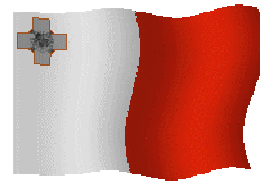


MARL



MALTA



Magazine by MARL

For Maltese and Gozitan
Radio Amateurs

Number 51

June 2010



Smoking is prohibited at the Centre

From the Editor

Friends,

I welcome you to another issue of this magazine for June 2010, which is issue 51 of this series.

MARL took part in a number of activities. Among the activities that in which it took part there was as usual the Spring Fair at San Anton Gardens.

The emergency group also took part in the simulation tests that are held around the world of emergency communications where radio amateurs go to operate out of their home to be prepared for God forbid an emergency arises.

An official presentation of the Caravan was also held near the **MARL** Centre which was also shown on the news on **TVM** and there were also some food and drinks for those who went to our Centre.

A number of radio amateurs also took part at the military day in **Mtarfa** where they were invited by the Local Council. I remind you that we also participated last year and we hope that other Local Councils will invite **MARL** for the activities they have in their locality.

Thus **MARL** not only shows the work it does especially emergency training for some emergency that may arise, but every radio amateur should communicate with his Local Council where he resides to inform them about **MARL** and offer his services, both to increase the number of radio amateurs in his locality as well as to the Local Council where his services will be required.

It's good that the local Councils be informed about the services that radio amateurs can give especially in an emergency in their locality and radio amateurs should maintain contact among themselves as well as with their Local Council.

Further down you have a notice by the Committee on the payment of membership because the Committee felt that it is not right and just with the rest of the members who are regular in their membership payment that there are still those who have not paid and continue to enjoy the benefits of our Organization.

I therefore hope that those who have not yet paid their membership do so as soon as possible because otherwise s/he will not be able to continue to enjoy from the sorting of **QSL** cards and neither will anyone else be allowed to take his cards for him without having paid his membership.

As always, I hope that you find the information in the magazine useful to you and if you have some article please leave it in my **QSL** box or you can send it to me on my e-mail **9h1av at searchmalta dot com**.

Lawrence

9H1AV/9H9MHR/9H79AV

Committee Notice

There are still a number of members who although we are in May have still not paid their membership.

The Committee feels that it is not just with the rest of the members who are prompt to pay their membership that those members who have not paid continue to be given the services offered by **MARL**.

Therefore, the Committee decided that those members who have not paid will have their call sign label removed from their **QSL** box and that their cards will not continue to be sorted.

The Committee also decided that their cards will not be allowed to be taken by someone else because it is not right that there are some who do not pay membership and someone else will take their cards and will thus still be served without paying membership.

It should be said that there are some who come to the yearly drinks and do not even take the opportunity to pay their membership and we do not see them again. Everyone who can reason knows that this is not right and just with the rest of the members.

I also remind all those who have not paid up their membership that they can pay the Financial Secretary who is at the **MARL** Centre every Sunday or they can send a €**3** cheque payable to **MARL**.

A New Transistor

According to a news report on The Telegraph from the United Kingdom on Monday 24 May, <http://www.telegraph.co.uk/technology/news/7759347/Scientists-create-worlds-smallest-electronic-switch.html> scientists in Australia succeeded in making the smallest transistor yet.

