



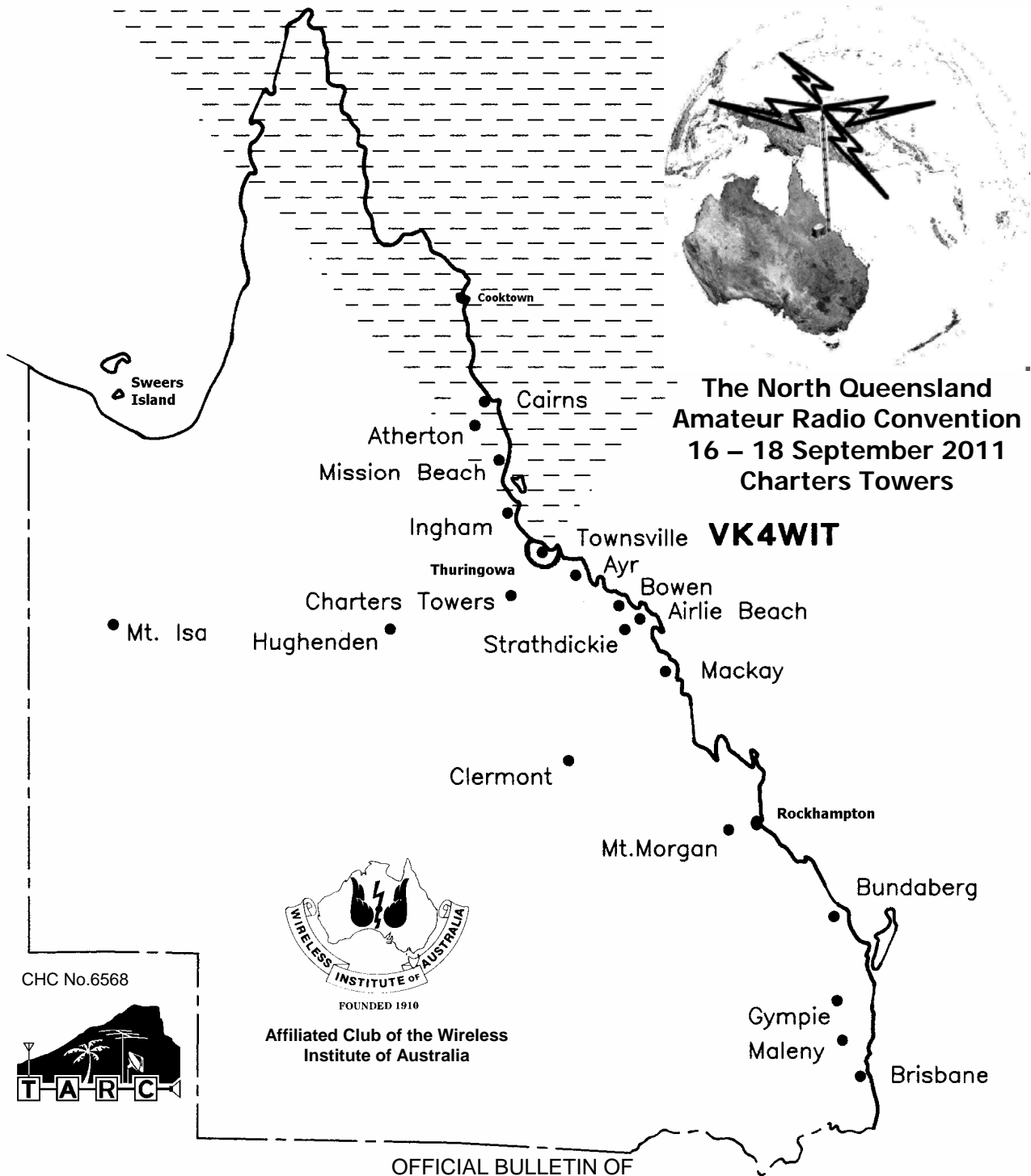
SISTER CLUB
BY4RSA NANJING

WICEN
The Amateur Radio
Communications group for
EMERGENCIES



BACK - SCATTER

THE MAGAZINE OF RENOWN - SINCE JANUARY 1969



CHC No.6568



Affiliated Club of the Wireless
Institute of Australia

THE TOWNSVILLE AMATEUR RADIO CLUB INC.

