

# RF



## ORANGE COUNTY AMATEUR RADIO CLUB, INC.

VOL. LVI NO. 07

P.O. BOX 3454, TUSTIN, CA 92781-3454

July 2015

### The Prez Sez.....

By Tim N6TMT



It is amazing what people can do when they work together! 2015 Field Day is done! Over the next few weeks, pictures will be gathered, expense accounts settled, QSO's filed, and results discussed. It is safe to say this was a great OCARC Field Day!

There are so many that I would like to thank.

Starting with the Scouts of Troop 440, their leadership and parents, that kept us feed throughout the event. Just as it is said, that an "army moves on its stomach" the same could be said about Field Day. Well-done Troop 440! The Field Day committee also warrants much credit for their planning and foresight. I would especially call out Don N6XBP for his organization skills that greatly kept the committee going. Not bad, for only your 2<sup>nd</sup> FD. Next on my list are all the members and non-members that contribute their efforts during setup, operations and teardown. You always come together and pitch in.

I would be remiss if I didn't mention Sharon Cowart for staffing our Welcome booth. Sharon was a smiling and informative greeter that welcomed over 50 visitors to our site and made sure they knew where to find the various operations. Thanks to Tim N6GP for making it possible to access Walter Knott EC once again.

73 DE N6TMT

### Next General Meeting

The next OCARC [General Meeting](#) will be held on:

**Friday, June 19<sup>th</sup>, 2015.**

**See page 3 for speaker details.**

The next General Meeting will be on:

**Friday, June 19<sup>th</sup>, 2015  
@ 7:00 PM**

As usual, we will be meeting in the east side entrance of the Red Cross Building, Room 208 (2<sup>nd</sup> Floor).  
See you there!



## **2015 Board of Directors:**

### **President:**

Tim Millard, N6TMT  
(714) 744-8909  
[N6TMT@w6ze.org](mailto:N6TMT@w6ze.org)

### **Vice President:**

Tom Cowart, W6ETC  
(714) 454-0571  
[W6ETC@w6ze.org](mailto:W6ETC@w6ze.org)

### **Secretary:**

Ken Konechy, W6HHC  
(714) 744-0217  
[W6HHC@w6ze.org](mailto:W6HHC@w6ze.org)

### **Treasurer:**

Greg Bohning, W6ATB  
(714) 767-7617  
[W6ATB@w6ze.org](mailto:W6ATB@w6ze.org)

### **Membership:**

Don Mech, N6XBP  
(714) 206-6548  
[N6XBP@w6ze.org](mailto:N6XBP@w6ze.org)

### **Activities:**

Doug Wood, K6PGH  
(714) 501-5527  
[K6PGH@w6ze.org](mailto:K6PGH@w6ze.org)

### **Publicity:**

Robbie Robinson, KB6CJZ  
(714) 478-9713  
[KB6CJZ@w6ze.org](mailto:KB6CJZ@w6ze.org)

### **Technical:**

Bob Eckweiler, AF6C  
(714) 639-5074  
[AF6C@w6ze.org](mailto:AF6C@w6ze.org)

### **Directors-At-Large:**

Nicholas Haban, AF6CF  
(714) 693-9778  
[AF6CF@w6ze.org](mailto:AF6CF@w6ze.org)

Paul Gussow W6GMU  
(714) 624-1717  
[W6GMU@w6ze.org](mailto:W6GMU@w6ze.org)

## **2015 Club Appointments:**

### **W6ZE Club License Trustee:**

Bob Eckweiler, AF6C  
(714) 639-5074  
[AF6C@w6ze.org](mailto:AF6C@w6ze.org)

### **Club Historian:**

Bob Evans, WB6IXN  
(714) 543-9111  
[WB6IXN@w6ze.org](mailto:WB6IXN@w6ze.org)

### **RF Editor (rotating):**

Nicholas Haban, AF6CF  
(714) 693-9778  
[AF6CF@w6ze.org](mailto:AF6CF@w6ze.org)

### **WEB Master:**

Ken Konechy, W6HHC  
(714) 744-0217  
[W6HHC@w6ze.org](mailto:W6HHC@w6ze.org)

