

KAUAI ARC NEWS

Vol. I No. 1

January 1988

WOW!!! A NEWSLETTER!!!!

YES! This is a newsletter from KARC coming your way in an effort to bring more amateurs into active participation at events and meetings. Membership input for articles and news will be needed to keep this a viable and wanted feature of membership. Contributions may be sent to WH6AXL - Kimo Ahia at 4160 Omao Road, Koloa 96756 or the club address on the masthead. Photos should be clear and black & white half tone. Ideas can also be called in at 245-4031 days and 742-1565 evenings.

Volunteers will be greatly appreciated even for mailing out. This is your newsletter so help it become what you would want it to be.

NEXT MEETING

Mark Monday nite February 1 as the next meeting of KARC at the Kalaheo Community Center starting at 7:30 PM promptly. Joe Soares has promised not to have any business portion go over one hour. We will have a show&tell program put on by Gerry Hill. Hope to see all of you there.

VEC'S SCHEDULE EXAMS

Your next chance to up-grade or take an exam will be 9:00 AM Saturday Feb. 13th at the First Hawaiian Bank Conference room in Lihue. Call Bill Baisley-KH6S at 332-9925 if you plan to attend. Need to have \$4.55 fee, original and a copy of your license plus some pencils.

JANUARY MEETING HELD AT CD

The first meeting of 1988 was on January 4 at the Civil Defense Center with KH6AJ - Joe Soares president. Only 12 were in attendance: KH6AJ, KH6DLW, AH6CG, WH6Z, KH6HU, KH6BAS, KH6zt, KH6F, KH6LG, KH6DXO, WH6AXL, and Ed Pollock.

AH6CG reported for the treasurer that we had a balance of \$566.48 after paying out \$1437.00 to the Spectrum Company for a new repeater to replace the old GE Master Procline at the Wilcox site. With the replacement will be a change in frequency to 146.78 from 146.82.

No old business was discussed and various committee reports made. KH6HU reported on the education efforts at Waimea High and also the comprehensive material now required for the novice exams.

Under new business the membership approved a budget of \$200.00 for the monthly publication of a newsletter since there was a volunteer with the capability of attempting it. This will be sent out to all current members and once in a while to all amateurs on the island as a courtesy.

- Several announcements were made:
- 1 - Volunteers will be solicited to assist in the Captain Cook Caper in February at the next meeting.
 - 2 - Joe Soares asked for members to bring in suggestions as to what the membership would like to see in programs and activities to the next meeting.
 - 3 - Next meeting is February 1, 1988 at the Kalaheo Center, 7:30 PM.

IT'S DUES TIME AGAIN

Membership dues of \$12.00 are now due for Kauai Amateur Radio Club. Bring them to the next meeting or mail them to the club address: KARC, P.O. Box 548, Kalaheo, HI 96741.

1988 OFFICERS & CHAIRS

President	Joe Soares	KH6AJ
Vice Pres	Ryoko Sokei	KH6DLW
Secretary	Patty Kaliher	NH6AO
Treasurer	Mitchell Oishi	NH6JC
Activities	Al Morgan	KH6ZT
Education	Gerry Hill	KH6HU
QSL Cards	Jack Wada	KH6LG
Awards	Juan Lorenzo	KH6JJC
ARES/RACES	Bill Baisley	KH6S
HF	Ron Kokubo	KH6E
EC	Bill Baisley	KH6S
Newsletter	Kimo Ahia	WH6AXL

KH6 LAND HI-LITES....

From the Big Island the best news comes with BIARC being named the Club of the Year for the Pacific Division in the large club category. This was announced by Rod Stafford during his visits last November.

On Maui they now have 75 hams in the Maui County ARES and signed up 6 new members in 1987.

EARC on Oahu reports that their services were not needed for that devastating New Year's Eve storm that flooded south Oahu.

John Oka - KH6DQ our KH6QSL Bureau Manager will be throwing out all unclaimed QSL cards dated before September 1987. Do you have enough SASE envelopes with attached postage on hand at the bureau? Get some envelopes to him as a matter of courtesy or notify him in writing if you do not wish to have the cards. Also have envelopes on hand with your old calls if you have been changing them as you upgraded.

New officers for the various clubs that we have news from are:

BIARC (Hilo)

President	Dean Manley	KH6B
Vice Pres	Ted Ross	AH6GD
Secretary	Ham Kaneshiro	AH6HB
Treasurer	Corky Kirk	W6ORS

HARC (Honolulu)

President	Norm Funamura	KH6R
Vice Pres	Francis Blatt	KH6KH
Secretary	Joe Hao	WH6F
Treasurer	Wallace Mitchell	KH6EEU

BATTERIES

Our study of batteries must be limited because there are volumes of information on the subject. We will address the differences in "SLI" and "deep cycle" lead acid batteries. SLI or "starting, lighting and ignition" is more commonly called a car battery. Deep cycle is also known as a station battery and used to supply emergency power to telephone or electronic equipment in many applications. There is also a lead acid battery known as a "gel cell".