P.O. Box 333, Garbutt East, QLD. 4814.

VK4WIT - VK4ATV - VK4RAT - VK4RTL

SPECIAL EDITION for 20TH NORTH QUEENSLAND AMATEUR RADIO CONVENTION 2011



BACK-SCATTER is the official bulletin of The Townsville Amateur Radio Club Inc. with QTH upstairs at S.E.S. Headquarters, Green St., West End, Townsville.
 POSTAL address is: **P.O. Box 333 Garbutt East, QLD 4814.**
 Voice Contact Phone: **(07) 4773 1196**
 Full membership \$30 p.a., Seniors, Student, Pension & Remote Member (more than 200km from Townsville) \$15 p.a.
 Subs can be paid in person, via mail with cheque or via Internet Direct Transfer. Details for direct transfer -
 Account Name - Townsville Amateur Radio Club Inc. Bank - Commonwealth
 BSB 064817 Account Number 00904117 Reference (your surname or callsign)
 - email Treasurer with details as well, otherwise your payment might be missed !

Note that except where stated, the opinions expressed herein may not be the official opinion of the TARCinc.

homepage = <http://www.tarc.org.au>
 e-mail = vk4wi@tarc.org.au
 Facebook Search = [townsville amateur radio club](https://www.facebook.com/townsvilleamateurradioclub)

President **Richard Goodhew** **VK4FRJG**
 phone - 0400 339543 richardgoodhew@bigpond.com
Secretary **Eldon Bryant** **VK4FNQA**
 phone - 4755 4510 h vk4fnqa@wia.org.au
Treasurer **Joan McDonell** **VK4FTVL**
 phone - 4751 5261 h coljoan@bigpond.com
Editor **Gavin Reibelt** **VK4ZZ**
 phone- 4779 1161 or 0427 182469 vk4zz@wia.org.au

Local Nets - some TARCadians participate in these nets

WIA News Net - each Sunday morning on VK4RAT 2m repeater at 9am to transmit WIA National and QNEWS followed by a callback session.

North Queensland Net - Sunday evenings at 7-30pm on 3605.4 kHz and relayed on the VK4RAT 2m repeater from 8pm. VK4WIT net control.

Ann Renton Memorial Ladies Net - Fourth Tuesday of the Month from 7-30pm VK4RAT VHF repeater. XYL's and YL's especially welcome.

GNARLY Net - All the Morse and Talk you can eat before breakfast - on 3600kHz, Morse starts 5-30am, Voice starts about 6-30am

Friendly Afternoon Net - Make your Radio Shack a Happy place - on 7115kHz from 4-00pm every afternoon.



WICEN North Queensland Group

- Co-ordinator 2011 Gavin "og" Reibelt VK4ZZ

0427 182469

or email vk4zz@netspace.net.au

Emergency listening frequencies during activation 7075 kHz and 3605.4 kHz

VK4RWI Portable Repeaters (when active)

2m 147.150 MHz OUT, 147.750 MHz IN

70cm 438.625 MHz OUT, 433.625 MHz IN

Frequencies to use when Repeaters are down - 146.5 and 439MHz

WICEN QLD State-wide net Sunday morning at 0830K on 7075 kHz.

Forward your WICEN info form to Gavin - Right Now !!



WIA/TARC Exam Service North Queensland

Assessments for all levels of Amateur Radio Licensing

Ray Schinkel VK4NET (07) 47234351

or email ray_wendy7@bigpond.com for info and bookings

- if Ray has gone wandering then ring the TARC contact nr. shown above.



IRLP Node 6444

Gateway to the world via the VK4RAT UHF Voice Repeater 438.225MHz from North Queensland.

IRLP Master Rob Male VK4RB (07) 47757546 h

or email rob@themalefamily.net for info and reports.

Node 6444 home page - <http://irlp.themalefamily.net/>



TARC News Retransmit Operators

Sunday mornings -

Don VK4MC, Denis VK4AE, Lyndall VK4ZM,

Richard VK4FRJG, Gavin VK4ZZ

Sunday evenings -

Gavin VK4ZZ, Lyndall VK4ZM, Richard VK4FRJG

More Volunteers welcome !