### **Assistant WEB Master:**

Bob Eckweiler, AF6C  
(714) 639-5074  
[AF6C@w6ze.org](mailto:AF6C@w6ze.org)

### **ARRL Awards Appointees:**

Arnie Shatz, N6HC  
(714) 573-2965  
[N6HC@aol.com](mailto:N6HC@aol.com)

John Schroeder, N6QQ  
(West Orange Co.)  
(562) 404-1112  
[N6QQ@msn.com](mailto:N6QQ@msn.com)

### **Contact the Newsletter:**

Feedback & Corrections:  
[RF\\_feedback@w6ze.org](mailto:RF_feedback@w6ze.org)

Submit Articles:  
[EDITORS@W6ZE.org](mailto:EDITORS@W6ZE.org)

## **Monthly Events:**

### **General Meeting:**

Third Friday of the month  
at 7:00 PM held at:  
American Red Cross  
600 Parkcenter Drive  
Santa Ana, CA  
(Near Tustin Ave. & 4<sup>th</sup> St.)

### **Club Breakfast:**

First Saturday – July 4 at 8:00am  
Marie Callender's Restaurant 2525  
1821 North Grand Ave  
Santa Ana, CA  
(North of 17th Street)

### **Club Nets (Listen for W6ZE):**

28.375 ± MHz SSB  
Wed- 7:30 PM - 8:30 PM  
Bob AF6C, Net Control

146.55 MHz Simplex FM  
Wed- 8:30 PM - 9:30 PM  
Bob, WB6IXN, Net Control

7.086 ± MHz CW **OCWN**  
Sun- 9:00 AM – 10 AM  
John WA6RND, Net Control



### **Club Dues:**

Regular Members	...\$20
Family Members*	...\$10
Teenage Members	..\$10
Club Badge**	.....\$3

Dues run from Jan thru Dec and are prorated for new members.

\*Additional members in the family of a regular member pay the family rate up to \$30 per family.

\*\*There is a \$1.50 charge if you'd like to have your badge mailed to

## July Speaker will be Bill Prats K6ACJ.

### Topic: Building Arduino, PICAE and Raspberry Pi Projects with DIY Examples

Bill K6ACJ will speak on the basics of building (including real do-it-yourself examples) Arduino and Raspberry Pi projects. He will begin by covering the small power supplies and its batteries. He will discuss proto boards and associated problems with each that have to be overcome for ham radio OP's (for example electrical noise generated by some power supply modules and power cable resistance).

Those in attendance will be exposed to Bill's vast expertise and knowledge of the subject of Arduino and Raspberry Pi and will leave with a better understanding of the basics of this subject. The bonus to those that attend will be provided with a unique insight into the tools, project examples and key background considerations for the development of DIY home projects that can provide better results the first time around.

Bill then turns up the power... so to speak towards the evolution into Arduino and Raspberry Pi project examples for OP's using examples from 'Ham Radio for the Arduino and PICAXE' and 'Arduino for Ham Radio by Glen Popiel KW5GP.' While the focus will be on building and creating single board computer projects there will be no bits and bytes discussed. You don't want to miss this informative, fun filled, insightful presentation.



