OCARC MEETING MINUTES 7-18-80

1. Early Bird drawing was won by Judy WA6HE1, who was not present and therefore passed over till next meeting.

2. Pledge allegiance was given to the Flag.

3. Minutes of last meeting were accepted as printed in R.F.

4. Al Watts announced that we have until November to get our money in for the Christmas party.


6. New Members introduced were Jim Wright, Sid Shishido (H6AQG) and Oscar Alonso (K6GJI)

7. Visitors - Bruce & Muriel Plowman (VK3QC), Paul Harlow (WA1YLS), Bryan Holdcraft (KA6LJW), Ralph Dyson, Beverly Victor (KA6KM) and Joseph & Lillian Christopher.

8. No Committee reports given.

9. Communications received by Secretary from FCC in response to Terrys 1978 letter telling us we can keep our Club Call Sign and letter from Calif. State requiring that we file a financial statement with State on Anniv. of Club.

10. Bills - None outstanding

11. Treasurers report - will be in R.F.

12. The resignation of the activities chairman and TVI chairman led to an election for these two offices. Frank Smith was elected activities chairman and Robin Hoff was elected TVI chairman.

13. Meeting was adjourned.

V. Alvey (N6AHB)
Secretary
-- 1980 CLUB OFFICERS --

**President**
ERNIE PRITCHARD
WA6FOW
530-0738

**Vice President**
AL WATTS
W6IBR
839-9368

**Treasurer**
LOU PARKER
KA6BQO
838-1211

**Secretary**
VIC ALVEY
N6AHB
544-8541

**Activities**
FRANK SMITH

**Membership**
DIXIE MATHERS
KA6DIQ
638-2565

**Publicity**
MURIEL PARKER
KA6BPJ
838-1211

**T.V.I.**
ROBIN HOFF
K6HNY
731-4809

**Member at Large**
TERRY MATHERS
WB6THZ
638-2565

MONTY CADUFF
WD6AUS
846-3572

**Editor**
BOB MALLER
WB6AJV
551-9572

---

Meeting: Third Friday of each month at: Time:
Mercury Savings and Loan 0330 U.T.C.
1095 Irvine Boulevard
Tustin, California 7:30 P.D.T.

OFFICIAL OCARC NETS

Look for the Club call, W6ZE, operating as net control station for the following nets. Everyone is invited to join in.

**80 M CW** - Every Wednesday evening, 7-8 PM (local time)
on 3.737 MHZ. Novices welcome, we will slow down!

**15 M SSB** - Every Wednesday evening, 8-9 PM (local time)
on 21.375 MHZ.

**10 M SSB** - Every Tuesday evening, 7-8 PM (local time)
on 28.775 MHZ.

**2 M FM** - Every Wednesday evening, 9-10 PM (local time)
on 146.55 MHZ, Simplex.

Breakfast: First Saturday of each month, 8:30 AM at the
Mile Square Golf Course Club House,
Warner and Brookhurst, Fountain Valley.

---

*CA VK CA VK CA VK *

The August program will be presented by Bruce Blowman, VK3QC.
Bruce has been a ham since 1938. He will tell us about the
Australian ham radio structure and outline the various activities
of amateur radio in Australia. Many of us have worked Australia
over the years and this program should be very interesting to all.
Why not look through your QSL cards and logs and bring along some
questions about VK's and their country. Among the various topics
Bruce will discuss will be Bushfire radio. It is hoped we will
have a really fine turn out for this program.

---

The deadline for the September "RF" is Monday, September 8.
Please submit articles to the Editor by that date.

