

BRANCH 37 NZART



BRANCH MEETING WILL BE HELD AT
249 ETRICK STREET INVERCARGILL
ON TUESDAY 09 AUGUST 2011.
CLUBROOMS PHONE 218 8686

www.zl4gq.com



VOLUME 33 ISSUE 07

AUGUST 2011



EMERGENCY MANAGEMENT SOUTHLAND

ACKNOWLEDGES THE NEED
FOR EFFECTIVE OVERALL
COMMUNICATION AND THE
SUPPORT RECEIVED FROM
MEMBERS

WE ARE PLEASED TO BE ASSOCIATED
WITH THE PRODUCTION OF THE CLUB
NEWSLETTER

Branch Meeting 09 August 2011

After this months meeting will be a DVD of the record-breaking drive around Australia in a 1962 Austin Freeway .

LAST MONTHS MEETING

was talk by Neville ZL4OX about search and rescue radio operations. It was a very interesting talk.

BRANCH 37 NET

Every Sunday night at 20:00hrs on 145.775/146.800Khz is the branch 37 weekly net. All hams are welcome to come on to the net, even if its just to say hi.

NZART BROADCAST

Last Sunday of the month 20:00 repeated 21:00 3900Khz

**Please have all copy for the
Newsletter to Tom ZL4HD**

**by 5pm Monday,
25 July 2011.**

126 Barrow street Bluff

Phone: 2128390 or 0226221863

Email: tomrh@xtra.co.nz

AREC:

Training Night on first Tuesday of the month at the club rooms.

BRANCH MEETINGS:

Remember our meeting night on the second Tuesday of the month, at 7.30 pm.

HAM RADIO CLASSES

The classes have finished for the year with good results. Please contact Neville ZL4OX to enter names for next years Classes."

COMMITTEE MEETING:

Committee Members remember that your meeting will be held at 7.00 pm, on the second Tuesday of the month, before the Branch Meeting.

RADIO CLASS NEWS

Three radio class students passed the Ham Exam on Thursday night 21 July and are awaiting the issue of callsigns.

They were John McNab and Mary Ann McNab of River-ton, and John Laughton of Invercargill.

Two more class students will be sitting the exam in the next week or two.

Jackson::Wills

proud to be a Tait Agent since the 1950's.
We have been in business for 64 years
specialising in mobile communications



For professional communication systems

Ph 03 211 0888
FAX 02 218 9069
239 DEE ST INVERCARGILL

BRANCH COMMITTEE

President Phone	Bill Obers ZL3TPE 215 9765
Secretary Phone	Mike Bailey ZL4OM 0273 446 851
Treasurer Phone	John Willoughby ZL4FV 2166569
AREC Phone	Neville Checketts ZL4OX 2166599
Committee	
Owen Baird	ZL4OB Phone 2166055
Tom Hardwick	ZL4HD Phone 2128390
Neville Checketts	ZL4OX Phone 2166599
Paul Aronsen	ZL4PA Phone 2358436
Don Collie	ZL4GX Phone 2165729

— SOUTHLAND —
electronics

Serviceing--Plasma—LCD—Marine Electronics—
microwave Computers
Two Way Communication—Printers—Aerial--Satellite

Supply and installation of Professional Sound Systems
Home Theatre Systems

294 Dee Street Invercargill
2456
Invercargill
admin@nextsouth.co.nz
www.nextsouth.co.nz

Phone (03) 218-
Fax (03) 214-4585

BRANCH SUBS

Single	\$40.00
Family	\$45.00
Junior	\$15.00
Associate	\$20.00



Subs remain the same for this year.

Fund raiser

One way to raise funds for the club is to hire out the clubrooms. If you know of any club/group that might be interested let someone on the committee know.

SUB PAYMENTS

For those people that will pay their subs online please make sure that they put the call sign as ID. If there is no ID it is impossible to know who has paid the sub.

Branch 37 Sunday net roster

August 07 Tom Hardwick	ZL4HD
August 14 Owen Baird	ZL4OB
August 21 Neville Checketts	ZL4OX
August 28 Tom Hardwick	ZL4HD
September 04 Owen Baird	ZL4OB
September 11 Neville Checketts	ZL4OX
September 18 Tom Hardwick	ZL4HD
September 25 Owen Baird	ZL4OB
October 02 Neville Checketts	ZL4OX
October 09 Tom Hardwick	ZL4HD
October 16 Owen Baird	ZL4OB
October 23 Neville Checketts	ZL4OX
October 30 Tom Hardwick	ZL4HD
November 06 Owen Baird	ZL4OB
November 13 Neville Checketts	ZL4OX

If anyone feels as if they would like to have a go at being a net controller please let Tom **ZL4HD** or know. It would only be about once every 4 or 5 weeks.

CALLSIGNS ON THIS MONTHS NETS

Is your call sign here? Hope to see you on the net. Every Sunday night 20:00 hrs
ZL4HD ZL4OX ZL4PA ZL4VAQ ZL4OB
ZL4DE ZL4IG

