



# HIGHVELD AMATEUR RADIO CLUB

## SHACKNEWS

PO Box 19937 Sunward Park 1470

JANUARY 2007

Website <http://www.qsl.net/zs6hvb/> e-mail [http://zs6hvbinfo@zs6ro.co.za/](mailto:zs6hvbinfo@zs6ro.co.za)  
<http://www.qsl.net/zs6ssc/>

Sunday morning BULLETINS - 145.7875 MHz & 7062 KHz @ ±08h45.

### SILENT KEY

Johnny Duplessis, ZS6EH, passed away on 17 January 2007.  
Johnny had been a member of the HARC for many years.

### SILENT KEY

Reg Hartslief, ZS6ALH, passed away on 20 January 2007.  
Reg has been a member of the HARC for many years.

*We will miss them both*

### COMMUNICATION IS THE NAME OF THE GAME

**Meeting** No meeting was held at the beginning of January. First meeting for 2007 will be held on the 3<sup>rd</sup> February. Dates for the year are attached.

**SSC Meeting** This was held on 13<sup>th</sup> January at QTH of Berridge and Sandra. A good turnout (16 per the register and 17BOC. Who forgot to sign the register?) of amateurs and partners enjoyed the afternoon. The meeting on the 10<sup>th</sup> February will be held at the QTH of Doug and Merle.

---oooOOOooo---

Bob and his wife live in Wisconsin. One winter morning while listening to the radio, they hear the announcer say, "We are going to have 4-6 inches of snow today. You must park your car on the even numbered side of the street, so the snowplough can get through".

Bob's wife goes out and moves her car.

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Vice Chairman	Frank van Wensveen	ZS6TMV	011-942-3657
Secretary / Treasurer:	Berridge Emmett	ZS6BFL	011-893-1291
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Shacknews Editor:	Berridge Emmett	ZS6BFL	011-893-1291
Shacknews-Print & Posting:	Harry Lautenbach	ZS6LT	011-888-5362
Website Manager	Yvonne Van Dijk	ZR6TBL	011-942-3657
QSL Manager:	Reg Hartslief	ZS6ALH	011-902-1432

A week later while they are eating breakfast, the radio announcer says, "We are expecting 6-8 inches of snow today. You must park your car on the odd numbered side of the street, so the snowplough can get through."

Bob's wife goes out and moves her car again.

The next week they are having breakfast again, when the radio announcer says "We are expecting 8-10 inches of snow today. You must park....."

Just then the electric power goes out. Bob's wife is very upset, and with a worried look on her face she says, "Honey, I don't know what to do. Which side of the street do I need to park on so the plough can get through?"

With the love and understanding in his voice like all men who are married to blondes exhibit,

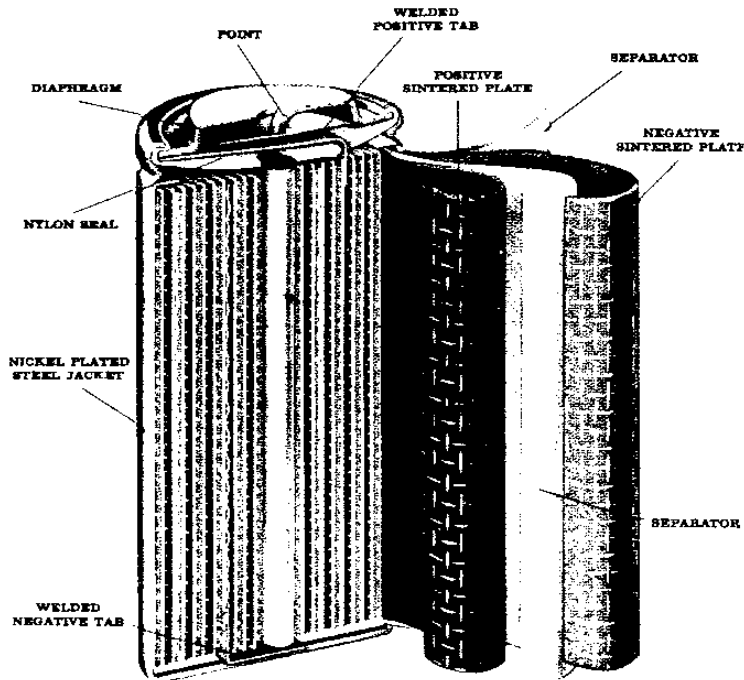
Bob says, "Why don't you just leave it in the garage this time?"