Thank you,
Bob Maller, Editor
QST DE W1AW  
HR ARRL BULLETIN NR 79 FROM ARRL HEADQUARTERS  
NEWINGTON CT JUly 27, 1980  

TO ALL RADIO AMATEURS 

THE BOARD OF DIRECTORS OF THE AMERICAN RADIO RELAY LEAGUE MET IN SEATTLE, WASHINGTON, ON JULY 23 AND 24, 1980, JUST BEFORE THE ARRL NATIONAL CONVENTION. CONSISTENT WITH THE MAJORITY OF MORE THAN 600 COMMENTS FROM MEMBERS ON THE ISSUE, THE BOARD DIRECTED THE FILING OF A PETITION TO FCC REQUESTING THAT THE NEW 10.1 TO 10.15 MHZ BAND BE MADE AVAILABLE TO GENERAL, ADVANCED, AND EXTRA CLASS LICENSES FOR CW AND RTTY OPERATION ONLY, WITH AN INPUT POWER LIMIT OF 250 WATTS. 


IN OTHER ACTIONS, THE BOARD DIRECTED THE FORMATION OF AN INTERFERENCE TASK FORCE TO AID IN COMBATING MALICIOUS AND OTHER INTERFERENCE PROBLEMS IN THE AMATEUR BANDS, CREATED AN AD HOC COMMITTEE TO PREPARE A STRONG CASE FOR AN AMATEUR ALLOCATION IN THE BAND 902 TO 928 MHZ, REQUESTED THE ARRL FOUNDATION TO INITIATE A FUNDRAISING CAMPAIGN FOR THE AMATEUR SATELLITE PROGRAM AND PLEDGED TEN THOUSAND DOLLARS TO THE PROGRAM ON A MATCHING FUND BASIS, ELECTED JAMES MC COBB, K1LU, AS NEW ARRL TREASURER AND THANKED RETIRING TREASURER JOHN HUNTON, W1RW, FOR HIS 46 YEARS OF SERVICE TO ARRL IN A WIDE VARIETY OF POSTS, AND AUTHORIZED INCOMING QSL BUREAUS TO DISPOSE OF UNCLAIMED CARDS AFTER 90 DAYS INSTEAD OF ONE YEAR. THE BOARD THANKED ALL VOLUNTEER QSL BUREAU WORKERS FOR THEIR TIMLESS EFFORTS ON BEHALF OF THEIR FELLOW AMATEURS. AMONG OTHER BOARD ACTIONS WERE SEVERAL DEALING WITH FCC. ARRL WILL REQUEST THAT AMATEURS BE PERMITTED TO TRANSMIT DIGITAL DATA ABOVE 50 MHZ USING CODES OTHER THAN BAUDOT AND ASCII, WILL SUPPORT FCC PROPOSALS IN DOCKET 80-252 CONCERNING FACSIMILE AND SLOW SCAN TELEVISION, WILL SEEK EXTENSION OF INTERIM PERMITS IN CASES WHERE THE PRESENT 90 DAYS IS INSUFFICIENT TIME FOR THE UPGRADED LICENCE TO HAVE BEEN ISSUED, AND WILL DEFEND THE BAND 420 TO 450 MHZ FOR CONTINUED AMATEUR USE IN THE U.S. AGAINST PRESSURE FROM OTHER SERVICES. 

FINALLY, THE BOARD ENDORSED THE CONCEPT OF FCC RULES WRITTEN IN Plain NONTECHNICAL LANGUAGE. COMPLETE MINUTES OF THE ARRL BOARD MEETING AND A FURTHER REPORT ON THE DECISIONS OF THE BOARD WILL APPEAR IN SEPTEMBER QST. 

You will be interested to know that Fried, WA6WZO, will be running for election this fall for ARRL Director of Southwestern Division. In addition to being past president of our club, Fried, is also founder of the Southern California Ham Computer Club, an assistant ARRL Director, Chairman of the Orange County Council of Amateur Radio Organizations, and SCM for the Orange section. Gordon West, WB6NOA, another very active Orange County ham will be seeking election as vice-director.
GST DE W1AW
HR DX BULLETIN NR 29 FROM ARRL HEADQUARTERS
NEWINGTON CT JULY 31, 1980

TO ALL RADIO AMATEURS

THANKS TO THE SOUTHERN NEW ENGLAND DX ASSOCIATION FOR THE FOLLOWING DX INFORMATION.

