OCTOBER 22-23

# ANNUAL FALL QRP ARCI QSO PARTY TO HIGHLIGHT OCTOBER OPERATING; C.W. & SSB CONTEST IS WARM-UP FOR OTHER EVENTS LATER IN SEASON

The fall QRP season gets its official kick off the weekend of October 22-23 with the annual QRP ARCI QSO Party.

The event, the rules for which appear elsewhere in this issue, is set to begin at 1200 UTC on Saturday and end at 2400 UTC Sunday.

Contestants are reminded of two important rules: Participants may operate a maximum of 24 hours and contacts in the 10.1-MHz band will be disallowed.

be disallowed.

C.W. and sideband contacts are allowed for this event, just as in the April QSO Party. And all entries automatically are considered for the Triple Crowns of QRP Award which will be announced in the next issue of The Quarterly.

REMEMBER: Novice QRPers will be in this contest, too, so set aside a portion of each hour to get in some contacts there. A list of novice frequencies appears in the contest rules, and novices are eligible for the Triple Crowns, too!

This year's contest might be considered a warm-up run for the CQ WW DX contest, set for the we-ekends of Oct. 29030 (for phone) and Nov. 26-27 (for C.W.) /See CQ for October for rules. These contests have a very active QRP section, in case you've never tried them.

Entrants to the QRP ARCI bash are reminded that the highest point category is the less-than-1-watt-output-C.W. field (less than 2 watts out pep), where each QSO is worth 10 points. A resurgence of interest in the milliwatt category occurred last summer when Adrian Weiss, WØRSP, QRP editor at CQ magazine, urged more entries in the milliwatt competition in the ARRL Field Day. Ade traditionally has awarded a FD trophy for mW

activities, and while no such award is available in this fall's QRP ARCI outing, the October contest offers a fine opportunity to test mW gear for later contests. A decision whether to offer a

A decision whether to offer a mW certificate for QRP ARCI contests beginning in 1984 will be based, in part, on the turnout in this fall's event, contest officials said.

And don't forget: All contest entries must be received by Bill Dickerson by Nov. 20, 1983.

> THE PRESIDENT SPEAKS by Ed Popp, K5BOT

October is shaping up to be

a busy month for the QRPer.

To start, there is the QRP
Forum at the ARRL National Convention to be held in Houston.
Also, there will be a hospitality suite where everyone will have a chance to put a face to the voice or fist so often worked and compare notes. During the convention, there will be a Board of Directors meeting for those that are able to attend.

Then, there is the QRP ARCI QSO Party. Details are contained in this issue.

Followed later in the month is STS-9 (Columbia). Launch is currently scheduled for 28 Oct. On board will be Dr. Owen Garritt, WSLFL, who will operate on 2 meter FM when time and schedule permit.

QST has posed a question, "What will be the lowest power used to make contact with W5LFL?"

Continued on Pg. 4

Journal of the QRP Amateur Radio Club International.



QRP Quarterly is the official journal of the QRP Amateur Radio Club, International, Inc., and is published four times a year; January, April, July and October. The QRP ARCI is a non-profit organization dedicated to increasing world-wide enjoyment of QRP operation and experimentation (QRP, as defined by the Club, is 5 watts output CW, and 10 watts output PEP).

Letters to the Editor are welcome. Not every letter can be published, and the Editor reserves the right to edit letters to conform to space limitations. Those desiring a response from the Editor, Officers or Directors should inclose a SASE. Construction projects or articles of general interest are always welcome. Manuscripts should be typed, double spaced, and all circuit diagrams should be clear and should include all parts values. The Editor and Club are not responsible for testing projects appearing in the Quarterly. Pictures should be sharp, distinct, and black-and-white. Size should be around 3" by 3", or a size that can be trimmed to one-column size. Any requests for returned materials must be accompanied by return postage and envelope. Please include name, call, address and phone number on all manuscripts mailed to the Editor.