"MODERN BATTERIES" by Colin A. Vincent published in 1982 says almost a hundred million SLI batteries are manufactured annually using one third of the total world output of lead. Such batteries are called upon to supply up to 200 amps starting current for short periods of time. Their capacity is generally about 100 amp hours depending upon the discharge rate. They work best when promptly recharged at a fairly high rate. The "ARRL HANDBOOK" says if a car battery is allowed to discharge from its normal 2 volts per cell to 1.75 volts per cell only 50 cycles charge and discharge can be expected.

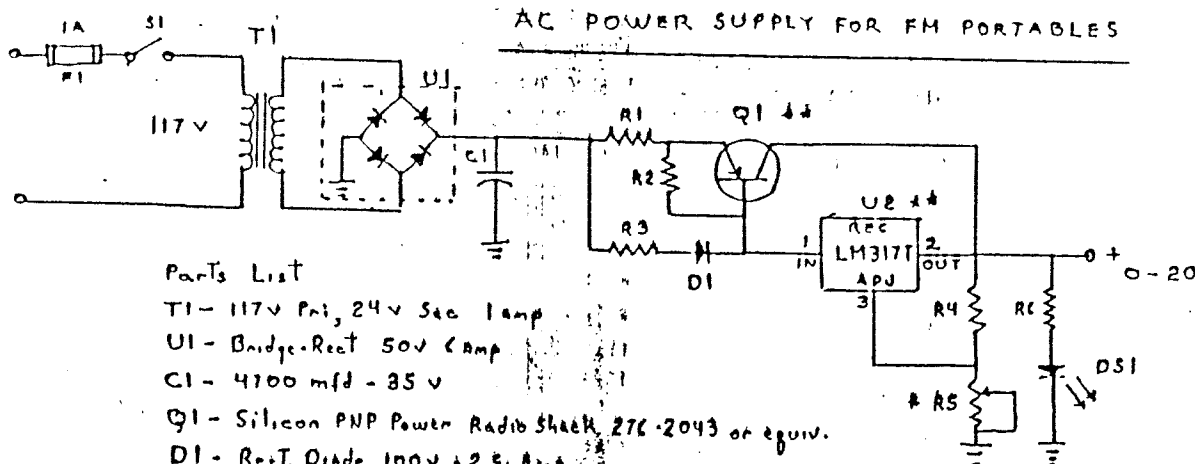
Deep cycle batteries can be expected to last 200 cycles or more. In most "battery back up" situations the battery is "float charged" at a low rate. The plates are wider spaced and the internal resistance is higher so high rate discharges are not good for them. Deep cycle batteries work best if they are recharged at a slow rate.

The gelled-electrolyte lead acid battery cannot tolerate overcharging, even at very low rates. Voltage is monitored and charging is terminated when a full charge is reached.

Here are some rules for best results in handling any type of lead acid battery. USE CAUTION!, these batteries contain acid and sparks have been known to set off explosions of escaping hydrogen gas. Use protective clothing and glasses. HANDLE CAREFULLY! Should you get sprayed, wash right away with plenty of water and neutralize the acid with a base such as baking soda. (I always keep baking soda near when working with batteries.) Use distilled water to fill batteries. (Rain water is better than tap water but distilled is best) Don't move or pick up batteries by their terminals. It will cause small cracks by the posts and acid will "creep" through and mess up the connections. Ventilate any area where lead acid batteries are used to prevent a build up of hydrogen gas. Don't let a battery get too hot or too cold. There are probably other safety rules but the best is ALWAYS BE CAREFUL AND BE ALERT.



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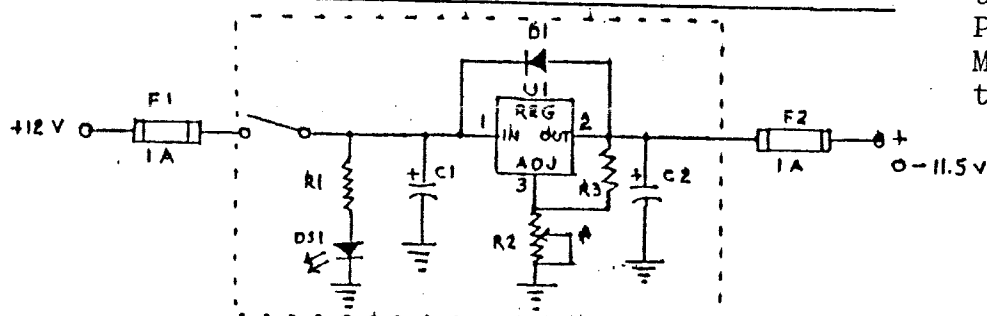
Parts List