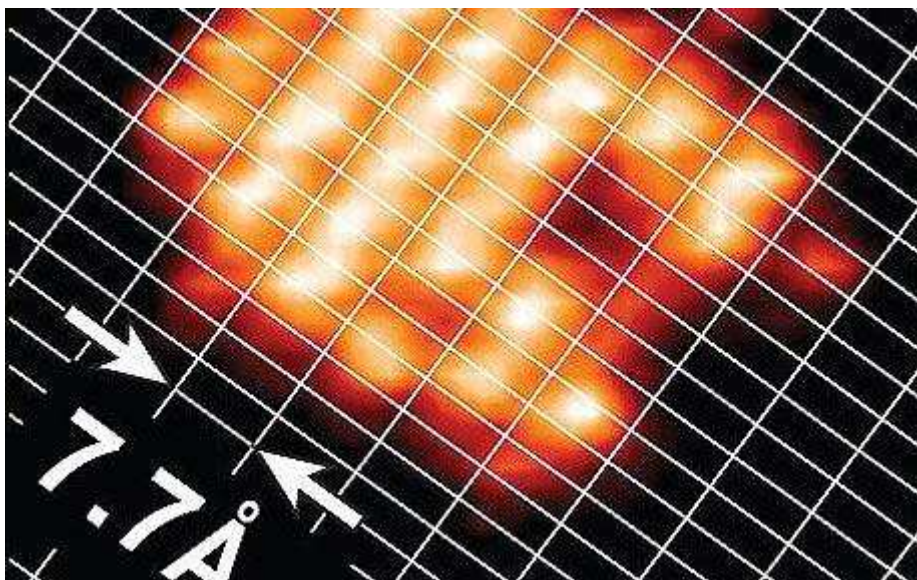


Photo www.telegraph.co.uk

It has only 7 atoms and measures just 4 billionths of a metre (4 nanometres), and is the first step in a “quantum computer” which will make calculations millions of times faster than existing devices.

Michelle Simmons http://www.qcaustralia.org/bio/staff_simmons.php the leading researcher said that the technology has great implications for code-breaking, financial transactions and weather forecasting which involve testing enormous numbers of possible scenarios.

She said that it would be possible to solve problems that you'll be able to solve problems that would take longer than the life of the universe with a classical computer.

The Centre for Quantum Computer Technology of the University of New South Wales (**CQCT**) <http://www.qcaustralia.org/> worked together with the University of Wisconsin-Madison <http://www.wisc.edu/> to create this transistor by using a special microscope.

It was said that this breakthrough will reduce the size of integrated circuits that contain billions of transistors by up to a 100 times and at the same time increase speed exponentially.

Miss Simmons said “Australia's first computer was commissioned in 1949. It took up an entire room and you could hold its components in your hands. Today you can carry a computer around in your hand and many of its components are more than 1000 times smaller than the width of a human hair.”

“Now we have just demonstrated the world's first electronic device in silicon systematically created on the scale of individual atoms.”

Miss Simmons said commercial applications for the technology were about five years away. Her team is now working towards the first ultra-fast quantum computer, predicted to be the size of a current silicone chip.

Lawrence

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VLF 8.97kHz

You should know that radio amateurs in other countries also experiment on very low frequencies that are on audio frequencies. Among those experimenting on them there are those appearing on this table which is from <http://www.qru.de/vlf.html> as well as from <http://homepage.ntlworld.com/laphorn/earthmode.htm>

Call Sign	Frequency	Power	Antenna	Best DX
G0AKN	6kHz	1kW	Earth Rods	10.0km
KC6QPO	0.6-5kHz	100W	E Field	3.3km
DJ2LF	8.95kHz	6W	Earth Rods	1.3km
	8.95kHz	14W	E Field	2.5km
DK8KW	8.93kHz	10W	E Field	1.0km
KD4RLD	8.8kHz	100W	Earth Rods	10.0km
	7000 Hz	“	“	“
	6000 Hz	“	“	“
DL5KZ	10kHz	4W	Earth rods	3.0km
DF6NM	8.969kHz	20W	Kite	4.5km
VK2ZTO	8.975kHz	380W	Earth Rods	1.6km
G3XBM	1kHz	4W	Earth Rods (10m base)	0.3km
IW3SGT	8.9kHz	8W	Not known	0.1km

Stefan, DL7FC <http://www.qrz.com/db/DK7FC> had long been planning to try to transmit on a frequency of **8.97 kHz** for some weeks. This frequency is known as the “Dreamers Band”, probably because the wavelength is **33 kilometres**.

He had everything ready and on 15th March started trying with a kite antenna and an enormous coil. Many had predicted that the range will be a few kilometers, but his signal was received by a number of listeners, most notably by **Paul Nicholson** in the **United Kingdom – 858.7 km** away.

On 23rd March **Stefan** made his third test on **8.97 kHz** during the weekend using a kite antenna. His **QRSS** signals were identified without any doubt by **Jim M0BMU**, as well as in The Netherlands and Italy. Not bad for audio frequencies isn't it?

If you want to make a receiver you have a circuit and an explanation on this link <http://sites.google.com/site/g3xbmqrp/Home/10khz>

While we are on very low frequencies, hereunder you have a list of stations and their frequencies for whoever wants to try to listen. Last time I had given you some of them but now you have more details and frequencies.