VANUATU - YJ8IND IS HELPING TO CELEBRATE INDEPENDENCE AND IS ACTIVE ON ALL BANDS AND MODES. LOOK ON 14225 FROM 0800 Z. QSL TO BOX 39, PORT VILLA, VANUATU.

UNITED NATIONS - 4U1UN IS ON EVERY THURSDAY FROM 0000 TO 0400 Z ON 14028 AND ABOVE 14250. AT 2200 OPERATION BEGINS ON 21028 AND MOVES DOWN TO 20, 40 AND 80 METERS. OSCAR 8 OPERATION IS ATTEMPTED WHEN THE NOISE LEVEL PERMITS.

ANDORRA - C31MK ON UNTIL AUGUST 15 IS ON ALL BANDS AND MODES AND IS ESPECIALLY STRONG ON 14203 AT 0500 Z. QSL VIA EA3WZ.

SOLOMON ISLANDS - VK3OT WILL BE VISITING H44DX FROM AUGUST 3RD TO 6TH. STEVE PLANS MOSTLY CW OPERATION.

THE GAMBIA - C5ACO WILL BE ACTIVE THROUGH THIS WEEKEND. KARL HOPES TO OPERATE FROM THE CAPE VERDE ISLANDS, D4, NEXT WEEK. QSL VIA W2TK.

QUARIE ISLAND - VKOKH MAKES FREQUENT VISITS TO THE P29JS NET EACH DAY ON 14220 AT 0645 Z AND CAN OFTEN BE FOUND ON THAT FREQUENCY AFTER THE NET. QSL VIA VK5WV.

NAMIBIA - ZS3HL LIKES TO OPERATE SLOW CW IN THE TEN METER NOVICE BAND. HORSTS CARDS GO VIA WA1ZXF.

SERRANA BANK/BAJA NUEVO - WORD FROM HK0BXX IS THAT ONE OR BOTH ISLANDS MAY BE ACTIVATED IN THE FIRST HALF OF SEPTEMBER.

MALAGASY REPUBLIC - TN6AJ IS PRESENTLY AT HOME IN EAST GERMANY AND IS LOOKING FORWARD TO HIS NEXT ASSIGNMENT THIS FALL IN 5R8.

REUNION - PROFLO IS VERY ACTIVE ON THE LOW END OF 20 METER SSB FROM 1100 Z AND ON 3798 AND 7087 FROM 0000 Z. QSL TO BOX 200, TAMPON, REUNION ISLAND.

SOMOLIA - 60ØDX CONTINUES TO APPEAR ON 14208 FROM 2000 Z ON. HE WILL BE ACTIVE UNTIL AUGUST 15. QSL TO I2YAE.

JUAN FERNANDEZ - LOOK FOR POSSIBLE OPERATION BEGINNING AUGUST 8 WITH THE CALL SIGN OF EITHER CBØCJA OR CB5CJA/CBØZ.

AMSTERDAM ISLAND - FB8ZD IS OFTEN FOUND ON 14240 AT 0300 Z WITH AI5B.

TO ALL DX CONTEST. AFTER CONSIDERABLE INPUT FROM CONTEST PARTICIPANTS, BOTH PRO AND CON, THE CONTEST ADVISORY COMMITTEE, ARRL AWARDS COMMITTEE AND COMMUNICATIONS MANAGER HAVE RECOMMENDED THE ARRL DX CONTEST BE RETURNED TO ITS PREVIOUS FORMAT WITH OVERSEAS STATIONS WORKING USA AND CANADA AMATEURS ONLY. SINGLE BAND CATEGORIES AND THE EXPANDED AWARDS PROGRAM WILL CONTINUE. AN UPCOMING ISSUE OF QST WILL CONTAIN FULL DETAILS.
QST DE W1AW
HR PROPAGATION FORECAST BULLETIN NR 30 FROM ARRL HEADQUARTERS
NEWINGTON CT JULY 29, 1980