- T1 - 117V Pri, 24V Sec 1 amp
- U1 - Bridge Rect 50V 1 amp
- C1 - 4700 mfd - 35V
- Q1 - Silicon PNP Power Radio Shack 27C-2043 or equiv.
- D1 - Rect. Diode 100V 2.5A
- DS1 - Green LED
- U2 - LM317T Regulator
- R1 - 1 ohm 2W
- R2 - 10 ohm 2W
- R3 - .33 ohm 2W
- R4 - 220 ohm 1W
- R5 - 2500 ohm 2W ADJ *
- R6 - 560 ohm 1/4W

NOTES:

- * USE VARIABLE TO ADJUST TO VOLTAGE NEEDED & REPLACE WITH A FIXED VALUE RESISTOR
- ** USE PROPER HEATSINKING FOR Q1 & U2. BODIES MUST BE INSULATED FROM CHASSIS OR HEATSINK
- CAUTION!
FOR FM PORTABLES ONLY
NOT DRAWING MORE THAN 1.5 amp
INTERMITTENT DUTY

AUTO POWER SUPPLY FOR FM PORTABLES



Parts List:

- U1 - LM317T-Positive *
- R1 - 560 1/2W
- R2 - 6 = 2,500 1W (see note) *
- R3 - 220 1/2W
- C1 - 1000 uf 35V
- C2 - .33 uf 35V Tantalum
- D1 - Silicon power Diode 1N4001 etc
- DS1 - Green LED

* Note:

- USE VARIABLE TO ADJUST TO VOLTAGE NEEDED & REPLACE WITH A FIXED VALUE RESISTOR
- ** USE PROPER HEATSINKING BODY MUST BE INSULATED FROM CHASSIS OR HEATSINK
- CAUTION!
FOR FM PORTABLES ONLY
NOT EXCEEDING 5W. RF MAX

NEW SM FOR HAWAII & PACIFIC

Jonathan Starr - AH6GJ has been named to succeed Army Curtis - AH6P as Section Manager of the Pacific Section, ARRL. AH6GJ was declared elected when AH6P withdrew from the section manager's race. Jon is formerly from New York and a resident of Kaupo on Maui. He served as vice president of the Maui ARC in 1987 and is trustee of the club station KH6RS. He is one of the prime movers behind the effort to maintain

and upgrade the Haleakala 146.94 rpt. He is also very active in both local and Pacific area packet networks. Jon is working closely with Army to effect a smooth transition come April first.

We spoke with Jon recently over the inter-island 2 meter link and he is looking for people willing to serve in the various appointive support positions for the section.. Contact him on the link if you are interested or by mail.

LOCAL REPREATERS

AREA & LOCAL NETS

Keep in touch with others and your fellow club members by checking into the following nets:

Kauai ARES. Monday 8:00PM 146.92
RACES (stste) Monday 7:00PM 147.04
Afternoon Net Daily 4:00 PM 7290

HST	Day	Net	Freq.
2000	Mon	Kauai Emergency	146.92
1900	Mon	State RACES	147.04
1600	Dy	Hawaii Afternoon	7290
0700	M-F	California/HI	14340
0900	DY	Friendly	7285 / 3855
1130	M-F	Maritime Mobile	21404
1500	DY	Pacific Maritime	14313
2200	DY	Pacific InterIsle	14315

Working the nets is the best way to get experience in handling traffic and working during an actual emergency.

The following are listed by their output frequencies and the sign for input offset.

Location	Freq.	Call	Sponsor
Lihue	146.82-0AE	KH6DLW	KauaiARC
Kekaha	146.86-0	KH6ENC	HANG Ama.
Kalaheo	146.92-0	KH6S	KauaiARC
Lihue	147.04+0	NH6FJ	State CD
Hanalei	147.16+0E	AH6EC	KauaiARC
Lihue	147.34+0*	KH6BFU	KH6BFU
Kalaheo	449.25 0	KH6JI	KH6JI

* Repeater is open but activated at owners convenience.

KH6DLW repeater will have a frequency change to 146.78- when the new gear from Spectrum is installed, probably by early March.

AUTOPATCH is accessed by Identifying yourself, dial *(star) and the number without stopping, listen to the read back, key, number will dial. Close with dialing # (lb. Sign)

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FIRST CLASS DATED MATERIAL

