

CW Operators' QRP Club Inc.



THE VK QRP CLUB

Promoting the use of all modes of low power communication and homebrewing in the Amateur Radio service

28 Years: 1983 to 2011

WE DO MORE WITH LESS

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The VK QRP club - CW Operators' QRP Club Inc.

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No. 102
June 2009

Lo-Key
VK QRP Club

The TinCan 2



The Auzie Mozzie



and more ...

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- * A number of minor & superseded articles and notes are not included in this index.
- * Headings are arranged in alphabetical order.
- * References given are Lo-Key Number-p-Page Number e.g. Lo-Key #96 page 2 is "96p2".

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 Jack Flynn VK2AY #309 52p31
 Jim Reid VK3VAG #215 38p31
 John Young G0WQR #719 90p13
 John (Jack) Swiney VK6JS #676 90p13
 Keith McCarthy VK3JNB #486 101p8
 Kevin Saunderson SWL #428 52p31
 Leith Cotton VK5LG # 18 72p9
 Len O'Donnell VK5ZF #1 40p2
 Len Robinson VK3ALD #439 64p17
 Lindsay laPouple VK3FR #47 67p14
 Luke Dodds W5HKA 42p26
 Mack Mackintosh VK5BW 100p11
 Max Brunger VK5OS #2 33p6 32p3
 Neil Stewart VK2GS #422 60p19
 Peter Alexander VK2PA 56p11
 Peter Spencer VK5APS #232
 Quintin Greene VK4BQG #589 101p8
 Rai Taylor VK7VV #3 64p17
 Reg Bedford VK3BPG #7 51p6
 Rex Black VK2YA #131 57p11
 Ron Petrich VK4ACZ 100p11
 Ross Croucher VK3ARC 102p11
 Stan Bowdidge VK4NSL #515 57p11
 Stan Dean VK4BSD #44 66p2
 Ted Beard VK7EB #275 80p22
 Ted Walton VK4ATZ #94 38p31
 Tom Laidler VK5TL #281 45p5



CW Operators' QRP Club

Home Brew With Drew

A List of Publications of Drew Diamond VK3XU #49



Includes June 2011 issue of 'Amateur Radio'

Prepared by Don Callow VK5AIL #75

This list of Drew's published articles and book is frequently updated on the Internet and is occasionally published in Lo-Key. Let us know if you are aware of other articles.

These projects and technical articles provide a valuable contribution to Amateur Radio home brewing. Drew often mentions that he is prepared to respond to queries. Please enclose a S.A.S.E. if you write to him at:-

"Nar Meian", 45 Gatters Rd.,
WONGA PARK, Victoria 3115

BOOKS

- 1995 Radio Projects for the Amateur
- 2001 Radio Projects for the Amateur - Volume 2 (Reviewed in AR Aug 01 p36)
- 2004 Radio Projects for the Amateur - Volume 3 (Reviewed in AR Dec 04 p23)
- 2008 Radio Projects for the Amateur - Volume 4 (Review in AR Oct 08)

LO-KEY

- #4 Dec 8419 Two-Band QRP Transmitter (Reprinted in **SPRAT** #41)
- #66 Jun 0012 A 4-Band QRP CW Transmitter with QSK T/R

AMATEUR RADIO ACTION

- Vol.2 #11 22 Incredible Noise Cancelling Antenna

ELECTRONICS AUSTRALIA

- Jul 95 48 Crystal-Locked 5MHz Receiver for VNG

AMATEUR RADIO

Journal of the WIA

Letters after year: 'c' = subject of a cover photo; 'n' = article is in Novice Notes column; 'w' = In the Workshop column. Articles are listed in chronological order.

- Oct 73 10 A VFO for 5-5.5 MHz (Drew was then VK3ANU)

- Nov 75c 15 QRP CW Rig for 7 MHz

- Oct 76 9 A Method of Reducing HV Power Line Noise (See Jan 93 p19 "More on Interference Cancelling, and a New Circuit" by Lloyd Butler VK5BR & correction in Feb 93 p20 under heading "Murphy's Corner")

- Sep 80c 8 Five-Watt CW Transmitter (Single band 3.5,7,14 or 21MHz)

- Jul 81 28 Home-Brewer's Linear Amplifier for the 3.5, 7.0, 14, 21 and 28 MHz Bands

- Aug 81 11 Direct Conversion Receiver for 3.5, 5 or 7 MHz

- Oct 81 7 QRP Solid State Linear Amplifier for HF

- Dec 81 12 QRP CW Transmitter with Break-In - Part 1 (Multi-band 1.8, 3.5, 7, 14 MHz)