TARC Ladies Group

an informal gathering of YLs and XYLs interested in Amateur Radio and allied activities. Established January 1989 by Ann Renton VK4MUM (sk). The group have a natter during the Ladies Net on the Townsville UHF Voice Repeater 4th Tuesday of the month. **Co-ordinator Lyndall Reibelt 0427 688014**



TARC Meetings :

Management Meeting - First Tuesday of the month,

Project Nights - Second Tuesday of the month,

Social / Backscatter Meeting - Third Tuesday of the month,

all start from 7-30pm at the Club Rooms, upstairs at SES Headquarters, Green Street West End (via Sidney Street).

For meeting dates please consult the events calendar on the cover of this magazine .

Today's secret word is **DEMO D U L A T O R**

Regional Voice Repeaters (all frequencies in MHz)

Locale	Callsign	Input	Output
Hann Tableland	VK4RHT	146.250	146.850
Cairns	VK4RCA	146.350	146.950 IRLP 6163
(Mt Yarrabah)	VK4RCA	434.850	439.850
Tolga	VK4RBK	434.900	439.900
Atherton- Longlands Gap	VK4RTA	146.075	146.675
Butchers Creek	VK4RBP	147.700	147.100
	VK4RBP	434.775	439.775
	VK4RBP	52.775	53.775
Innisfail Region	VK4RKZ	146.275	146.875
(Cowley Hill)	VK4RKZ	434.725	439.725
Townsville Region	VK4RAT	146.100	146.700
(Mt Stuart)	VK4RAT	433.225	438.225 IRLP 6444
	VK4RAT	1293.500	1273.500
	TAC08	477.350	476.600 UHF CB 08
Neuvele Caledonie (Mont Do)	FK8ZHA	146.200	146.800
Bowen (off air - use simplex)	VK4RSB	146.725	146.725
Mt Isa (Four Mile Hill)	VK4RMI	146.100	146.700
Midge Point (Conder Hills)	VK4RMP	146.200	146.800 IRLP 6037
Mackay (Mt Blackwood)	VK4RMK	146.400	147.000 IRLP 6450
Sarina	VK4RSA	146.075	146.675
(Jordan Creek)	VK4RSA	434.625	439.625 IRLP 6037
Nebo (Mount Seaview)	VK4RRR	146.375	146.975 IRLP 6037
Nebo (Blue Mountain)	VK4RBM	146.175	146.775 IRLP 6741
Clermont	VK4RHR	146.325	146.925 IRLP 6037
(Hodgson Range)	VK4RHR	433.500	438.500
Rockhampton Region	VK4RAR	146.100	146.700 IRLP 6973
(Mt Archer)	VK4RAR	433.225	438.225 IRLP 6037
Blackdown Tableland	VK4RBD	146.350	146.950 IRLP 6037
Springsure (Roddas Lookout)	VK4RSP	146.225	146.825 IRLP 6037
Regional Packet Digipeaters (north to south): In/Out			
Kuranda (Mount Haren)	VK4RIK-3	145.175	with APRS
Clifton Beach (FNQ iGATE)	VK4FQ	145.175	with APRS
Butchers Creek	VK4RBP	144.900	
Tolga (FNQ exp Igate)	VK4GO	145.175	with APRS
Townsville (Mt Stuart)	VK4RAT-3	145.175	with APRS
Belgian Gdns (NQ exp iGATE)	VK4WGU	145.175	with APRS
Black Rvr (NQ exp iGATE)	VK4BDJ	145.175	with APRS
Vincent (NQ iGATE)VK4ZZ		145.175	with APRS
Kelso (Townsville HF Gate)	VK4MDX-4	7.0365	LSB APRS
Kelso (NQ exp iGATE)	VK4MDX-4	145.175	with APRS
Charters Towers (Sellheim)	VK4FNQ-3	145.175	with APRS
Proserpine (Midge Point)	VK4RMP-3	145.175	with APRS
Mackay (Mt Blackwood)	VK4RMK	145.175	with APRS
Sarina (Jordans Creek)	VK4RSA-3	145.175	with APRS
Nebo (Mt Seaview)	VK4RRR-3	145.175	with APRS
Nebo (Blue Mountain)	VK4RBM	145.175	with APRS
Clermont (Hodson Range)	VK4RHR-3	145.175	with APRS
Middle Ck (CQ iGATE)	VK4RM	145.175	with APRS
Middle Ck (CQ HF-Gate)	VK4RM-4	10.1476	USB APRS
Middlemount	VK4REP-3	145.175	with APRS
Rockhampton (Mt Archer)	VK4RAR-3	145.175	with APRS
Blackdown Tableland	VK4RBD-3	145.175	with APRS
Springsure (Roddas Lookout)	VK4RSP-3	145.175	with APRS
Regional ATV Repeaters : Callsign Input Output			
Townsville Region	VK4RAT	1270.000	444.225
Regional Beacons Output			
10m Mt Stuart (Townsville)	VK4RTL	28.270	CW id
6m Mt Haren (Kuranda)	VK4RIK	52.445	CW id
Hann Tableland (Atherton Tlands)	VK4RHT	50.281	CW id
Mt Stuart (Townsville)	VK4RTL	50.282	CW id
2m Mt Stuart (Townsville)	VK4RTL	144.445	
70cm Mt Stuart (Townsville)	VK4RTL	432.445	CW id
23cm Mt Stuart (Townsville)	VK4RTL	1296.444	CWid