#### CLUB OFFICERS

PRESIDENT/BOARD CHAIRMAN Edmund A. Popp - K5BOT 2212 Deadwood Drive Austin, Texas 78744 44

VICE-PRESIDENT Gary Beam - WA9WZV/4 P.O. Box 1117 De Leon Springs, FL 32028

SECRETARY/TREASURER Edwin R. Lappi - WD4LOO 203 Lynn Drive Carrboro, NC 25710

PUBLICITY
Frederick W. Bonavita - W5QJM
Box 12072, Capitol Station
Austin, Texas 78711

CONTEST CHAIRMAN
William Dickerson - WA2JOC
230 Mill Street
Danville, PA 17821

AWARDS MANAGER William K. Harding - K4AHK 10923 Carters Oak Way Burke, VA 22015

#### QRP QUARTERLY EDITOR

Box 12072, Capitol Station Austin, Texas 78711

LEGAL OFFICER
Richard A. Crowell - W4WQW
803 Oak Plaza Road
Kingston, TN 37763

Please use this form, or a rea or report changes of address of		eof, to renew your subscription ECRETARY/TREASURER.
( ) Renewal for yr(s).	( ) Change of Address	( ) Change of Call
Amount Enclosed \$	QRP ARCI Number	Call
Name		New Call
Address		
City	State/Province	Postal Code
Country (if DX Subscriber)		



# QRP AMATEUR RADIO CLUB INTERNATIONAL FALL OSO PARTY

DATES: 1200 UTC Saturday, nct. 22, 1983, to 2400 UTC Sunday, Oct. 23, 1983. Participants may operate a maximum of 24 hours.

EXCHANGES: Members give RS(T), state/province/country and QRP ARCI membership number. Non-members give RS(T), state/province/-country and power output.

Stations may be worked once per band <u>and</u> mode for QSO multiplier credits. For example, the same station may be worked on 40-meter c.w. and sideband for credit. Each member contact counts 5 points, regardless of location. Each non-member U.S. or Canadian contact counts 2 points. Non-member stations other than W/VE count 4 points.

MULTIPLIERS: 4 to 5 watts output c.w. or 8 to 10 watts output pep x 2.

3 to 4 watts output c.w. or 6 to 8 watts output pep x 4.

2 to 3 watts output c.w. or 4 to 6 watts output pep x 6.

1 to 2 watts output c.w. or 2 to 4 watts output pep x 8.

Less than 1 watt output c.w. or 2 watts output pep x 10.

More than 5 watts output c.w. or 10 watts output pep will be counted as check logs only.

BONUS MULTIPLIERS: If 100 percent natural power (solar, wind, etc.) with no storage, x 2. If 100 percent battery power, x 1.5.

SCORING: QSO points (total all bands) times total number of states/provinces/countries (a s/p/c may be worked on more than one
band) times power multiplier times bonus multiplier (if any)
equals claimed score. Send a large s.a.s.e. or IRCs to contest
chairman for scoring summary sheet in advance of contest.

SUGGESTED FREQUENCIES: For c.w.1810, 3560, 7040, 14060, 21060, 28060, and 50360 kHz; for ssb 1810, 3985, 7285, 14285, 21385, 28885, and 50385 kHz; for novices and technicians; 3710, 7110, 21110 and 28110. No 30-meter (10.1 MHz.) contacts will be counted.

CALLING METHOD: CQ CQ QRP DE (call sign) or CQ QRP CONTEST FROM etc.

AWARDS: Certificates to highest-scoring station in each state/province/country with two or more entries. All entries are automatically
considered for Triple Crowns of QRP Award.

LOGS: Suggest use of separate log sheets for each band for ease of scoring. Send full log data plus separate worksheet showing details and time(s) off the air. No log copies will be returned. All entrants desiring results and scores please include a large s.a.s.e. with one counce of U.S. postage or IRCs. It is a condition of entry that the decision of the QRP ARCI con test chairman is final in case of dispute.

DEADLINE: Logs must be received by Nov 20,1983; logs received after that date or, missing information will be used as check logs.

Send all material to: QRP ARCI Contest Chairman William W. Dickerson, WA2JOC 230 Mill Street Danville, Pennsylvania 17821

### 'TIS TIME TO HOMEBREW

When was the last time the operator at the other end of a QSO told you: "...and the rig here is homebrew at five watts output..."?

Better yet; when was the last time you were able to say that? For the sake of the record, it's been a long time for me, too.