Tom W6ETC





## FIELD DAY SUMMARY

FOR

THE ORANGE COUNTY AMATEUR RADIO CLUB - W6ZE

by: Ken / W6HHC &amp; Bob / AF6C

YEAR	160M SSB	80M CW	75M SSB	40M CW	40M SSB	20M CW	20M SSB	15M CW	15M SSB	12M SSB	10M CW	10M SSB	6M CW	6M PHN	2M CW	2M PHN	220 PHN	440 PHN	UHF CW	UHF PHN	ATV	RTTY/PSK Dig	SAT- ELLITE	GOTA	---- TOTAL ----		
																									QSO's	/	(POINTS)
2015	0	53	121	115	507	661	1161	190	324	0	1	71	3	60	0	45	0	6	0	0	0	77	0	1	3,396	/	8,992
2014	0	111	122	756	723	1059	1113	559	382	0	57	134	25	133	0	43	0	11	0	0	0	121	23	47	5,419	/	16,214
2013	0	269	339	655	1052	895	1960	484	614	0	38	67	6	60	0	60	15	11	0	0	0	144	4	186	6,859	/	18,700
2012	0	14	51	125	78	215	735	185	330	0	0	12	1	50	0	37	5	5	0	0	0	13	0	408	2,264	/	5,634
2011	0	58	176	168	217	253	703	32	198	0	16	40	0	57	0	37	0	16	0	0	0	0	0	139	2,110	/	5,278
2010	0	0	0	240	342	223	727	49	0	0	0	0	1	96	0	32	1	7	0	0	0	0	0	160	1,878	/	4,786
2009	0	277	126	838	807	974	970	495	368	0	5	450	11	375	0	125	18	20	1	0	0	0	2	130	5,992	/	17,446
2008	0	179	204	690	405	411	878	141	43	0	22	68	15	135	0	34	2	14	0	3	0	0	5	16	3,265	/	9,468
2007	1	356	310	910	830	988	1285	381	320	0	18	150	9	145	2	175	40	70	2	9	0	2	11	142	6,156	/	17,648
2006	0	28	20	89	512	156	664	16	10	0	0	0	0	38	1	85	0	7	0	0	0	114	0	113	1,853	/	4,514
2005	0	113	6	158	481	337	534	122	17	0	0	0	0	74	0	36	16	20	0	0	0	0	0	31	1,945	/	5,350
2004	0	166	239	37	412	131	477	31	105	0	1	114	0	0	0	46	12	20			0	0	1	0	1,792	/	4,316
2003	0	0	85	52	127	27	295	0	191	0	0	41	0	52	0	64	1	13	0	0	0	0	0	0	948	/	2,054
2002	0	26	69	192	279	76	229	0	485	0	0	18	0	62	0	68	6	10			3	2	0	3	1,528	/	3,648
2001	0	0	25	101	251	0	432	0	675	0	0	109	0	48	0	28	1	0			0	0	3	-	1,673	/	3,548
2000	0	19	20	88	91	0	625	0	794	0	0	121	0	36	0	72	7	15			0	0	1	-	1,889	/	3,992
1999	0	13	20	15	237	0	996	0	724	0	0	22		5	0	2	0	0			0	0	0	-	2,034	/	4,124
1998	0	24	75	65	136	100	250	0	624	0	0	82		0	0	46	17	12			0	7	1	-	1,439	/	3,270
1997	5	81	131	83	306	150	853	14	275	0	0	106		32	0	79	4	0			0	32	1	-	2,152	/	5,024
1996	-	146	228	104	125	283	673	40	605	0	0	217		121	0	32	0	40			0	13	1	-	2,628	/	6,428
1995	-	145	272	203	94	443	572	51	451	0	0	131		66	0	93	29	8			0	33	6	-	2,597	/	6,944
1994	-	114	114	208	45	486	748	85	761	0	13	312		58	0	94	33	0			0	31	0	-	3,102	/	8,078
1993	-	150	100	159	81	530	700	131	812	0	0	179		40	0	86	12	16			0	35	0	-	3,061	/	8,132
1992	-	0	294	200	110	541	555	0	840	0	0	232		13	0	74	0	1			2	41	80	-	2,983	/	7,530
1991	-	105	308	182	182	400	623	9	463	0	0	104		4	0	141	23	11			0	48	0	-	2,626	/	6,740
1990	-	0	0	70	144	0	370	0	747	0	0	131		39	0	114	14	26			0	2	-	-	1,657	/	3,454
1989	-	30	0	98	5	0	906	21	172	0	0	238		3	0	121	24	9			1	18	-	-	1,646	/	3,590
1988	-	127	0	93	75	2	359	0	570	0	144	81		0	0	32	0	-			-	14	-	-	1,497	/	3,726
1987	-	22	0	0	39	0	708	0	18	1	117	0		1	0	51	0	-			-	5	-	-	962	/	2,202
1986	-	0	46	219	78	0	488	0	45	10	0	0		0	0	82	0	-			-	0	-	-	968	/	2,374
1985	-	85	0	315	91	35	662	78	0	-	0	0		0	0	22	0	-			-	-	-	-	1,288	/	3,602
1984	-	18	0	313	0	32	196	32	350	-	0	0		0	0	0	0	-			-	-	-	-	941	/	2,672
1983	-	3	93	200	0	0	776	0	995	-	0	43		18	0	16	1	-			-	-	-	-	2,145	/	4,696
1982	-	0	105	59	238	40	352	19	515	-	0	72		0	0	155	27	-			-	-	-	-	1,582	/	3,400
1981	-	0	167	200	265	60	699	77	717	-	0	105		0	0	197	0	-			-	-	-	-	2,487	/	5,648
1980	-	20	149	205	235	471	318	52	1,025	-	0	226		12	0	100	36	-			-	-	-	-	2,849	/	7,194
1979	-	0	195	198	92	42	773	0	737	-	0	95		0	2	124	8	-			-	-	-	-	2,266	/	5,016
1978	-	16	196	246	170	30	981	57	558	-	13	145		0	1	164	23	-			-	-	-	-	2,600	/	5,926
1977	-	25	243	182	199	0	843	81	486	-	4	309		0	4	234	0	-			-	-	-	-	2,610	/	5,812
1976	-	99	254	152	487	21	600	64	210	-	2	54		0	0	2	0	-			-	-	-	-	1,945	/	4,566
1975	-	80	120	154	274	40	863	140	259	-	0	123		0	0	0	0	-			-	-	-	-	2,053	/	4,934
1974	-	6	161	6	333	0	630	12	342	-	0	110		0	0	0	0	-			-	-	-	-	1,600	/	3,248
1973	-	90	226	0	452	0	932	0	273	-	0	0		0	0	46	0	-			-	-	-	-	2,019	/	4,218
1972	-	0	50	0	350	0	521	0	530	-	0	0		0	0	94	0	-			-	-	-	-	1,545	/	3,090
1971	-	0	274	0	106	0	530	0	136	-	0	0		0	0	0	0	-			-	-	-	-	1,046	/	2,092
1970	-	0	272	0	0	0	531	0	426	-	0	0		0	0	0	0	-			-	-	-	-	1,229	/	2,458
1969	-	0	98	0	50	0	375	0	301	-	0	0		0	0	169	0	-			-	-	-	-	993	/	1,986
1968	-	10	224	62	396	93	328	24	430	-	0	68		0	0	145	0	-			-	-	-	-	1,780	/	3,938