LAT	LON	FREQ C/S	LOCATION	FORMAT	kW
50.07N	135.6E	11905Hz RA1	Komsomolsk-na-Amur, Russia	CW	
45.40N	38.18E	12649Hz RA2	Krasnodar, Russia	CW	
55.76N	84.45E	14881Hz RA3	Novosibirsk, Russia	CW	
59.91N	10.52E	16400Hz JXN	Kolsas, Norway (NATO)	FSK On/Off	45
8.47N	77.40	18200Hz VTX	Katabomman, India	FSK	
40.70N	1.25E	18300Hz HWU	Rosnay, France	MSK	400
52.71N	3.07W	19600Hz GBZ	Anthorn, Great Britain (NATO)	FSK	30
21.80S	114.20E	19800Hz NWC	North West Cape, Australia (USA)	MSK	1000
40.88N	9.68E	20270Hz ICV	Isola di Tavolara, Italy (NATO)	MSK	20
25.03N	111.67E	20600Hz 3SA	Changde, China	FSK	
39.60N	103.33E	20600Hz 3SB	Datong, China	FSK	
40.70N	1.25E	20900Hz HWU	Rosnay, France	MSK	400
20.40N	158.2W	21400Hz NPM	Lualualei, Hawaii, USA	MSK	424
40.70N	1.25E	21750Hz HWV	Le Blanc, France (NATO)	MSK	200
52.40N	1.20W	22100Hz GQD	Anthorn, Great Britain (NATO)	FSK	
32.04N	130.81E	22200Hz JJI	Ebino, Japan	FSK	200
53.10N	7.60E	23400Hz DHO	Rhauderfehn, Germany (DHO)	FSK	800
44.65N	67.30W	24000Hz NAA	Cutler, Maine, USA	MSK	1000
48.20N	121.9W	24800Hz NLK	Jim Creek, Washington, USA	MSK	192
46.35N	98.33W	25200Hz NLM	LaMoure, North Dakota, USA	MSK	
37.43N	27.55E	26700Hz TBB	Bafa, Turkey	MSK	
65.00N	18.00W	37500Hz NRK	Grindavik, Iceland (USA)	MSK	
18.00N	67.00W	40750Hz NAU	Aguado, Puerto Rico (USA)	MSK	100
38.00N	13.50E	45900Hz NSC	Sicily, Italy (USA)	MSK	

Also have a look on these links

500kHz beacons http://home.arcor.de/dk7om/cen_medfers.html

Radio waves below 22 kHz <http://www.vlf.it/>

Lawrence

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70 MHz

Radio beacon from the USA on 70 MHz

In January, **Brian Justin, WA1ZMS**, from Forest, Virginia, applied with the **FCC** to be granted an experimental license for a radio beacon for propagation studies on a frequency of **70 MHz**. His request was accepted and he was given the call sign **WE9XFT** and on 3 May he switched on this radio beacon on a frequency of **70.005 MHz** with a power of **3 kW e.r.p.** and is transmitting towards Europe. This beacon is operating 24 hours a day.

He also has another beacon on **144.285 MHz** with a power of **500 Watt** and an **e.r.p.** of **7 kW**. This is synchronized with a **GPS**, with **2 yagis** of **5 elements** each with a direction of **60°**. The two beacons may be heard in the USA and Europe.

Romanians also have 70 MHz

As from 14 April 2010 Romanian radio amateurs were permitted to also use this frequency and all they have to do is to notify the National Agency **ANCOM**. All licence classes may use this frequency including novices. This information was given by **Romeo Catalin Gales, YO4RST**

Estonia

On 31 March 2010 the Minister for Economic Affairs and Communications of Estonia made changes to the National Frequency Plan and Regulations for Amateur Radio Use in the country which regulations came into effect on 4 April 2010.

70.000-70.050 MHz

Radio beacons with a call sign ES#VHF, 100 W ERP

70.050-70.300 MHz

License class A ES#A...ZZ, 1 kW*

License class B ES#AAA...ZZZ, 100 W. Also applies to visitors from **CEPT** countries.

License class D ES#AAAA...ZZZZ, 10 W

* in the administrative district of **Ida-Virumaa** that is in the Eastern part of the **ES4** area (East part of **KO39** and including the Western part of **KO49 WWLs**) a maximum of **100 Watt** transmitter power are permitted.

Use – on the basis of a regular license, all modes according to the frequency plan and the recommendations of **IARU Region 1**.