Today's fortune cookie :- " **Any IC protected by a fast acting fuse will protect the fuse by blowing first " !!**

Weather Information on HF
VMC Charleville 2201, 4426, 6507, 8176kHz USB
 NT, QLD, NSW, VIC, TAS, SA areas

VMW Wiluna 2056, 4149, 6230, 8113kHz USB
 NT, WA, SA areas

Stations transmit Marine Weather Warnings on the hour

The North Queensland Amateur Radio Convention 2011 Charters Towers



INTRODUCTION & PRESIDENTS WELCOME

The Convention is a biennial event held at a venue somewhere in North Queensland by one of several active Amateur Radio Clubs in the region.

The aims and objects of the Convention very closely echo those of the international hobby of Amateur Radio.

These aims and objects primarily point to providing a venue that :

- promotes self training in radio communications.
- enhances social contact with all peoples interested in radio technology.
- stimulates interest in the different facets of radio technology as a hobby.
- showcases benefits to the community that Amateur Radio can provide.
- Introduces the regional aspects to newcomers of the hobby.
- Acts as a focal point for future planning in the hobby.

The 2011 Convention is being held from Friday evening 16th September until Sunday afternoon 18th September. This will be the 20th time the Convention has been held - 40 years of showcasing Amateur Radio in North Queensland.

The Convention is dedicated to the spirit of trailblazers in the hobby, whether it be the technical, operational or policy areas of Radio Technology.

The Convention will be hosting such diverse activities as:

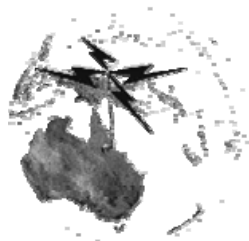
- * technical lectures
- * trade displays by manufacturers, dealers, and special interest groups
- * demonstrations of several facets of the hobby including Direction Finding, Computer enhanced communications and long distance communications
- * social functions
- * display of self-made equipment, handicrafts and produce
- * future planning talks
- * used equipment sales and monster auction

Members and Committee of The Townsville Amateur Radio Club (Inc) hope you enjoy the Convention and look forward to any positive feedback that you can provide to improve the event.