TO ALL RADIO AMATEURS

AS EXPECTED, THE SOLAR FLUX FELL STEADILY AFTER JULY 19, REACHING
151 ON THE 29TH. IT SHOULD CONTINUE TO FOLLOW THE CURVE OF THE
PREVIOUS SOLAR ROTATION GOING TO THE LOW 140S BEFORE TURNING
UPWARD IN EARLY AUGUST. THIS SHOULD MAKE NO SIGNIFICANT CHANGE
IN THE PROPAGATION PICTURE IN MIDSUMMER. THE NUMBER AND
INTENSITY OF SOLAR FLARES WILL BE THE GOVERNING FACTOR UNTIL
FAIL. FLARES WERE FREQUENT DURING JULY, SO HF CONDITIONS WERE
POOR TO FAIR DURING MUCH OF THE MONTH.

THE PRESENT RELATIVE QUIET IS LIKELY TO HOLD THROUGH THE END OF
THE MONTH BUT INCREASING GEOMAGNETIC ACTIVITY AND ABSORPTION OF
HF ENERGY ARE EXPECTED AUG 2 AND 3. THE BEST CONDITIONS OF
AUGUST ARE LIKELY TO COME BETWEEN THE 7TH AND 14TH. AMERICAN
RELATIVE SUNSPOT NUMBERS FOR JULY 17 THROUGH 23 WERE BETWEEN 238
AND 180, WITH A MEAN OF 225. THIS WAS THE MOST ACTIVE PERIOD
SINCE THE MAY PEAK, WHICH CAME FROM THE SAME AREA OF THE SUN TWO
ROTATIONS AGO.

TVI REPORT

The August issue of QST, page 34, has an interesting circuit for
construction of 144 MHz Stop Band TVI filters. According to the
article, the filter is capable of providing 50 to 60 dB of
attenuation over all of the 144 MHz band. With the onset of NFL
football season and the heavy use of 2 meters, these filters may
solve some problems. I would like to hear from anyone who has
tried these filters or has other solutions to 2 Meter TVI.

TVI within the ham's QTH is often a problem. At my QTH I found
that replacing the television lead-in wire and cleaning up the
antenna eliminated almost all of the problem. How many Hams pay
the same attention to their television antenna and feed lines as
they do to their ham gear?

While at the ARRL National convention last year in Baton Rouge,
Louisiana, I picked up two booklets from the Electronic Industries
Association which outline, with actual off-air pictures, many
different types of TVI and RFI. There are numerous solutions to
these problems given. You are encouraged to borrow these booklets
from me. I am attempting to obtain extra copies of them for club
distribution.

robin -/.../-...

P.S. I had hoped to submit for this month's issue an excellent
one page directory of all the Arizona repeaters. I have learned,
however, that the Amateur Radio Council of Arizona is now printing
a new updated list with a mile post map showing the actual
locations of the machines. Since many of us travel to Arizona,
this should be a helpful guide. It will be included in next
month's RF.
OCARC OFFICERS - 1941 (Part 9 - addendum to OCARC history - List of Club Officers)

President: Shelley Trotter, W6BAM  
Vice Pres: Johnny Shick, W6LQX  
Secretary: Ed Wood, W6GSZ  
Treasurer:  

Sgt. at Arms: Bob Porter, W6QIA

OCARC OFFICERS - 1942 - President: Roy Cumpston, W6IBN  
V. Pres: John Farwell, W6UFG  
Secretary: Howard Bogue, W6CFN  
OFFICERS MAY HAVE BEEN ELECTED, BUT CLUB SOON DISBANDED BECAUSE MEMBERS WENT INTO THE ARMED SERVICES FOR WORLD WAR II. (Officers were elected: above)

OCARC OFFICERS - 1945

President: Roy Maxson, W6DEY  
Vice Pres:  
Secretary:  
Treasurer:  

(*Club may not have reformed in 1945, but if it did, Roy Maxson was president).