Hong Kong

HARTS is now operating a radio beacon on 4 metres with a temporary permit from the local telecommunications authority.

Call sign: VR2FOUR

Frequency: 71.575 MHz (CW)

Power: 3 W

Antenna: Omni vertical 10M Gholi mill-art

Location: Yuen Long, Territorji Godda, Hong Kong (OL72AL)

Transmission time: 1500 - 0300 UTC

CW message: VR2FOUR QTH OL72AL
 End of temporary permit: 31.8.2010

And Malta?

Lawrence
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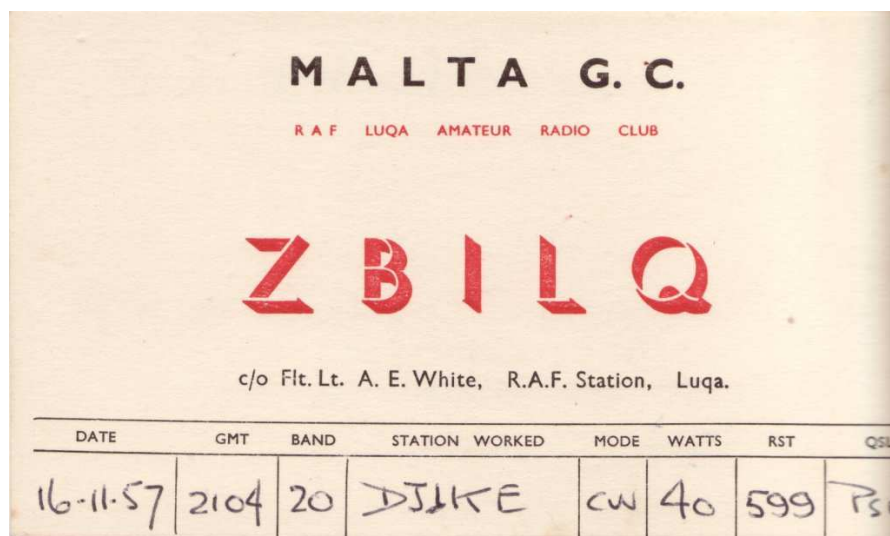
Old QSL cards

Some time ago I had brought you some QSL cards that I had found on a radio amateur internet webpage. Today you have some other QSL cards thanks to Ivan, 9H1PI who passed them on to me to be able to put them on this magazine. It appears that they are all for contacts with DJ1KE Hans.

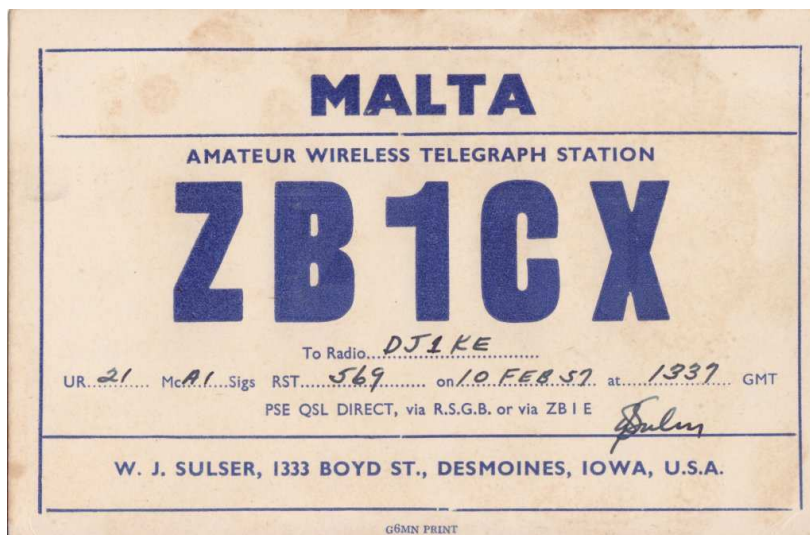
If there is anyone who has an old QSL card from Malta please pass it on to me so that we will be bale to put it on the magazine to remain for posterity.