Richard Goodhew VK4FRJG – President 2011

The Host Club for the 2011 North Queensland Amateur Radio Convention is :
The Townsville Amateur Radio Club Inc. PO Box 333, Garbutt East, QLD, 4814
<http://www.tarc.org.au> IRLP Node 6444 vk4wit@wia.org.au





The North Queensland Amateur Radio Convention 2011 Charters Towers

 **EVENT TIMETABLE**

Friday 16 Sept. 4pm to 6pm at Charters Towers RSL Club Function Room:
- Set up displays, signage and layout for Meet and Greet

Friday 16 Sept. 7pm to 10-30pm
Charters Towers RSL Club Function Room
Registered attendees and special guests only.
- Meet and Greet evening & Official opening of the convention around 8pm by
Mayor Ben Callcott - Charters Towers Regional Council
Masters of Ceremonies - Ray Schinkel VK4NET & Lyndall Reibelt VK4ZM
- nibbles supplied by theTARCinc

Saturday 17 Sept 8am to 9am at Charters Towers RSL Club Function Room :
- finalise set up of Trade Displays
- set up Registration
- set up Demonstrations

Saturday 17 Sept 9am to 5-30pm at Charters Towers RSL Club Function Room :
- Trade Displays
 Navcom Electronics - Barry Dionysius VK4TBD and Helper
 TET-Emtron Antennas – Mark Rawlings VK6MOA
 The Townsville Amateur Radio Club Inc. – Gavin Reibelt VK4ZZ

Saturday 17 Sept 9am to 11am at Charters Towers RSL Club Function Room :
- entry and set up of Home Brew Contest Displays
 see Gavin VK4ZZ for Technical, Lyndall VK4ZM for Craft, Tony VK4TJS for Produce.

Saturday 17 Sept 9am to 10-30am at Charters Towers RSL Club Function Room :
- **Registration.** Get your Convention Hospitality Bag from Joan VK4FTVL and Colin VK4UCM.

Saturday 17 Sept 10-30am to 12-00pm
- Visit to Zara Clark Museum, cnr Mosman & Mary Streets Charters Towers
Registered attendees only. \$5 per head paid to Lyndall VK4ZM.

Saturday 17 Sept 12pm to 1-30pm at Charters Towers RSL Club Main Bar :
- Lunch – pay as you eat and drink.

Saturday 17 Sept 1pm to 1-30pm at Charters Towers RSL Club Function Room :
Judging of Craft Home Brew Entries by Lyn Prichard, Class Teacher, QCWA Charters Towers
Judging of Technical Home Brew by Don Terrace VK4MC B.Sc.(E.Eng.)
Judging of Produce Home Brew
by Senior Sargeant Graham Lohmann, Queensland Police Service Charters Towers
with Meryl Lohmann, Board of Control of Graham,
and Lieutenant Brian Geoghegan, Queensland Fire and Rescue Service Charters Towers

The North Queensland Amateur Radio Convention 2011 Charters Towers



EVENT TIMETABLE

Note : Entrants in the Home Brew Competitions are required to have pre-registered for the Convention, be present at Judging and answer any questions from the Judges about your apparatus, craft or produce.

Saturday 17 Sept 9am to 10-30pm at Charters Towers RSL Club Function Room :
- Raving Rays 25s and 50s Numbers Club & 2 Raffles of Distinction (throughout the day)
plus – MEET THE STINK!

Saturday 17 Sept 2pm - 3-30pm
- Visit to the Venus Gold Battery, Millchester Road Charters Towers
Position 20deg 05.202min South, 146deg 17.535min East
Registered attendees only. \$11 per head paid to Lyndall VK4ZM.
(enclosed footwear required)

Saturday 17 Sept 4pm - 5-30pm at Charters Towers RSL Club Northside Car Park :
Car Boot Sale

Saturday 17 Sept 4pm - 5-30pm at Charters Towers RSL Club Function Room :
Set up tables and seating for Convention Banquet

Saturday evening 7pm to 10-30pm at Charters Towers RSL Club Function Room:
Convention Banquet

Registered attendees and special guests only.

- Bistro banquet provided by the RSL Club kitchens
- Home Brew prize announcements
- Mystery Item Auction (remember to bring an item mysteriously wrapped)
- Banquet surprise & raffle with John VK4FNQT
- Presentation of the Ken Robertson VK4KT Memorial Award
- Technical and Planning Talks

Master of Ceremonies - Gavin Reibelt VK4ZZ

Sunday 18 Sept 7-30am to 9am at Charters Towers RSL Club
Setup Monster Auction

Sunday 18 Sept 8-30am to 10 am at QCWA Jane Black Memorial Hall
80 Mosman Street Charters Towers
Ladies and Partners invade the QCWA Markets.

