



ORANGE COUNTY AMATEUR RADIO CLUB

VOL. XXI, NO. 8

P.O. BOX 95, ORANGE, CALIF. 92668

AUGUST 1980

OCARC MEETING MINUTES 7-18-80

1. Early Bird drawing was won by Judy WA6HEI., 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.
5. Program - Movie presented by Vic and Monty on Guide Dogs.
6. New Members introduced were Jim Wright, Sid Shishido (H6AQC) and Oscar Alonso (K6GJI)
7. Visitors - Bruce & Muriel Plowman (VK3QC), Paul Harlow (WA1YLS), Bryan Holdcraft (KA6LJW), Ralph Dyson, Beverly Victor (KA6KMN) 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	KA6BJO	838-1211
SECRETARY	VIC ALVEY	N6AHE	544-8541
ACTIVITIES	FRANK SMITH		
MEMBERSHIP	DIXIE MATHERS	KA6DIO	638-2565
PUBLICITY	MURIEL PARKER	KA6BJP	838-1211
T.V.I.	ROBIN HOFF	KA6HNY	731-4803
MEMBER AT LARGE	TERRY MATHERS	WB6IHZ	638-2565
	MONTY CADUFF	WD6AUS	846-3572

EDITOR	BOB MALLER	WB6AJV	551-9572
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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.

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CQ VK CQ VK CQ VK

The August program will be presented by Bruce Flowman, 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.

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The deadline for the September "RF" is Monday, September 8.

Please submit articles to the Editor by that date.

Thank you,
 Bob Maller, Editor

"RF"

ORANGE COUNTY AMATEUR RADIO CLUB

AUG. 1980

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.

THE PETITION ALSO WILL REQUEST THAT THE 20 METER VOICE SUBBAND BE INCREASED BY 50 KHZ, WITH AN EXTRA CLASS SUBBAND OF 14.150 TO 14.175 MHZ AND AN ADVANCED EXTRA SUBBAND OF 14.175 TO 14.225 MHZ AND ALSO WILL REQUEST THAT EXTRA CLASS VOICE OPERATION BE PERMITTED AT 7.075 TO 7.100 MHZ WITHOUT ELIMINATING CW AND RTTY USE BY OTHER LICENSES. THE NEW 10 MHZ BAND WILL NOT BE AVAILABLE BEFORE 1982.

IN OTHER ACTIONS, THE BOARD DIRECTED THE FORMATION OF AN INTER-FERENCE 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, K1LLU, AS NEW ARRL TREASURER AND THANKED RETIRING TREASURER JOHN HUNTOON, 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 VOLUNTER 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 FACISMILE 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.

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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.

QST 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 HKOBKX IS THAT ONE OR BOTH
ISLANDS MAY BE ACTIVATED IN THE FIRST HALF OF SEPTEMBER.
- MALAGASY REPUBLIC - TN8AJ 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 CEØCJA OR CE5CJA/CEØZ.
- AMSTERDAM ISLAND - FB8ZO IS OFTEN FOUND ON 14240 AT 0300 Z WITH
AI5B.

TO ALL DX CONTEST. AFTER CONSIDERABLE INPUT FROM CONTEST PARTICI-
PANTS, 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 FALL. 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.

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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 Sgt. at Arms: Bob Porter, W6QLA
Vice Pres: Johnny Shick, W6LQX
Secretary: Ed Wood, W6GSZ
Treasurer:

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

OCARC OFFICERS - 1946

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

OCARC OFFICERS - 1947

President: Tommy Gentges, W6ALO Activities: Hugh Compton, W6MKW
Vice Pres: Samuel (Mac) McNeal, W6LDJ
Secretary:
Treasurer: A. VanCompernelle, W6FCT

OCARC OFFICERS - 1948

President: Dale Bose, W6BWO Activities: S. M. MacNeal, W6LDJ (?)
Vice Pres: James Baggerman, W6YDM
Secy/Treas: A. R. Van Compernelle, W6FCT
Activities: E. R. Anderson, W6FR

OCARC OFFICERS - 1949

President: Chuck Lunder, W6CGF Activities: Shelley Trotter, W6BAM
Vice Pres: John Norris, W6CDV
Secretary: A. Van Compernelle, W6FCT
Treasurer:

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 an LM109, 5volt, 100 case regulator, protected for heat & 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 13.8v base supply or 14 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. 30ma or less should do well.

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 while the radio is being used. You can watch the charging current changing, as the battery recharges fall charge, as well as the changing demand of the radio as it is used. The meter has turned out to be much more than a frill 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 allows trickle or regulated charge permits quick check of the output voltage adjustment under changing temperature and input voltage condx. Good luck, and 73, Bill. DE #62JE

Diagrams are on last page. Published through the courtesy of Bill Kohlenberger, W6ZJE, from the Fullerton Radio Club newspaper (Smoke Signals).

STAYING CHARGED or THE REGULATED ALTERNATIVE

by Bill Kohlenberger W6ZJE

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 Nicada or Gel-Cell batteries by how long it takes to run down. And when we put them on charge there is no good way to tell when they have fully recharged. Then there's the sinking 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 that little 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 0.1v, 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 16 hours typically. It should also be noted that the "9 volt" Nicad battery pack has a terminal voltage closer to 10.8 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 limit the current if the charging plug accidentally shorts,

July, 1980 FINANCIAL REPORT

Table with INCOME section: Dues (\$20.00), Coffee Kitty (7.62), Sweep Stakes & Wire (45.25), Badges (3.00), Total (\$75.87)

EXPENDITURES

Table with EXPENDITURES section: Labes (\$10.71), R.F. (61.56 (2 months)), Sweep Stake (45.41), Cake (15.08), Field Day (284.85), Refund of Dues (5.00), VIP (20.00), Secretary of State (2.50), Early Bird (30.00), Badges (5.45), Total (\$480.56)

Summary table: Checking Account Balance (\$213.09), Savings Account (992.18), Total (\$1205.27)