One of the major advantages of QRP is that it lends itself well to homorewing and avantagement.

to homebrewing and experimenting but without massive outlays of cash or the need for costly, sophisticated test equipment.

A quick look through the major

Ham Radio magazines will reveal a host of QRP-related articles with relatively easy-to-build pieces of relatively easy-to-build pieces of equipment either aimed directly at the low-power enthusiast or read-ily adapted for QRP. And at least three QRP handbooks are in the final stages of preparation, as this

is written.
One of the first excuses heard when the subject of home-brewed gear comes up is: "I can't find the parts." Nonsense: On the next pages you will find a list of 3 dozen companies that sell parts and accessories for the do-it-yourself enthusiast. Most of their catalogs are free for the asking. And since this list is about two years old, others have surfaced in the various radio magazines of late, so look

for them.

Most construction articles include p.c. board patterns, and turning out your own is not dif-ficult. However, if you prefer a professionally made board, drop \$1.50 in an envelope to Dynaclad Industries (Box 296, Meadow Lands, Pa., 15347) for a 20-page catalog of boards from articles dating to the 1970s from QST, ham radio, 73, etc. Its boards are well made. Circuit Board Specialists (at Box 969, Pueblo, Colo. 81002) has

a free catalog of complete kits, p.c. boards and spare parts for construction articles that appeared in QST for the most part. Its of-

ferings are well made and regarded.
Want to build your own beam or vertical antenna but can't find the tubing? Drop a card to Don Newcomb, WØDN, at Butternut Elec-tronics, 405 East Market Street, Lockhart, Texas 78644, and ask for the list of tubing. Don hints he will cut it to length and slot the ends of telescoping sections, if you ask.

OK: Go homebrew it!

--W5QJM

## AA2U SETS QUARTER DISTANCE MARK; WERCP LOGS HIS 200TH MEMBER QSO

By Bill Harding, K4AHK QRP ARCI Awards Manager

AA2U is the undisputed third quarter distance champion with his 1,595,588 miles per watt contact. Randy worked WD4NAN on 15 meters with a 680-microwatt signal.

Terry, K4KJP, picked up ahother KM/W certificate for a 6-meter QSO with WBOZKG running 37 milliwatts. Terry now has KM/W awards for 40 meters through 23cm. Look for an 80-meter effort next.

Jim, W6RCP, received a "200" seal for his QRP-25 certificate. In checking the log I find only seven "200" seals have been issued in the past ten years. Carl Smith, WOBWJ, says a

proposed QRP endorsement to the IARU WAC award is progressing through the several steps required for approval. He is expected to report on the progress of the award at the ARRL convention in Houston, but a final IARU decision

is not expected until early 1984. Meanwhile, the ARRL's board of directors is expected to decide in Houston whether to authorize a QRP endorsement for its DXCC

certificate.

A full report on both these awards will appear in the January issue of The Quarterly.

## Continued from Pg. 1

This is a chance to show what QRP power levels can do. 5 watts out is the maximum power limit to

qualify for QRP levels.

If you plan to try and use QRP levels, state QRP after your call. Some of us should be able to get through. For more details, see July, August, September and October issues of QST.

Speaking of power levels, in August, the FCC has changed the ruling on amateur transmitters from input to output power. QRP ARCI changed to output power over two years ago. How does it feel to be up front? GREAT!

Contained in this issue is a ballot for the Technicial Achievement Award. Please take a little