Note: These are raw contacts taken directly from the log sheets. Adjustments have not been made for duplicate contacts, and bonus points have not been added yet. Final scores appear in QST.

# Lightning Protection Steps Checklist

Addendum to The Lightning Protection Process

By Corey Miller KE6YHX

In the previous addendums, I covered Short Circuit Protection, and the Lightning Protection Supply Checklist. In this article, the whole process is laid out in a step-by-step checklist. It is in chronological order.

- **Make PolyPhaser Panel**
  - Plan location.
  - Measure location and studs.
  - Lay out lines on metal.
  - Lay out PolyPhasers on metal in proper orientation.
  - Drill bolt-holes,
    - Place PolyPhaser and drill hole,
    - attach PolyPhaser,
    - place next PolyPhaser,
    - drill hole for next PolyPhaser,
    - attach PolyPhaser,
    - remove previous PolyPhaser,
    - repeat.
  - Remove PolyPhasers.
  - Cut-out panel.
  - Drill holes for wall-stud screws and solder lug.
  - Scrub and sand panel metal.
  - Bolt down PolyPhasers using conductive silver grease.
  - Crimp or solder no. 4 welding cable to solder lug.
  - Attach No. 4 Welding Cable to PolyPhaser Panel.
- Screw PolyPhaser Panel to Wall.
- **Drive the Ground Rod.**
  - Plan location at least 4-feet from foundation.
  - Dig pit and soak with water.
  - Grind point on ground rod.
  - Place end-cap and drive the ground rod.
- Cut excess ground rod a few inches above ground.
- **CadWeld Welding Cable to Ground Rod.**
  - Cut welding cable to-length and strip end
  - Clean rod and cable.
  - Twist CadWeld crucible onto ground rod.
  - Position hole on side of CadWeld for cable.
  - Press cable into sleeve in hole on side.
  - Pour welding material.
  - Place lid on crucible.
  - Pour starter material into hole.
  - Prepare with gloves and safety glasses, and ignite starter material.
  - Let smolder for 5 minutes, then tap-away CadWeld crucible.
- Pour water-softener salt into pit, and cover with soil.