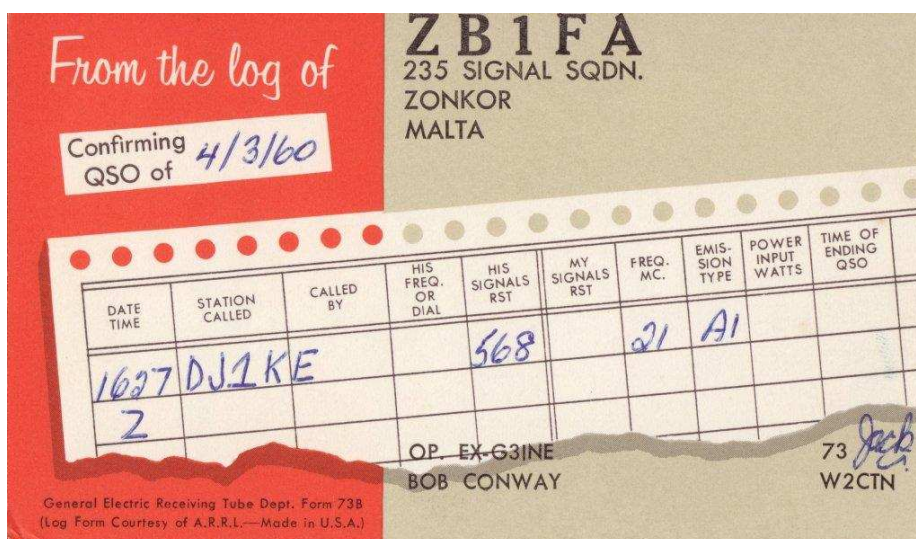
ZB1CP Arthur A Milham (Buster) lil DJ1KE Hans, Date 25.05.1057, QRG 7 MHz, Time 2140 BST, Report 579, CW Conditions FB, Tx VFO/CO, FD (x2), BA, PP PA, Power 10W, Rx 109, Ant Dipole,



ZB1LQ Ft. Lt. A. E. White from the RAF station at Hal-Luqa to DJ1KE Hans, Date 16.11.1957, QRG 14 MHz, Time 2104 GMT Report 599, CW, Power 40 Watt



ZB1CX W.J. Sulzer who was a QSL manager to DJ1KE Hans, Date 10.02.1957, QRG 21 MHz, Time 1337, Report 569, CW



ZB1FA Bob Conway ex-G3INE, to DJ1KE Hans, Date 04.03.1960, QRG 21 MHz, Time 1627Z, Report 568, CW.

It's good to note that he was working from the Station that the British had at Iż-Żonqor, Wied il-Ghajn.

The Card is signed by **W2CTN Jack**, who was a QSL manager, although when I did some research I found that **W2CTN** was listed as **John M. Cummings** (<http://www.cq-amateur-radio.com/HallofFameList4207.pdf> , <http://www.cq-amateur-radio.com/dxhof.html> , while on <http://www.reocities.com/CapeCanaveral/Hangar/4073/w3hnk.html> he is listed as **Jack**).

Thanks to **Ivan 9H1PI**.

Lawrence
9H1AV/9H9MHR/9H79AV

Equipment for MARL

You should know that **MARL** has succeeded in acquiring some old equipment for the museum that was always on the minds of the different committees. Here you have some photos of this equipment.

One of them is a receiver which is still in its original box and covers between **1.4 MHz** and **4 MHz**. The other is a **VHF** transmitter where further down you have some information about it.



This is the 1.4 MHz to 4 MHz receiver with three valves



VHF Transmitter

This transmitter which until recently was still working and giving an important service was brought to the **MARL** Centre and being re-assembled after **MARL** save it from being scrapped. This was used as a beacon transmitter and it is an unforgivable sin that such equipment ends up scrapped because some more modern equipment is brought.

Although someone had informed me that it has been working since the nineteen fifties, this transmitter is in a good state to work and there is the intention to maintain it in a good state. It is important that anyone who knows about any equipment that is going to end up being scrapped to inform **MARL** so that if possible it will be acquired for our museum.