Continued on Pg. 6

CALL	DATE	BASIC	ENDORS MILES/WATT - NOTES	POWER	MODE	BAND
AD1C	7-30-83	61C		1.5	MIX	MIX
AD1C	7-30-83	62C	ONE MODE	1.5	CW	MIX
KA3CRC	9-05-83	63C	ONE MODE, ONE BAND	3.0	SSB	10m
K9PNG	9-05-83	64C	ONE MODE, ONE BAND ONE MODE	2.0	CW	MIX
051504	6 20 02	4070	- W.A.C			
OE1SBA	6-30-83	437C	ONE MODE	2.0	SSB	MIX
AD1C	7-30-83	438C	ONE MODE	1.5	CW	MIX
OZ4LS	9-05-83	439C	ONE MODE, ONE BAND	5.0	SSB	10m
K9PNG	9-05-83	440C	ONE MODE, ONE BAND	2.0	CW	10m
K9PNG	9-05-83	441C	ONE MODE, ONE BAND	2.0	CW ·	15m
K9PNG	9-05-83	442C	ONE MODE ONE MODE, ONE BAND ONE MODE, ONE BAND ONE MODE, ONE BAND ONE MODE, ONE BAND	2.0	CW	20m
		118	- W.A.S 30 STATE SEAL 50 STATES 40 STATES 50 STATES 30 STATES 50 STATES	1		
WB8UUJ	6-30-83	189C	30 STATE SEAL	5.0	CW	MIX
SM5CCT	6-30-83	210C	50 STATES	2.0	MIX	MIX
KA3CRC	9-05-83	211C	40 STATES	3.0	MIX	MIX
N9DHX	9-05-83	212C	50 STATES	2.0	SSB	MIX
0Z4LS	9-05-83	213C	30 STATES	5.0	SSB	10m
K9PNG	9-05-83	214C	50 STATES	2.0	CW	MIX
K9PNG	9-05-83	215C	30 STATES, 2-WAY QRP	2.0	CW	XIM
W6YMH	6-30-83	956	- QRP-25 - 25 MEMBERS & "50" SEAL #512			
W6RCP	9-05-83	102	"200" SEAL #102			
K9PNG	9-05-83	904	"50" SEAL #513, "100" SEAL #302			
Karing	3-03-03	304	30 SEAL \$313, 100 SEAL \$302			1
VODNO	0 05 00		- NET -			
K9PNG	9-05-83	20	GLN-80 CERTIFICATE			80m
			- 1000-MILE-PER-WATT -			
WA1WLU	6-30-83	834	TO GYARD (2-MAY ODD) 1 145 MAL	2.0	CW 654	15m 29
K4KJP	6-30-83	835	TO W400W 8 129 M/W	.00155	FM 4	
KA6SVQ	6-30-83	836	TO WAODW 8,129 M/W FROM KA9NZI 1,132 M/W TO KA3DCM - 1,658 M/W TO VK2VA 8,454 M/W	1.5		2m 1
KA90LS	6-30-83	837	TO KARDOM 1 650 M/W	.400		15m 29
G4KKI	6-30-83	838	TO VK2VA 8,454 M/W	1.25		40m 13
G4KKI	6-30-83	839		700	CW 657	20m 20
WD4DSS	7-30-83	840	TO WOOLS 10 351 W/W	.700	CW 658	20m 20
W9GJS	7-30-83	841	FROM UDANCE 10,361 M/W	.036	CW 659	40m 13
AA2U	7-30-83	842	TO UDANAN 1 505 500 W/W	.036	CW 660	40m 137
STATE OF THE PARTY	. 50-03	012	TO W9GJS 10,361 M/W FROM WD4DSS 10,361 M/W TO WD4NAN 1,595,588 M/W DISTANCE CHAMP OF THE QUARTER!	.00068	CW 661	15m 296
AD1C	7-30-83	843	TO GUIMAS IM	000		
NODHX	9-05-83	844	TO VV2101 04,320 M/W	.050	CW 662	10m 142
NODHX	9-05-83	845	TO GU3MBS/M 64,320 M/W TO VK2WU 4,639 M/W TO VK2WU 4,639 M/W TO VK2WU 4,639 M/W TO VK2WU 4,639 M/W TO ZL2AAS 4,100 M/W TO VU2ATN 2,362 M/W TO W7MCG 2,868 M/W	2.0	SSB 133	40m 138
VADHX	9-05-83	846	TO WY2LIII 5,136 M/W	2.0	SSB 134	20m 20t
NODHX	9-05-83	847	TO 712445	2.0	SSB 135	15m 297
VU2SAZ	9-05-83	848	TO WISATH 4,100 M/W	2.0	SSB 136	10m 14:
YV6ABM	9-05-83		10 VUZAIN 2,362 M/W	.500	CW 663	20m 209
A1PNO		849	2,868 M/W	1.2	CW 664	15m 298
(4KJP	9-05-83	850		2.0	CW 665	20m 210
	9-05-83	851	TO WBØZKG (2-WAY QRP)23,351 M/W TO KAGEED (2-WAY QRP) 5,289 M/W	.037	SSB 137	6m 19
/K3KPJ	9-05-83	852	10 KAGEED (2-WAY QRP) 5,289 M/W	1.5	SSB 138	10m 144
M7HVQ	9-05-83	853	10 KD2X 2,623 M/W	1.5	CW 666	20m 211
DZ4LS	9-05-83	854	TO WA6SYR 2,766 M/W	2.0	SSB 139	10m 145
DE1BMH	9-05-83	855	TO KD2X 2,623 M/W TO WA6SYR 2,766 M/W FROM JY50L (SWL) 2,242 M/W TO 3B8FK 4,968 M/W	1.0	SSB 140	20m 212
K9PNG	9-05-83	856	TO 388FK 4.968 M/W	2.0	CW 667	20m 213