- **Shorten Feed Lines**

- Gather tools and supplies.
- Attach New Connectors,
  - Snip cable to length,
  - slide-on reducer,
  - remove insulation and comb braid,
  - slide reducer under braid,
  - fold-back braid and trim,
  - strip inner dielectric,
  - place connector (mind the center conductor),
  - slide-back and tape outer ring,
  - screw-in reducer,
  - solder outer conductor and tip.
  - trim solder and remove flux,
  - slide and screw-on outer ring,
  - repeat.
- Attach and test.

- **Short Circuit Protection**

- Attach ground bus (copper or aluminum) to rig table.
- Make Ground Wires.
  - Measure equipment ground lug diameter.
  - Crimp (or solder) tongue-ring to 10-gauge ground wire.
  - Attach tongue-ring on ground wire to equipment.
  - Run ground wire to ground bus.
  - Cut ground wire to-length.
  - Crimp (or solder) tongue-ring to end of ground wire.
  - Drill hole smaller than screw for tongue-ring in ground bus.
  - Attach end tongue-ring to ground bus with hex-head screw.
  - Repeat.

- **Make Common-Ground**

- Crimp (or solder) tongue-ring to common-ground wire.
- Drill hole smaller than screw for tongue-ring in ground bus.
- Attach common-ground to ground bus with hex-head screw.
- Cut common-ground wire a little long to reach breaker-box ground.
- Run common-ground wire to nearby breaker-box ground.
- Cut common-ground wire to-length.
- Attach end to breaker-box ground.

--Good Luck and 73, Corey Miller KE6YHX

# Bill Pasternak WA6ITF -- Silent Key --

Bill Pasternak WA6ITF, a well known California ham who produced the well-known “**Amateur Radio Newsline**” reports on a weekly basis for decades, passed away in June.



(courtesy of ARNewsLine.org)

Bill Pasternak was first licensed as a ham in 1959 and later created an audio report on Ham Radio events and issues each week, initially called the “**West Link Tapes**” back in 1976. Later the weekly reports were renamed to the current name: “**Amateur Radio Newsline**” reports. Another accomplishment of Bill Pasternak was to create the yearly “**Young Ham of the Year Award**” to recognize and to award accomplishments of young hams.

There was a reason that the “**West Link**” reports were called “**Tapes**”. Back in the 1980’s and in the 1990’s, OCARC club members would call up a “West Link” phone number and record the audio report onto their cassette tape recorders. Older members in the OCARC may remember that the OCARC 2M net would try to play the West Link Tapes or Newsline reports every week...for the second half-hour of the 2M net. That OCARC service of re-broadcasting these weekly ham reports for OCARC nets finally ended in 2009.



## OCARC GENERAL MEETING MINUTES 2015-06-19

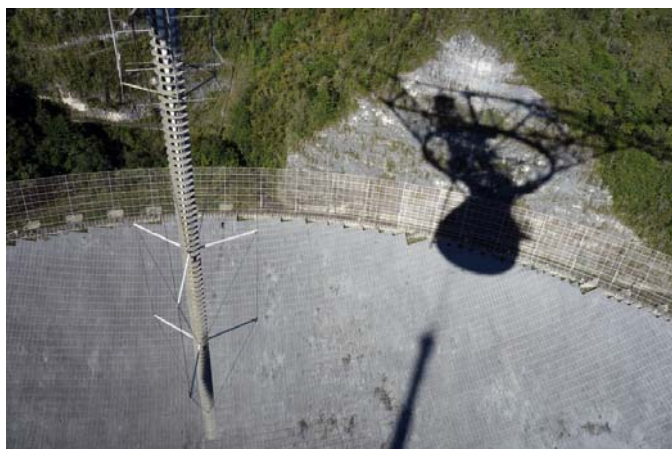
The OCARC General Meeting was held at the Red Cross Complex on June 19<sup>th</sup>, 2015. The meeting was called to order at 7:00 PM. A quorum of officers was present with only Robbie KB6CJZ absent with a family-event conflict. There were a total of 35 members and visitors in attendance.