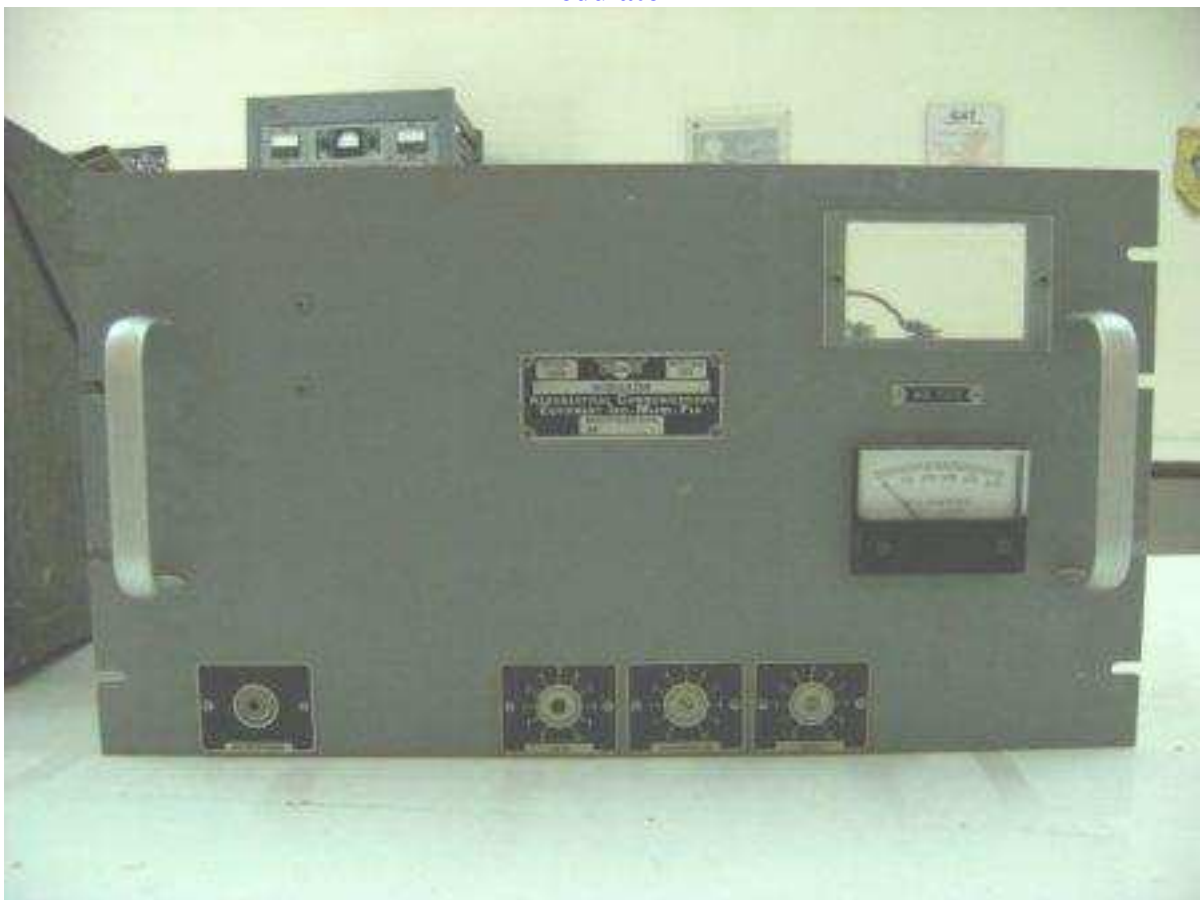
This does not mean that we only want old equipment, but any equipment whose owners no longer want would be good to acquire for this museum so that we will have a radio and other equipment museum as there are in other countries.

It is a sin that much equipment was destroyed when we could have saved it because otherwise today we would not only have had a big museum but it could also be enjoyed by the Maltese people and tourists.





Modulator



This transmitter is made by Aerocom, Aeronautical Communications Equipment Inc Miami.

The model is 1000P2V and its serial number is Ser. No. 263 and the modulator used two valves number 4-250A. More details will be given later.

Lawrence

9H1AV/9H9MHR/9H79AV

MARL Activities Committee Notice

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I also remind all those who have not paid up their membership that they can pay the Financial Secretary who is at the **MARL** Centre every Sunday or they can send a €23 cheque payable to **MARL**.

Yahoo Group

Be attentive and become members in the yahoo group to be fully informed with the latest activities that we intend to hold.

Do not forget that we may have activities which may not be able to appear on this magazine because it may have already been issued and therefore the notice will be sent on the yahoo group.

Send an e-mail to Ivan, **9H1PI** ivan.privitera at gmail.com to become members in the group.

We remind you that whoever wants to can download the Magazine from www.9h1mrl.org/newsletter.htm

Lawrence

9H1AV/9H9MHR