- Jan 82 5 QRP CW Transmitter with Break-In - Part 2

- Feb 82 8 QRP CW Transmitter with Break-In - Part 3



Jan 83 8 A Square-One Receiver
Feb 83c 14 A "Square-One" Receiver - Part 2
Mar 83 11 A "Square-One" Receiver - Part 3
Apr 83 33 A Sensitive SWR Meter
(See Lo-Key #19 Sep 88 p3. Club Kit-Set K006)
Dec 83 24 'Square-Two' Converter
Mar 84 14 High Performance Direct Conversion Receiver Part 1
Apr 84c 10 High Performance Direct Conversion Receiver Part 2
Mar 85 14 DSB/CW Transmitter for 80 Metres
Dec 85n 34 Basic Metalworking - "Chassis Bashing"
Feb 86n 37 Starting a Radio Electronics Workshop
Apr 86n 20 Four-Watt CW Transmitter for 80 Metres
Jun 86n 24 The Open Wire Feed, HF Multi-Band Dipole
(Correction in Jul 86 p9 under heading "Jumbled? ? ?")
Sep 86n 34 Direct Conversion Receivers - Here to Stay
Oct 86n 16 DC86 Direct Conversion Receiver for Eighty Metres
Mar 87n 22 Some Troubleshooting Tips
May 87n 27 Cheap Radio - The "Junk Box"
Sep 87n 30 Converting the DC86 VFO
Oct 87n 34 A Crystal Calibrator and Signal Source
Nov 87n 20 Quartz Resonators (Crystals)
Jan 88n 45 Some Practical Tips of VFO Construction
Feb 88n 30 A Handy Quartz Crystal Checker
May 88n 26 Measuring Small Coils and Capacitors with a Dip Meter
Oct 88n 6 MOSFET Power Amplifier for 1.8 to 10.1 MHz
May 89n 30 A Simple Impedance Bridge
Nov 89 10 'MOSFET-4' VFO CW Transmitter for 80m
May 90c 8 Superhet-DC Receiver for 3.5 to 4.0 MHz
(Correction in Jun 90 p15 under heading "Errata and Addenda for DC Superhet")

Jun 90 12 A Simple Dip Meter
Nov 90 10 'Fonefist' SSB/CW Transmitter for 80 Metres
Jan 91 7 25W Mosfet Linear Amplifier
Jun 91 9 "Computarock" Receiving Converter (Pre-Selector idea in Oct 91 p7, from R. McGregor VK3XZ)
Aug 91 7 "Handybridge" Impedance Bridge for HF
Dec 91 8 Multiplier CW Transmitter for 3.5/7/14MHz
(Correction in Feb 92 p49 under heading "Murphy's Corner")
May 92 8 DC91 Direct Conversion Receiver for 80m
(Drop one: DC-91 Revisited by Max Riley VK2ARZ photos & brief notes)
Jun 92 17 "Computarock" HF Receiver (Correction in Aug 92 p24 under heading "Murphy's Corner")
Aug 92 8 HF Band CW Transmitter From Junk-Box Parts (valve)
Sep 92 30 A Simple Tuning Dial from Junk Box Parts
Nov 92 11 "Little-L" Inductance Bridge for RF Coils
Apr 93 3 An RF Power Meter Load (with notes on PEP)
Mar 93 13 Making Simple Circuit Boards
May 93 19 HFC Regulated Variable Voltage Power Supply
(Correction in Aug 93 p50 under heading "Update")
Jun 93 24 "Simplex" Sideband Transmitter for 3.580MHz
Oct 93 4 "TCF" Sideband/CW Transceiver for 80 Metres
(See Lo-Key #47 Sep 95 p14 and p18 "Additions and Mods ..." by Peter Spencer VK5APS sk)
Feb 94 4 Making Air-Wound Coils for HF
Oct 94 3 An Empirical Approach to Building an HF Receiver
Jan 95 20 Variable Capacitors Made From Trimmers
Feb 95 4 "Paddyboard" Circuit Construction
May 95 9 "TCF" Sideband/CW Transceiver for 40 Metres
Jul 95 16 Modified Twist Drills for Sheet Metal