Be a Watt-Watcher: Five or Fewer

#### table 1. Direct mail electronic parts dealers.

Active Electronics Sales Corp. P. O. Box 1035 Framingham, MA 01701 (617) 879-0077 **ADVA Electronics** Box 4181 Woodside CA 94062 14151 328-1500 Alaska Microwave Labs 4335 E. 5th Street Anchorage, AK 99504 All Electronics Box 20406 905 S. Vermont Los Angeles, CA 90006 2789 O Milburn Avenue Baldwin, NY 11510 (516) 378-4555 P. O. Box 2208 Culver City, CA 90230 (213) 641-4064 Applied Invention RD 2, Route 21 Hillsdale, NY 12529 (518) 325-3911 B & F Enterprises 119 Foster Stre Peabody, MA 01960 (617) 531-5774 **Bullet Electronics** P. O. Box 401244 Garland, TX 75040 (214) 278-3553 Chaney Electronics P. O. Box 27038 Denver, CO 90227 (303) 781-5750 Digi-Key Corp. P. O. Box 677 Thief River Falls, MN 56701 (218) 681-6674 Digital Research Corp. of Texas\* P. O. Box 401247A

2700-DP Heamostead Turnpike Levittown, NY 11756 1516/1735-3330 Electronic Distributors, Inc. 4900 Elston Avenue Chicago, II 60630 (312) 283-4600 ETCO Electronics North Country Shopping Center Plettsburgh, NY 12901 (518) 561-3701

Garland, TX 75040

Edlies Electronics, Inc.

Fair Radio 1016 E Eureka Box 1105 Lima, Ohio 45802 Formula International, Inc. 12605 Crenshaw Blvd. Hawthorne, CA 90250 (213) 973-1921 Fuji-Svea Enterprise \*\* P. O. Box 40325 Cincinnati, OH 45240 (800) 421-2841 (Natio (800) 421-2877 (Ohio) **Godbout Electronics** Box 2355 Oakland Airport, CA 94814 (415) 562-0636 Hal-Tronix P. O. Box 1101 Southgate, MI 48195 (313) 285-1782 Hobbyworld 19511 Business Center Drive Northridge, CA 91324 (800) 423-5387 (Nationy (800) 382-3651 (California) Integrated Circuits, Unlimited\* 7889 Clairmont Mesa Blvd. San Diego, CA 92111 (800) 854-2211 (Nation (800) 542-6239 (California) International Components Corp. P. O. Box 1837 (314) 474-9485 International Electronics Unlimited 225 Broadway Jackson, CA 95642 (209) 223-3870 Jameco Electronics 1021 Howard Avenu San Carlos, CA 94070 (415) 592-8097 JDR Microdevices 1101 S. Winchester Blvd. San Jose, CA 95128 Marlin P. Jones & As P.O. Box 12685-E Lake Park, FL 33403 (305) 848-8236