### Program for General Meeting

Our speaker for the evening was Chip Margelli K7JA giving club members a tour at the huge

### "Arecibo Radio Telescope in Puerto Rico"

Arecibo is the world's largest radio telescope, 305 meters across, dug unto a mountain valley.



View of dish plates used in telescope and a shadow of the movable radio platform

Chip explained that the reflective dish of the telescope is:

- Constructed of 38,300 aluminum plates
- Can be aimed +/- 19.7 degrees of arc
- Has a freq range from 300MHz to 10GHz
- The radio platform weighs 900 tons



Chip K7JA and XYL Janet KL7MF are shown "top side" on the radiotelescope platform

### Biz:

**HAM JAM** - Janet KL7MF (who is manager of the local HRO store) announced that the yearly "Ham Jam" event will be sponsored by the HRO store in Anaheim on Saturday, July 11.

### FIELD DAY

- FD co-chair Don N6XBP provided a description for OCARC FD plans this year.
- BSA Troop 440 from Buena Park presented the meals menu that will be available from the scouts during FD at a price of \$30 per five meals.
- The following FD budget was voted on and approved:

Truck rental	\$45
FD gasoline	\$100
Food tickets - guests	\$150
"pre-paid" Food tickets – will "pass thru"	
Water and coffee	\$100
Cleaning Service	\$50
Misc -	\$305
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**Expected net expense \$850**

*Respectfully submitted by:*  
Ken W6HHC - secretary

## OCARC BOARD MEETING MINUTES 2015-07-04

The OCARC Board meeting was held at the Marie Callender's Restaurant on Grand Ave in Santa Ana on July 4<sup>th</sup>, 2015. There were a total of 10 directors and members attending. There was a quorum of Directors with only Bob AF6C absent because of a family-event conflict.

### Director Reports:

- **Treasurer** – Greg W6ATB reported that the OCARC has taken in \$1,644 of income so far during 2015 [see report on Page 12]. Quicken software for tracking club finances has a very steep “learning curve” and is very time consuming to learn.
- **Publicity** – Robbie KB6CJZ reported that publicity for OCARC FD had been submitted to several social revenue sites. A copy of press-release sent to newspapers will be sent to Tim N6GP for submission of to ARRL FD Bonus Points.
- **Membership** – Don N6XBP will send out completed YTD membership roster during the coming week. In addition, members who “paid twice for 2015” will be asked next week if the extra money can be applied to their 2016 membership.

### OLD BIZ:

#### • Newsletter Editors

Jul – Nicholas AF6CF;  
 Aug – Tim N6TMT;  
 Sept – Paul W6GMU;  
 Oct – Corey – KE6YHX;  
 Nov – Greg W6ATB  
 Dec – Bob AF6C

#### • Program Speakers for Club Meetings

July – Bill K6ACJ on RaspberryPI HamRadio  
 Aug – Panel-of-Experts  
 Sep – Show-and-Tell  
 Oct – Radio Auction  
 Nov – (pending) and elections  
 Dec – Club Christmas Party

### • Field Day Report

- **FD Scores Report** – Ken W6HHC reported that a total of 3,396 QSOs were made during 2015 FD efforts. That is the 5<sup>th</sup> best QSO-count in the last 16 years of OCARC FD efforts. A detailed report of FD results will appear on Page04 of the July newsletter.
- **VE Testing** – OCARC had several people show up for VE Testing at FD because the ARRL web site still showed “VE Testing” available as a club feature. OCARC Secretary will remove “VE Testing” from the ARRL web description of OCARC.
- **Missing Extension Cord** – Robbie KB6CJZ is missing a yellow 100ft heavy-duty 110V extension cord from FD. It has a label with KB6CJZ on it. If it does not “show up” in three months, the club will compensate Robbie for it.
- **Soccer Club** – The Board considered whether OCARC a gift should be given to the Cypress Futbol Club for sharing the field with us. Final consensus was that they are just another tenant like us. No further action is planned.
- **Los Alamitos JFTB** – because of pressures from the Soccer Club at the Walter Knott school grounds, the Board has asked Paul W6GMU to pursue asking JFTB for permission as a alternate FD site,