Sep 95 8 Receiving Converter for 2 Metres
Dec 95 9 Simple LF Receiving Converter
Jun 96 5 "Little Mate" CW Transceiver for 3.5 and 7 MHz
Oct 96 8 Receiving Converter for 6 Metres
Dec 96 10 "Miser's" 13.8 volt 10 or 20 amp Power Supply (With Ray VK3RD)
May 97 6 "Nano-L" Inductance Bridge for Small Coils
Oct 97 5 A Home-brew HF Balun
Nov 97 13 A Homebrew HF Power Meter and Attenuator Set
Dec 97 10 Three-Chip Electronic Morse Keyer
Feb 98 19 A Simple Transmission Monitor and Interference Sniffer
Apr 98 4 A Dip Oscillator, Crystal Checker and Signal Source
May 98 20 Making Boxes with Ordinary Tools
Aug 98 6 A Sensitive Field Strength Indicator
Sep 98w 11 A Simple Sheet-Metal Bender
Nov 98w 10 A J-Pole Antenna for 2 Metres
Dec 98 7 Some Practical Tips on Timber Radio Masts
Dec 98 11 A Sensitive HF Indicating Wavemeter
Jan 99 15 A Current Indicator for Open-wire Transmission Lines
Feb 99 12 An Inductance Meter for Radio Coils
Apr 99 6 Improvements to Signal Generator Model Q-1312/SG-9200 (from DSE etc.)
May 99 21 A Twin-meter SWR Bridge
Jun 99 23 General Purpose Amplifier / Mike Tester / Power Supply
Jul 99 24 An RF Resistance Bridge
Aug 99 22 An Attenuator Set for Receiver Sensitivity Measurements
Sep 99 24 A Binaural Direct-conversion Receiver
Dec 99 24 A Spectrum/Attenuation Measuring Set
Dec 99 30 An AM/CW Transmitter for 1.8, 3.5 and 7 MHz (Part 1)
Jun 00 22 An AM/CW Transmitter for 1.8, 3.5 and 7 MHz (Part 2) Jun not Jan
Jan 00 22 An Experimenter's Power Supply with Current-Limit
Feb 00 14 40W MOSFET HF Linear Amplifier
Mar 00 6 A Portable RF Resistance Measuring Set

May 00 18 LF Receiving Converter with Loop-stick Antenna
Jun 00 6 Making "Air-Wound" Transmitting Coils
Jun 00 22 An AM/CW Transmitter for 1.8, 3.5 and 7 MHz (Part 2)
Jul 00 8 A 'Swinging Link' Antenna Coupler
Aug 00 8 An RF Voltage Probe (with notes on power measurement)
Oct 00 9 A Superhet Receiver For Three HF Bands
Dec 00 10 From Circuit to Chassis
Jan 01 8 A W2PV 4-Element Yagi for 6 Metres
Apr 01 10 Making Holes in Sheet Metal
May 01 4 An RF-actuated CW Monitor and Practice Oscillator
Jul 01 4 An Electronic Keyer Paddle from "Scrap-Box" Parts
Sep 01 4 Rewinding Power Transformers for 13.8V Power Supplies
Oct 01 4 A Receiving Converter for 432 MHz / 70 cm
Dec 01 4 A X1000 probe for high voltage measurements
Jan 02 4 "Tone-a-Volt" audible voltage and component tester
Mar 02 4 "Tone-a-Tune" Audible SWR Bridge
Apr 02 4 An LF-VHF Milliwatts/Watts Power Meter
40 Why it is important to contribute technical articles to AR ('Opinion' column)
May 02 4 A Practicable Superhet Receiver for 1.8 to 2.0 MHz (and HF)
Jun 02 6 An HF Receiving Converter
14 The Sunday 40-metre CW net reaches 1500 sessions
Aug 02 4 A Capacitance Bridge for Radio Work
Sep 02 37 What are band plans for? (In OTU Over To You column)
Oct 02 4 A Simple HF Signal Source
Nov 02 4 A 25 W AM/CW Valve Transmitter for 1.8 and 3.5 MHz
Dec 02/Jan 03 4 Some uses for a Dip Oscillator
18 A temperature-controlled crystal frequency calibrator
Mar 03 19 A "Kalitron" Gate Dip Oscillator/Crystal Checker
May 03 9 A 3-30 volt, 2 ampere DC Power Supply - with design notes
Aug 03 12 Brush-up your Morse and join in the action
Sep 03 12 An Oscilloscope in the Shack