FINANCIAL MEMBERS

NZART BRANCH 37 AS AT JUNE 2011

Surname	First Name	Callsign
Aronsen	Paul	ZL4TDP
Bailey	Michael	ZL4OM
Baird	Owen	ZL4OB
Barker	George	ZL4CW
Checketts	Neville	ZL4OX
Checketts	Valda	ZL4CC
Davidson	Bob	ZL4TDQ
Du Pont	Chris	ZL4CD
Dudley	Gilbert	ZL4CU
Emergency	Management	
Erickson	Daniel	ZL4DE
Excell	Alf	ZL4SD
Fitches	Sam	
Grieve	Morrie	ZL4QA
Hardwick	Tom	ZL4HD
Laughton	John	
Livingstone	Bradley	
Lloyd	Barrington	
Lowe	Arran	ZL4AC
McKenzie	David	ZL4UDM
McKenzie	Fiona	ZL4TFM
McNab	John	
McNab	MaryAnn	
McNeill	Robin	ZL4IG
Needham	John	ZL4VAQ
Obers	Bill	ZL3TPE
Paterson	Evan	ZL4TAJ
Piercy	Gavin	ZL4IY
Robertson	Colin	ZL4KJ
Sheehy	Brendan	
Shirreffs	Cliff	ZL4CSS
Stewart	Crosbie	ZL4CHS
Thompson	Gavin	ZL4GVN
Thompson	Judi	ZL4JJT

EVA for ARISSat-1/KEDR
Deployment Planned for August 3
AMSAT News Service Bulletin 205.01

Gould summarized, "As of July 22 we are looking at an August 3, 2011 date for EVA 29 and the ARISSat-1/KEDR deployment, subject to change due to ISS schedules. The preliminary Russian EVA-29 timeline shows the ARISSat-1/KEDR deployment is the first task of the EVA, so it will occur fairly soon after the EVA begins. We will let everyone know more as we know more."

The ARISSat-1/KEDR battery is scheduled to be charged 24 hours beginning 24 July at 09:45 UTC. A test of the satellite inside the ISS is scheduled to run from 1900 UTC on Saturday, July 30 and turned off at 14:30 UTC on July 31.

145.950 MHz FM Downlink
FM transmissions will cycle between a voice ID as RS01S, select telemetry values, 24 international greeting messages in 15 languages and SSTV images. One of the messages will be a conversation between Yuri Gagarin and ground control.

435 MHz - 145 MHz Linear Transponder
The linear transponder will operate in Mode U/V (70 cm Up, 2m Down). It is an 16 KHz wide inverting passband and the convention will be to TX LSB on the 435 MHz uplink and RX USB on the 145 MHz downlink. This mode is designed to work with low power transmitters and omni antenna.

145.919 MHz/145.939 MHz CW Beacons
The CW transmissions will be callsign ID RS01S, select telemetry, and callsigns of people actively involved with the ARISS program.

145.920 MHz SSB BPSK-1000 Telemetry
The BPSK transmissions will feature a new 1kBPSK protocol developed by Phil Karn, KA9Q to be readable in low signal level conditions. The BPSK data will transmit satellite telemetry. When the CW2 beacon on 145.919 MHz is active this indicates that the BPSK-1000 format is being transmitted. If the CW1 beacon on 145.939 MHz is active this the backup of BPSK-400 format is being transmitted.

To find the links to the ARISSatTLM software for Windows and Mac, SSTV software for Windows and Mac, and ARISSat-1/KEDR technical data please go to
<http://www.amsat.org>.

[ANS thanks ARISSat-1/KEDR Project Manager Gould Smith, WA4SXM for the above information]

RESEARCHERS DEVELOP ENERGY RECYCLING SENSORS

Researchers at Georgia Tech are tapping RF transmissions from a television station located half a kilometer from their lab to power a wireless temperature sensor. Amateur Radio Newline's Bruce Tennant, K6PZW, is in the science center with more:

A Georgia Tech Research News article said scavenging experiments using TV bands has already yielded power amounting to hundreds of microwatts. It also says that multi-band systems are expected to generate one milliwatt or more. That says researchers is enough to operate many small electronic devices, including a variety of sensors and microprocessors.

The report goes on to note that devices requiring 50 milliwatts or more should be able to be powered by adding super-capacitors across the output of the power system for storage and using cycled operation. The Georgia Tech team is also looking at alternative power for the sensors. The current line of thinking is most likely solar power for daytime operations with the scavenged RF power used at night.

The self-powered wireless sensors are created using ink-jet printers and a special ink containing nanoparticles of silver and/or other material. The researchers have been able to literally print out a combination of sensors, antennas and energy-scavenging capabilities on paper or flexible polymers. The resulting sensors can be used for chemical, biological, heat and stress testing for defense and industry.

So far these energy scavenging devices are able to recycle energy using RF sources ranging from 100 MHz to 15 GHz or higher. More about this breakthrough is on-line at tinyurl.com/recycled-power. (Georgia Tech Research News)

YO0YOA & YO0TSL CELEBRATE YOUTH AND TESLA

Romania's Zamolxes Foundation Radio Club will be operating the special call sign YO0YOA through years end. This, to promote the first youth ham radio organization in Europe known as Youngsters on the Air.

Youngsters on the Air is operated under a grant from Youth in Action and is financed by the European Commission to interest youngsters in amateur radio. Operation of YO0YOA will be on all HF and VHF bands.

Also on the air will be station YO0TSL. This station is to commemorate 155th birthday of famed inventor and researcher Nikola Tesla. (YO9GJX)

Branch 37 in cyberspace

The club website is back up and running again. You can find it at www.zl4gq.com

If any member would like to add to the website, they can do so by email Ken@webfactor.co.nz



CLOSE CLIP
SALON
Hair Stylist and Tobacconist
CORNER YTHAN AND TWEED STREETS
INVERCARGILL
Peter Hair **Ph 03-214 3412**

CHECKETTS ELECTRONICS



21 HIGHFIELD TERRACE
INVERCARGILL 9812

Phone (03) 2166599

Cell 0274 377 431

OFFICIAL AGENT
ICOM
NEW ZEALAND

HARCOURTS

W. Thompson & CO LTD



Gavin Piercy

Sales consultant

Telephone 03-214-4080
After hours 03-217-4596
Mobile 027-445-6157

SENDER:
BRANCH 37 NZART
PO BOX 1260
INVERCARGILL