---oooOOOooo---

## SEALED NICKEL CADMIUM CELLS

Plates for sealed nickel cadmium cells are made of nickel-plated steel mesh, onto which finely divided carbonyl nickel powder is sintered at high temperature. The resulting thin, highly porous plaques are then impregnated with nickel salts (positive plate) and cadmium salts (negative plate). One positive and one negative plate separated by a non-woven nylon cloth are rolled up to form a tight core, which is inserted into a nickel plated steel can. The tab from the negative plate is welded internally to the bottom of the can and the can cover is welded to the positive plate tab. A carefully measured amount of electrolyte is added and the cell is compression-sealed, with a plastic ring between the cover and the can.

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## CHARGING

For optimum battery performance and life, the charging currents and times given below should be adhered to and charging should be carried out at normal room temperature.

The charging currents are based on the capacity ratings of the cells as listed. The Ampere-hour capacity designated 'C' is divided by a given number, and the quotient obtained represents the required charging rate in Amperes.

**Continuous Charge** - A permanent charging current of  $C/20$  Amperes will recharge a battery in about 28 hours and then maintain it permanently in a high state of charge. Ideal for batteries used in small fixed emergency lighting units.

**Normal Charge** - A constant charging current of  $C/10$  Amperes will restore a discharged battery to a fully charged state in 14 hours. This is the type of charge recommended for batteries which are discharged and charged regularly - such as in portable communication equipment, models, radio control transmitters, etc.

**Trickle Charge** - A permanent trickle charge current of  $C/70$  Amperes will ensure that after a normal charge the battery remains in a fully charged state until required. This is recommended for applications where the battery is used at irregular intervals - typically in portable medical equipment.

**Charge Retention.** - 70 per cent capacity would be available from a battery that has stood on open circuit for 30 days at room temperature.

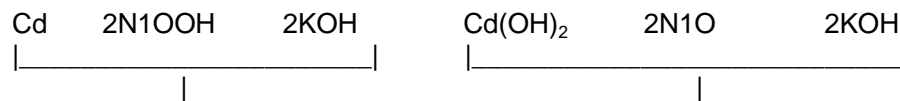
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## DESCRIPTION

Rechargeable nickel cadmium cells open a wide range of industrial and consumer applications wherever compact, light weight long lived power is required. The cells are cylindrical physically interchangeable with conventional dry cells and they range from 0,45Ah to 4Ah in capacity. The sintered plate construction of the cells results in low internal resistance, which enables the cell to withstand high discharge rates. The cells are ruggedly constructed in nickel-plated steel cans with spot welded internal connections.

## HOW IT WORKS

The chemical reaction within the nickel cadmium cell is completely reversible and may be expressed as follows:



Note that the electrolyte has not changed its chemical composition, and only acts as a path for ion migration.

In a vented cell, if the charge is continued after both plates become fully charged, oxygen will be evolved as gas at the positive, and hydrogen at the negative. The water thus dissociated has to be replaced by periodic topping up.

If, however, the capacity of the negative plates was purposely made greater than the positive and the active material was not fully charged initially, the positive plate would reach the fully charged state first, while the negative was still only partly charged. The cadmium negative plate in a charged state readily takes up oxygen. Thus, if at this point all the oxygen evolved at the charged nickel positive could be made available to the cadmium negative, it would tend to discharge it, and a state of balance would be achieved where neither oxygen nor hydrogen would be given off as free gas, i.e. the negative plate would never become fully charged.

This state of affairs is achieved in the sealed cell and maintained in practice by careful design, controlled manufacture and correct operation.

---oooOOOooo---

A husband and wife came for counselling after 15 years of marriage. When asked what the problem was, the wife went into a passionate, painful tirade listing every problem they had ever had in the 15 years they had been married.

She went on and on and on: neglect, lack of intimacy, emptiness, loneliness, feeling unloved and unlovable, an entire laundry list of un-met needs she had endured over the course of their marriage.

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Finally, after allowing this to go on for a sufficient length of time, the therapist got up, walked around the desk and, after asking the wife to stand, embraced and kissed her passionately.

The woman shut up and quietly sat down as though in a daze. The therapist turned to the husband and said, "This is what your wife needs at least three times a week. Can you do this?"

The husband thought for a moment and replied. "Well, I can drop her off here on Mondays and Wednesdays, but on Fridays, I fish".

---oooOOOooo---

73 Berridge ZS6BFL

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# MEETINGS

# 2007

 HVB

 SSC

 YEAR-END-SOCIAL

## January

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

## February

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28			

## March

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

## April

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

## May

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

## June

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

## July

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

## August

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

## September

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

## October

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

## November

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

## December

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					