Oct 03	4	An improved coupler for balanced and single-wire feed antennae	Jun 07	10	Class-E AM/CWW transmitter for 1.8 MHz
Dec 03/Jan 04	8	A solid-state AM/CW transmitter for 1.8 and 3.5 MHz	Jul 07	13	A VK10D PIC Iambic keyer (PIK) made "Paddyboard" style
Oct 04	24	Fixing-up old broadcast gang capacitors	Sep 07	12	A "Noise Tracker" receiver for 144.4555 MHz AM
Feb 04	4	A Transmission Quality Checker, "TQC"		26	A tester for capacitor and diode leakage
Apr 04	18	A simple TV-aligned crystal frequency reference	Nov 07	20	Adding extra windings to toroidal power transformers
May 04	10	An active receiving loop antenna for 1.8 MHz	Dec 07	6	A simple superhet receiver for 160 metres
Aug 04	10	A direct reading inductance meter for radio coils		22	A Class-E CW transmitter for 1.8 MHz with VFO and QSK
Nov 04c	5	RF ammeters for high-frequency measurements	Mar 08	5	A "Paddyboard" substrate for popular 8-pin surface mount chips
Dec 04	5	A compact, effective vertical antenna for 160 metres - Part 1		14	Quieting a switch-mode power supply
Feb 05	12	A compact, effective vertical antenna for 160 metres - Part 2 Construction		18	How to use taps to make internal screw threads
Mar 05	10	Another method of making "air-wound" transmitting coils	Apr 08	11	A combined MF-HF SWR meter and RF ammeter
Apr 05	14	A pi-coupler for the compact 160 m vertical (and HF antennas)	May 08	5	A collet for holding square rod in a 3-jaw lathe chuck
May 05	23	"Paddyboard" circuit construction ~ revised		16	A screw-plate
Aug 05	7	The experimenters' "Blob" board	Jul 08	24	An LF receiving converter with loop-stick antenna
Sep 05	29	Notes on HF transmitting coils	Aug 08	6	A 5 W CW transmitter for 1.8, 3.5 and 7 MHz with QSK
Nov 05	13	A Tetrode Tester	Sep 08	5	A 50 W CW transmitter for 137 kHz
Nov 05	27	Making shunts for ammeters Cover: Photo of Drew's test area	Oct 08	10	An amplitude modulation monitor
Jan/Feb 06A	06A	"Simple Superhet" receiver for 80 and 40 m	Nov 08	5	A loading/tuning coil for 137 kHz antennas
Mar 06	26	Re-using microwave oven transformers for high-voltage power supplies		19	Modified wood-working drills for sheet aluminium
Jun 06	31	A simple direct-reading Q meter	Dec 08	5	An active loop-stick receiving antenna for 1.5 ~ 2 MHz
Aug 06	22	Mark 4 CW transmitter for 3.5 MHz and 7 MHz		8	A 10 and 100 MHz crystal frequency reference/transfer standard
Oct 06	12	A 4-125 Linear Amplifier for 160 m - Part 1	May 09	16	An Active Loop Receiving Antenna for 7 ~ 29 MHz
Nov 06	12	A 4-125 Linear Amplifier for 160 m - Part 2 - construction	Jul 09	11	An active loop receiving antenna for 1.8 - 4 MHz
Dec 06	5	A jig for punching small holes in sheet-metal	Sep 09	12	Getting started on 136 kHz
	9	Notes on the "drilled Perspex" method of making low-loss transmitting coils	Mar 10	29	Book Review: Radio Communication Handbook, 10th edition
	11	A balanced pi couple for balanced antennas	Apr 10	28	An active loop receiving antenna and converter for 136 kHz
Jan/Feb 07	6	A 50 ohm, 200 W dummy load/power meter			



The CW Operators' QRP Club - The VK QRP Club

MPK AWARD RULES (MILLIWATTS PER KILOMETRE)

The main criterion for the 'MPK' is simply to work the farthest distance with the least output power.

The Award is available for CW, SSB and PSK31 modes.

The Award will be made to stations which achieve successful QSOs on or after 1 January 1999 over distances equal to, or greater than, the following:

Section	Power no more than	Distance at least	km per at least	mW per km
A	10 mW	100 km	10	0.1
B	100 mW	500 km	5	0.2
C	200 mW	600 km	3	0.33
D	500 mW	1 000 km	2	0.5
E	1 W	2 000 km	2	0.5
F	5 W	10 000 km	2	0.5

For verification purposes, applicants are asked to supply full details of

- Output power: Key Down for CW and PEP for SSB;
- Latitude and longitude: grid squares, GPS location or map reference (preferably two or more); and
- Photocopies of QSL cards sent and received. **These are to include:**
Mode: Band & Frequency: Other Station call, name and location: Time UTC.

The fee for each award is AUD\$ 6.00 for posting within VK.

The fee for DX applicants is AUD\$ 10.00 or USD\$10.00.

A station may claim more than one award for a single QSO. For example, if you work 2 500 km on 400 mW then both Section D and Section E awards may be claimed.

A station with individual awards in all sections (A to F) may apply for a special 'All Sections Award' for CW or for SSB. There is no additional fee if applied for at the same time as the fifth individual award.