Sunday 18 Sept 9am to 1pm at Charters Towers RSL Club Function Room : Trade Displays

Sunday 18 Sept 10am to 11am : Visit to Historic Ambulance Station 157 Gill Street.
Registered attendees only. \$2 per head paid to Lyndall VK4ZM.

Sunday 18 Sept 11am to 3pm at Charters Towers RSL Club Northside Car Park
- Monster Auction & Draw of Convention Raffles

Sunday 18 Sept 12pm to 2pm at Charters Towers RSL Club Forecourt :
- BBQ Lunch – \$10 per head - pay as you eat and drink.

Sunday afternoon 3pm to 5pm at Charters Towers RSL Club
Cleanup outside and inside and keep up the fine Convention tradition by
watching Don VK4ZCQ fit heaps of treasure into a little car !



The North Queensland Amateur Radio Convention 2011 Charters Towers

LOCALITY MAP



The North Queensland Amateur Radio Convention 2011 Charters Towers



LOCALITY MAP





The North Queensland Amateur Radio Convention 2011 Charters Towers

KEN ROBERTSON VK4KT MEMORIAL AWARD

THE KEN ROBERTSON VK4KT MEMORIAL AWARD FOR OUTSTANDING ABILITY IN THE FIELD OF AMATEUR RADIO EXPERIMENT

This trophy is awarded at the North Queensland Amateur Radio Convention in memory of Ken Robertson VK4KT (sk) (a pioneer of radio experimentation and education in North Queensland), to an amateur radio licensee who is considered to have furthered experimentation and education in the field of radio technology.

Award Criteria :

The nominated person shall :

- be an active member of a local club
- be a member of the WIA and
- hold any recognised VK licence.

The area for selection of the nominee shall be "North Queensland", i.e. from Mackay north, and west, to also include the Central Highlands.

Main basis for selection shall be :

For Experimentation and Advancement of Amateur Radio.

For experimentation - involving practical radio and electronic construction techniques.

Essential that practical results can and have been demonstrated.

For advancement - To communicate the results of such experimentation, mainly through demonstrations, talks, lectures, and published notes or articles.

Award Procedure.

- A call for nominations to be made by the Club sponsoring the NQ Convention, typically when other clubs are asked to supply club details.
- Each club can have one nominee only.
- Each nomination to include a précis of the reasons for nomination.
- Each club to appoint a delegate who will be at that NQ Convention, to meet with the other delegates and decide the recipient.
- The delegates may decide not to award the Trophy, if there are not any suitable qualified candidates.
- Recipient does not have to be at the North Queensland Amateur Radio Convention.
- The trophy to be normally retained by the host club of that NQ Convention until awarded again.
- A suitably framed certificate will also be awarded to the recipient for their personal display.

Note that the 2011 North Queensland Amateur Radio Convention will be the last time that this award will be presented.

Previous Winners :

John Stevens VK4AFS, 1991 - John Gielis VK4JKL, 1993
 Ron Graham VK4BRG, 1995 and 1997 - Gavin Reibelt VK4ZZ 1999
 Don Terrace VK4MC, 2001, 2003, 2005 - John Roberts VK4TL 2007
 Roy Moore VK4RM, 2009.



The North Queensland Amateur Radio Convention 2011 Charters Towers

TRADE DISPLAYS, SPONSORS & HOSPITALITY BAG DONATORS



Navcom Electronics Pty Ltd – Barry Dionysius VK4TBD/VH4X
173 Boundary Street South Townsville QLD 4810
PO Box 3040 Hermit Park QLD 4812
0416181740 07-47712422 1800 623422 Fx 07-47716512
barrydionysius@bigpond.com



TET-EMTRON – Mark Rawlings VK6MOA
80 Stock Road Herne Hill WA 6056
08-92963224 Fx 08-92963231
mark@tet-emtron.com
<http://www.tet-emtron.com>



Jaycar Electronics Pty Ltd – Carl and the Guys in Townsville
167 Ingham Road West End QLD 4810
07-47725022 Fx 07-47725622
<http://www.jaycar.com.au>



Solex – Frank
2/20 Somer Street Hyde Park QLD 4812
0414337142 07-47714211
sales@solex.com.au
<http://www.solex.com.au>