John Meshne, Jr. Surplus Suppl

Box 62

E. Lynn, MA 01904

(617) 595-2275

MHz Bectronics

2111 W. Camelbac Phoenix, AZ 85015

(602) 242-3037

M-M Electronics Sales 2300 1st Avenue Seattle, WA 98121 McGee Radio Co. 1901 McGee Street Kansas City, MO 64108 (816) 842-5092 New-Tone Electronics International \*\* P. O. Box 1738 Bloomfield, NJ 07003 (900) 631-1250 Olson Electronics 2850 Gilchrist Road ron, OH 44305 Poly-Paks P. O. Box 942 S. Lynnfield, MA 01940 **Quest Electronics** P. O. Box 4430C Santa Clara, CA 95054 (408) 988-1640 Radiokit Box 411 Greenville, NH 03048 (603) 878-1033 Ramsey Electronics 2575 Baird Boad Penfield, NY 14526 (716) 586-3950 Semiconductors Surpl 2822 N. 32nd Street, Unit 1 Phoenix, AZ 85008 (602) 956-9423 Solid State Sales P. O. Box 74A Somerville, MA 02143 (617) 547-7053 Surplus Electronics Corp. 7294 N. W. 54th Street Miami, FL 33166

notes:

(1) "No minimum order or handling charge. There may be postage charges, however.

(2) "Specializes in Japanese semiconductors.

(3) Most of the Rims fisted will accept major charge cards, such as Master Charge or Vise, on telephone orders. A targer minimum order stae may be required, however.

(4) The "800-series" numbers listed are toffnee.

--ham radio, July 1981

## Continued from Pg. 4

time to mark your ballot for your favorite article for the past year. If you would like to be eligible for the 1984 award, submit you article(s) to the editor.

editor.

I also wish to apologize
for this issue of the Quarterly
being late. Presently, the

Quarterly is without an editor. For the time being, please send your input, articles, letters, etc, to Fred Bonavita, W5QJM, whose address is inside the front page.

Anyone who is interested in the job of Editor, please contact the Secretary/Treasurer, Ed Lappi, WD4LOO, whose address is also inside the front page.

# OFFICIAL BALLOT ORP ARCI TECHNICIAL ACHIEVEMENT AWARD

Following is a list of technical articles which have appeared in the Quarterly in 1983, and you are urged to vote for your favorite.

Pick only one article and check the appropriate space. Send your ballot to Ed Lappi (address below) as soon as possible

1.		ER MFA BANDPASS FILTER Paul Kranz, WlCFI	Jan.	83	(	)
2.	15 METER MOBIL ANTE	NNA Louis J. Jacobs, Jr. KN9V	Jan.	. 83	(	)
3.		ING LOOP FOR 160 METERS C.F.Rockey, W9SCH	Jan.	83	(	)
4.	A 40 METER XMTR by Ant	coine F. Galindo, AC6G	Apr.	83	(	)
5.	KEYER INTERFACE by	Michael Bryce, WB8VGE	Apr.	83	(	)
6.	30 METERS ON THE HW		Apr.	83	(	)
7.		S AS R.F. INDICATORS C.F. Rockey, W9SCH	Apr.	83	(	)
8.	HW-8 OFFSET PROBLEM	SOLVED Barry L. Ives, AI2T	July	83	(	)
9.	WHAZZISA TONE ORG		July	83	(	)

(for write-in)

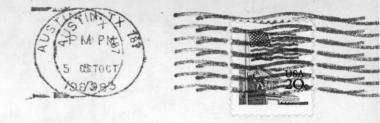
DEADLINE: Nov. 30, 1983

Send ballots to: Edwin R. Lappi, WD4LOO Secretary/Treasurer, QRP ARCI 203 Lynn Drive Carrboro, NC 27510

AND REMEMBER: You could win the 1984 Technical Achievement Award, consisting of a plaque. Send your technical article(s) to the editor of the Quarterly (see inside the front page for address) and get in the running now.

NET NOTES: The Gulf States QRP Net (QRP GSN) will stay on 7040 kHz when the shift to Standard Time occurs late in October, according to W5QJM, NCS. GSN will continue to meet Wednesday nights, 02002 (Thurs.) The net previously moved to 80 meters on the switch to Standard Time months. Meanwhile, efforts are still under way to find a volunteer for NCS duties in the Pacific Northwest region of the country to serve the upper 7th call district. Interested souls should get in touch with K5VOL, Red Reynolds, the club net manager.

ORP ARCI P. O. Box 12072 Capitol Station Austin, TX 78711



FALL QSO PARTY October 22-23! See Page 1