OCARC OFFICERS - 1946

President: Roy Maxson, W6DEY  
Vice Pres: Lawrence McKoskey, W6TIK  
Secretary: A. VanCompernolle, W6FCT  
Treasurer:  

Activities: Hugh Compton, W6MKW

OCARC OFFICERS - 1947

President: Tommy Gentges, W6ALO  
Vice Pres: Samuel (Mac) McNeal, W6LDJ  
Secretary:  
Treasurer: A. VanCompernolle, W6FCT  

Activities: E. R. Anderson, W6FR

OCARC OFFICERS - 1948

President: Dale Bose, W6BWO  
Vice Pres: James Baggerman, W6YDM  
Secy/Treas: A. R. Van Compernolle, W6FCT  
Activities: S. M. MacNeal, W6LDJ (?)  

OCARC OFFICERS - 1949

President: Chuck Lunder, W6CGF  
Vice Pres: John Norris, W6CDV  
Secretary: A. Van Compernolle, W6FCT  
Treasurer:  

Activities: Shelley Trotter, W6BAM

(from Bob Evans, WB6IXN, Historian)  
Ph: (714) 543-9111
STAYING CHARGED OR THE REGULATED ALTERNATIVE
by
Bill Kohlenberger
W6J2E

Pardon a nonpersonal question, but how's your charge been doing lately? Are your rechargeable batteries ready for any sudden emergency need? As it turns out, we probably don't really know. We can only judge the condition of our NiCad or Gel-Cell batteries by how long it takes to run down. And when we put them on charge, there's no good way to tell when they have fully recharged. Then there's the stunning surprise when we find the H/T has been on an unknown duration.

Well for those who use 9 volt rechargeable batteries, e.g. the Tempo S-1, there is help. We can overcome the slowness of trickle charging, which usually won't keep up with the current drain if we need to use the radio during charging. The alternative is not more legislation but simply regulation. The use of a constant, regulated voltage takes better advantage of the chemical reaction in the batteries than with trickle charging. The trickle charger is like a plug-in transformer which usually is supplied as the charger. What makes constant voltage charging better for the battery?

The charging process forces the two active chemicals to separate leaving a specific voltage at the terminals. This separation voltage is very stable and unique to the chemicals used. This means that when all the available materials have been separated, at their characteristic voltage, the battery turns into a resistor. If the voltage used for charging is raised as little as 0.3V, separation of water can begin. This can slowly deteriorate the battery if kept up. This is why the recommendation for "trickle" time is less than 15 hours typically. It should also be noted that the "9 volt" Nicad battery pack has a terminal voltage closer to 8.8 volts at full charge, depending on temperature and newness of the cells.

It becomes clear that we want a charging supply to give only the current level needed to recharge the battery without allowing the voltage to rise above the full charge value. But, what happens to the current if the charging plug accidentally shorts, as it in fact does when plugging it in to the S-1 with the trickle charger.

Good news! There is a regulating system that solves all these problems. The regulator circuit is shown in figure 1. It uses a LM209, 5 volt, TO3 case regulator, protected for heat and shorts. The connection shown permits the voltage to be adjusted up to about 11.6 when using 13.6 or more volts input. This gives a good charging current with either a 12 volt base supply or 14.4 v car battery system, when the generator is charging the car battery.

So now how do we set the safe output voltage from the regulator for the batteries. Easy, first let the batteries reach full charge with the trickle charger until the peak voltage is reached. Next, preset the regulated output voltage to about 10 volts, and plug it into the radio. Adjust the output voltage pot, R3 so that the charging current is less than that from the trickle charge.

Tests with my S-1 have shown that the batteries can be recharged from "dead" to full in about 45 minutes. And that is even with the radio in use. You can use the charging current as the battery reaches full charge, as well as the changing demand of the radio as it is used. The meter has turned out to be much more accurate than a cell as it shows the behavior of the charging to give a picture of how run down the batteries are at any given time. Also the switch allowing trickle or regulated charge permits quick check of the output voltage adjustment under changing temperature and input voltage cords.

Good luck, and 73, Bill.

DE W6J2E

---

Diagrams are on last page.

Published through the courtesy of Bill Kohlenberger, W6J2E, from the Fullerton Radio Club Newspaper (Smoke Signals).