TTS Systems –Claureen and Dave Wilson
1510 Frankston Flinders Road Tyabb VIC 3913
PO Box 41 Tyabb VIC 3913
03-59774808 Fx 03-59774801
info@ttssystem.com.au
<http://www.ttssystem.com.au>



Jupiters Townsville Hotel and Casino
Sir Leslie Thiess Drive Townsville QLD 4810
07-47222333 1800079210
TSVLreservations@tabcorp.com.au
<http://www.jupiterstonsville.com.au>






CONVENTION COMMUNICATIONS SERVICES

VHF FM Voice Regional – 146.500MHz UHF FM Voice Local – 439.000MHz
VHF SSB Voice DX – 144.150MHz VHF FM APRS Regional – 145.175MHz
The nearest ham repeater site is – Mount Stuart : Townsville 146.700MHz / 438.225MHz



The North Queensland Amateur Radio Convention 2011 Charters Towers

HISTORY OF THE CONVENTION

Aims and objects :

(parts taken from an original document by Peter Renton/VKPV, February 1979)

The fundamental aim of the North Queensland Amateur Radio Convention is to provide an opportunity for Radio Amateurs, Radio Club Members and those parts of the general community who have an interest in communications operations and technology to meet together socially every two years.

(It should be noted that Amateur Radio normally provides voice or data contact only, and many Amateurs never get to see the owner of the voice at the other end, even though they may have had years of regular contacts.)

Other subsidiary aims are as follows :

1. To provide a technical service in the form of lectures, visits, trade displays, films, etc.
 2. To stimulate interest in various forms of technical activity by the running of contests. This could include homebrew construction (both technical and non-technical), amateur radio direction finding, construction sprints, operational proficiency etc.
 3. To provide alternate activities and entertainment for spouses and families who may not be oriented towards Amateur Radio.
 4. To provide a point of contact with all members of the general community whose interest lies in the techniques of communications, rather than in communication as an end to itself.
- Through the point of contact demonstration can be made of the advantages of Amateur Radio. Such other groups in the general community include people interested in Citizens Band Radio, Professional Mobile Radio, Maritime Communications, Outpost Radio, Disaster Communications, Experimental Communications and Space Communications.
5. To interest the general public in Amateur Radio and so encourage new participants to the hobby in due course.
 6. To run the Convention in such a manner as to ensure that the running costs are met by convention registration fees and profits from sales of books etc. In alignment with the general scheme of non-pecuniary interests in the hobby, it is NOT the aim of the organisers to derive a large financial gain from the North Queensland Amateur Radio Convention.

History :

(taken from notes compiled by Iain Morrison/VK4IGM and Peter Renton/VK4PV in the special edition September 1997 issue of the club magazine Backscatter. The list is updated on a biennial basis.)

The North Queensland Amateur Radio Convention has been held since 1973, with the following table showing a summary of venue and events. The Brief Details section includes the main venue, activities, banquet venue plus visits details

