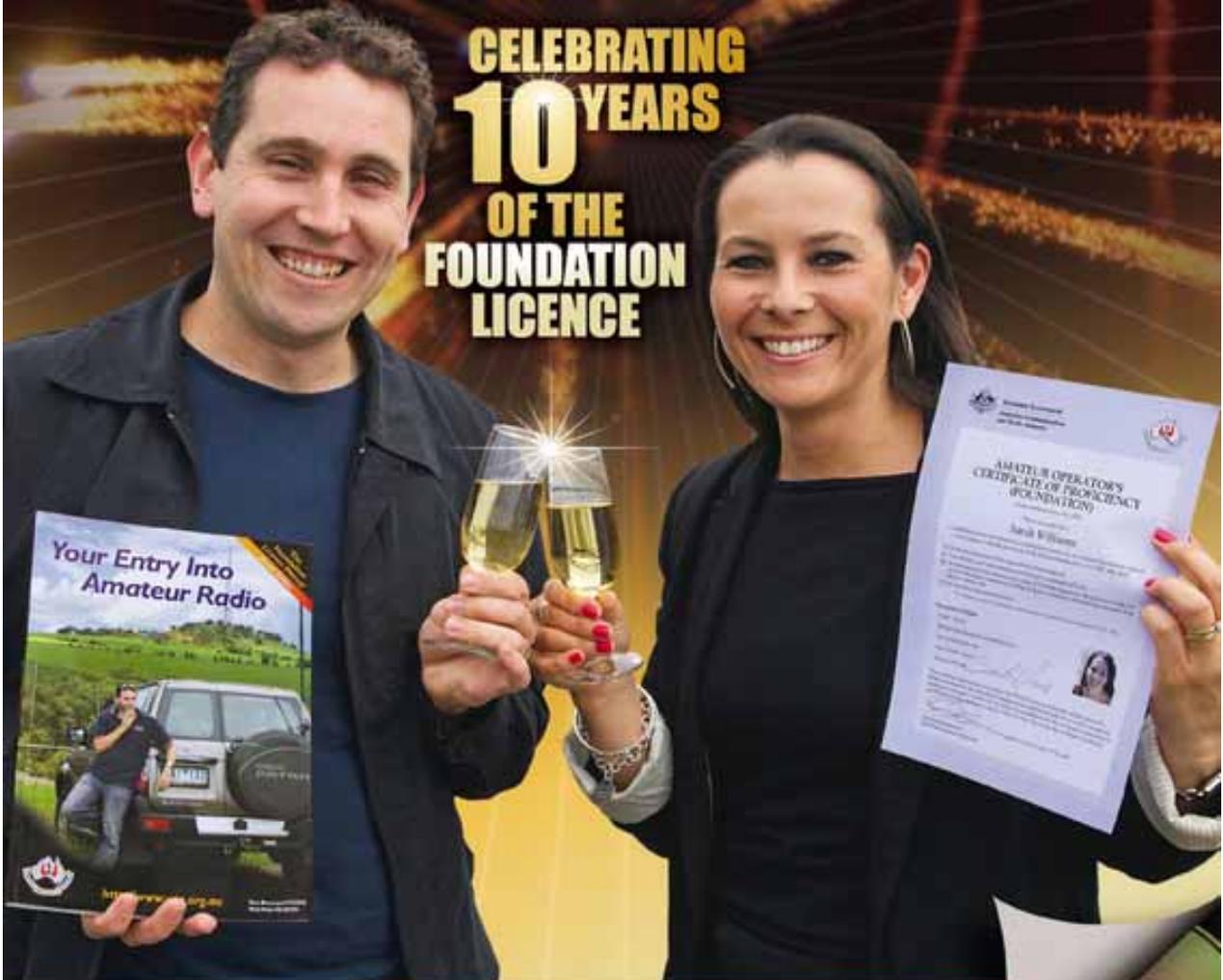
So while modern equipment does not suffer from the limitations of early gear SSB generation, old traditions are here to stay.

~Mick VK3CH



Wireless Institute of Australia
2015 Callbook

CELEBRATING
10 YEARS
OF THE
FOUNDATION
LICENCE



- Includes **Searchable CD** containing:
- The complete 2015 Australian Callbook • Amateur Radio Magazine 2013 editions
 - Repeater and Beacon Listings • Vision Impaired Version • NZART Callbook



The Wireless Institute of Australia

The 2015 WIA Callbook is now available for purchase. Orders can be placed via the "WIA Publications" category of the online bookshop. WIA affiliated clubs are invited to purchase the Callbook in bulk for sale at Club functions, Hamfests etc. Full boxes of 20 books are free of delivery charges! The downloadable order form is available on the WIA website.

WANSARC NET

Tuesday Night
8pm Check In

VK3AWS

146.450MHz FM Simplex

WANSARC VK3AWS

PRESIDENT: Frank Petrowitz
SECRETARY: John Karr

VK3OP
VK3FMPB

vk3op@hotmail.com
johnkarr@bigpond.net.au

All correspondence to be addressed to the **SECRETARY: PO Box 336, RESERVOIR 3073**

WANSARC CLUB PROFILE

History

The Western and Northern Suburbs Amateur Radio Club (**WANSARC**) was first formed in 1969 and since then has served the needs and interests of amateur radio operators, short wave listeners and those interested in hobby radio and electronics. The club is not gender specific, having both female and male members. Members come from all walks of life with a mix of experience, young and mature, novice and technical. The most important aspect of the club is the willingness of all members to share their knowledge for the benefit of others. Members mainly reside in the west and north of Melbourne; however membership is encouraged from all interested. **WANSARC** is an affiliated club of **The Wireless Institute of Australia**.

Meetings

Meetings held at the **Ern Rose Memorial Pavilion, SEAVER GROVE, RESERVOIR** (Melway Map 18 D5) on the **1st Friday of each month** (excluding January) commencing at **7.30pm local time**. Talk in on **146.450MHz FM**—call club station **VK3AWS**.

Benefits

Free technology and related presentations, sponsored construction activities, discounted (and sometimes free) equipment, network of likeminded radio and electronics enthusiasts, excellent club facilities and environment plus an informative monthly newsletter for members to post articles, news, classifieds for all radio, test equipment, etc, featuring Amateur Radio news from WANSARC, ARV, WIA, ACMA, Melbourne Clubs, VK and Worldwide.

Club Nets

146.450MHz FM each Tuesday evening commencing **8.00pm local time**. Net Control Station - **VK3AWS**

Website: www.wansarc.org.au

Postal: **WANSARC PO Box 336 RESERVOIR 3073**

A proud tradition of supporting hobby radio and electronics enthusiasts since 1969

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