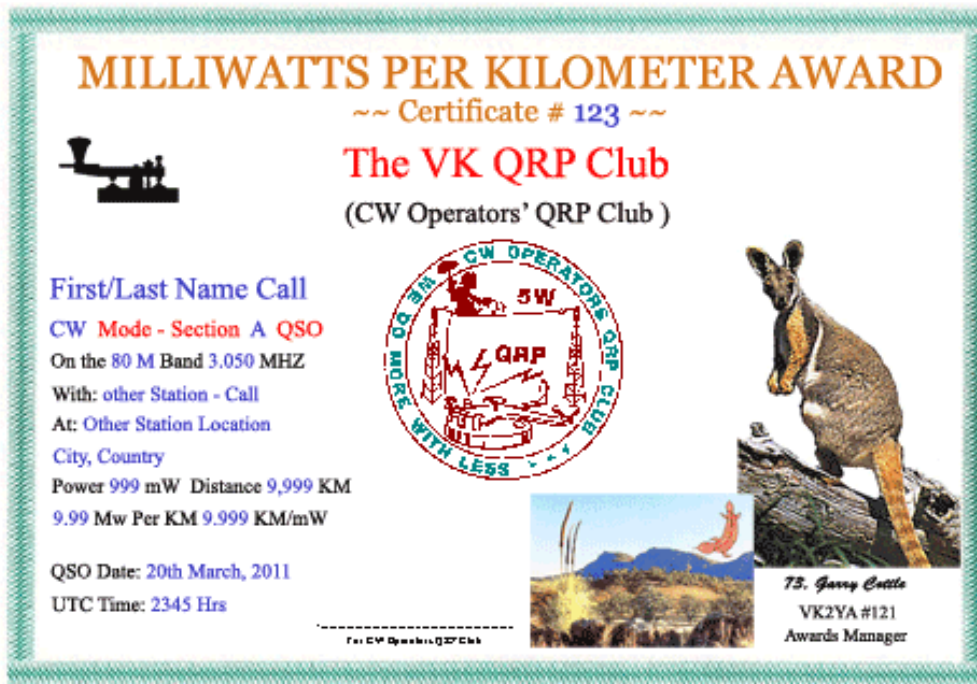
Let's have your photograph too! Send a print or email an image file.

Please send award claims to -

The VK QRP Club
(CW Operators' QRP Club)
MPK Awards Manager
Garry Cottle VK2YA #121
6 Luttrell Street
Richmond NSW 2753
AUSTRALIA

Email queries to Garry: garryvk2ya@gmail.com

A coloured A4-size certificate featuring appropriate images and the Club logo as centerpiece, with the recipient's details prominently displayed, will be awarded. Sample certificate layout



Check our website www.vkqrpclub.org for latest information



The VK QRP Club
CW Operators' QRP Club Inc.
Tri Bander Award

Object:

The object of this award to promote QRP CW operation.

Qualification:

To qualify for the award simply make QSOs' on all 3 bands 80, 40 and 20 meters and earn at least 5 points on each band. This equates to a minimum total of 9 contacts or a maximum total of 15 contacts.

The award is open to all Amateur Radio Operators.

Commencement:

The Award will be made to stations which achieve successful QSOs on or after 1st September, 2011.

Points:

Points will be to claimants as follows:
1 point per contact if that contact is made with a station which is NOT a VK QRP Club (CW Operators' QRP Club Inc.) member, and
2 points per contact if that contact is made with a station which IS a VK QRP Club (CW Operators' QRP Club Inc.) member.

Mode:

All contacts are to be made using CW only.

Power:

The station claiming the award must only use QRP power (not to exceed a max. transmitted power of 5 watts), and ...
The receiving station may use any legal power level.

To claim the award:

The following will be required to claim the award:
Photocopies of QSL cards both sent and received.

These are to include:

Date of contact,
Mode,
Band & Frequency,
RST (both given and received),
Power,
Claimants' station callsign, name VK QRP Club member number (if applicable) and location,
Other Station callsign, name VK QRP Club membership number (if applicable) and location, and
Time of the contact in UTC.
Claimants are to include their postal address for forwarding of Awards.

Cost:

FREE - all awards will be free for claims made up to and including 31st December, 2012.

Award Applications:

Please send award claims to:

VK QRP Club
CW Operators' QRP Club Inc.
Tri Bander Award Manager
Garry Cottle VK2YA #121
96 Luttrell Street
Richmond NSW 2753
AUSTRALIA

Or via email to:
tribanderaward@vkqrpclub.org

Check our website www.vkqrpclub.org for latest information