No.	Date	Club President	Brief Details
1	July 1973	Peter Lindsay VK4QD	Civil Defence HQ, Technical Films, Junior Rugby League HQ, Anzac Park, Queens Hotel
2	July 1975	Ray Kearney VK4HE	SES HQ, opened by Prof. James Ward, Senior Citizens Centre, Anzac Park, Queens Hotel, visit to Kissing Point Ocean Radar.
3	July 1977	Peter Renton VK4PV	Hermit Park School, opened by Ald. Perc. Tucker, JCU Physics Dept, Pallarenda, Visit to RAAF Many Peaks.
4	Sept 1979	Peter Snell VK4APS	TCAE, opened by Gordon Dean, JCU Physics Dept, visit to Bohle RAAF, Visit to Bohle RAAF Transmitters, tour of Civic Theatre, visit to TNQ-7.
5	Sept 1981	Roger Cordukes VK4CD	TCAE, JCU Electrical Engineering, opened by Ald Mike Reynolds, visit to OTC Pallarenda.
6	Sept 1983	Roger Cordukes VK4CD	TCAE (10th anniversary dinner), opened by Ken McElligott, JCU Physics, visit to JCU Wind Tunnel.
7	Sept 1985	Bob Mann VK4WJ	JCU Western Campus, opened by Prof. James Ward, JCU Electrical Engineering, JCU Physics, visit to TNQ-7.
8	Sept 1987	Evelyn Bahr VK4EQ	JCU Western Campus, opened by Dr. David Wardlaw VK3ADW, TAFE Electrical Magic Show,
			visit to NSCA Hangar.
	9 - Sept 1989	Rob Male VK4RB	JCU Western Campus, opened by Guy Minter VK4ZXZ, TAFE Electrical Magic Show, JCU Electrical Engineering.
	10 - Sept 1991	Peter Harding VK4PVH	JCU Western Campus, opened by John Nutting (mgr ABC), JCU Electrical Engineering, visit to QTV, visit to RAAF Museum.
	11 -Sept 1993	John Mahoney VK4JON	Cairns - at Combined Citizens Band Schools Hall, opened by Gerry Millward VK4HT (area manager SMA).
	12 - Sept 1995	Bob Mann VK4WJ	JCU University Hall, opened by Hon Ted Lindsay, special guest speakers Christine Goode (manager SMA) and Mal Heron (JCU), Radio Sport Demonstrations and lectures.
	13 -Sept 1997	Bob Mann VK4WJ	JCU University Hall, opened by Senator Richard Alston, guest speakers Hon Peter Lindsay VK4TO and Gerry Millward VK4HT (Area mgr ACA), Lectures by John Nielsen and Ron Graham VK4BRG. Visits to Maritime Museum, Tumberton Lodge
	14 - Sept 1999	Don Terrace VK4MC	JCU University Hall, opened by Hon Peter Lindsay VK4TO and Gerry Millward VK4HT (Area mgr ACA), Lectures by Assoc Prof Keith Kikkert and Ron Graham/VK4BRG Compass House, Uni Hall
	15 - Sept 2001	Gavin Reibelt VK4ZZ	JCU University Hall, opened by Evelyn Bahr VK4EQ Lectures by Prof. Mal Heron and Leonie Tarnawski ACA Crafts with Sheila Morrison, Visits to Pandora museum
	16 - Sept 2003	Gavin Reibelt VK4ZZ	daytime - JCU University Hall Mezzanine 30th Anniversary night-time Anita's Restaurant, Cluden Park Motor Inn opened by Alan Stephenson VK4PS Lectures by Prof. Mal Heron, Mark Loney / Christine Allen ACA, Gerry Millward ACA – Crafts with Sheila Morrison and Addie Cook
	17 - Sept 2005	Gavin Reibelt VK4ZZ	daytime - JCU University Hall Mezzanine, night-time Anita's Restaurant, Cluden Park Motor Inn. opened by Evelyn Bahr VK4EQ Lectures by Prof. Mal Heron, Phil Grimshaw VK4KVK. Crafts with Suzanne Hodgson Excursion to Willows Markets
	18 - Sept 2007	Gavin Reibelt VK4ZZ	daytime - JCU University Hall Mezzanine night-time Centenary Hotel. opened by Wally Watkins VK4DO. Lectures by Prof. Mal Heron, Dr. Graham Woods, Don Dinnie VK4ZCQ, Phil Grimshaw VK4KVK. Crafts with Kathy Pepper, Excursion to Heritage Tea Rooms Herveys Range
	19 - Sept 2009	Ken Cassidy VK4OZ	daytime - JCU University Hall Endeavour Room night-time - Frog and Toad Bistro, West End Hotel. Opened by - Richard Goodhew VK4FRJG. Lectures by Associate Professor Keith Kikkert , Max Riley VK2ARZ. Excursion to The Townsville Museum & Willows Markets
	20 - Sept 2011	Richard Goodhew VK4FRJG	Charters Towers RSL Club Function Room (40th Anniversary Dinner) Opened by - Mayor Ben Callcott, Charters Towers Regional Council. Tours of The Venus Gold Battery, Zara Clark Museum & Vern Kerr VK4LK (sk) Display, Historic Ambulance Station. Excursion to Charters Towers QCWA Markets. Trade Displays by TET-Emtron, Navcom and theTARCinc