### NEW BIZ:

#### • FD Storage Unit for Club Equipment

The board has agreed that it would be much better to store OCARC equipment in a storage unit. The cost may be as much as \$100/mo (or higher depending on size). If this plan is implemented at a commercial storage company, it would require a increase in OCARC dues. Don N6XBP, Greg W6ATB, and Nicholas AF6CF will investigate costs at units that they use and report back to the board. This plan will be discussed at General Meeting.

#### • Sell Old Club Generator?

The club still owns an old Briggs & Stratton 4 KW generator on a trailer that is very noisy and was replaced with the newer Honda

- **Sell Old Club Generator? – cont'd**

5 KW generator. A suggestion was made to sell the old generator and trailer. Another suggestion was made to mount the new Honda generator on the old trailer and sell only the old generator. Keeping the trailer may require finding a new storage location for it? A decision concerning the trailer can't be made until the plans for a club storage unit are finalized. This matter was tabled.

- **Purchase Motorcycle Ramps?**

Bob AF6C has reported that the motorcycle ramps that Gene KJ6OML loans to the club are very helpful to load the club Honda generator onto a truck to transport to Field Day. Perhaps it is time for the OCARC to purchase a set (on sale now at Harbor Freight). This decision is tied to the suggestion about mounting the Honda generator onto the generator trailer (see above item). This matter was tabled until decision on club trailer is finalized.

- **Increase in OCARC Dues**

The Board of Directors recognizes that the club can not afford to pay for a new storage unit (perhaps \$1200/year) unless we raise the membership dues. Ken W6HHC also reported that the OCARC has not raised the cost of dues in over 15 years (raised to current \$20 in 1999). A motion was approved to increase the OCARC Membership Dues to \$30/year beginning with the dues for 2016.

*Respectfully submitted by:*  
Ken W6HHC - secretary



## Ham Radio Outlet HAM JAM EVENT 2015-07-11

Saturday, July 11 will be a day of ham radio fun at Ham Radio Outlet in Anaheim from 10AM-5: 30PM.

Join us along with reps from Icom, Kenwood, and Yaesu, Gordon West, the Red Cross, Orange County RACES, Anaheim RACES, the Hospital Disaster Services, local clubs like MARC (the Motorcycle Amateur Radio Club), and the San Diego Six Shooters, and other experts who will be showing us "what's new in ham radio" from C4FM digital to an antenna analyzer with a full color TFT LCD screen. See a 200w mobile HF installation in a Smart Car, and compare notes about what you learned at Field Day this year.

There will be three prize drawings throughout the day, and hot dog lunches to keep you fortified. We will offer license testing for all classes from 11AM to 3PM (be sure to call or email the store for reservations.)

Come join us to learn, to see and be seen, to laugh, to eat, and completely enjoy a day filled with everything ham radio.





**OCARC**  
**Cash Flow - Year To Date**  
1/1/2015 through 7/6/2015

Category	1/1/2015- 7/6/2015
<b>INFLOWS</b>	
Badge Income	6.00
Dues, Family	130.00
Dues, Future	20.00
Dues, Membership	1,058.00
Dues, New Member	25.00
Field Day Food Advance	405.00
<b>TOTAL INFLOWS</b>	<b>1,644.00</b>
<b>OUTFLOWS</b>	
Bank Svc Chg	30.00
Door Prize	150.00
Field Day - Gas	43.88
Field Day Food	780.00
PO Box Rental	56.00
Web Site Hosting	89.94
<b>TOTAL OUTFLOWS</b>	<b>1,149.82</b>
<b>OVERALL TOTAL</b>	<b>494.18</b>

# HAMCON 2015

## HAMCON 2015

The 2015 ARRL Southwestern Division Convention is September 11-13, 2015, at the Torrance Marriott South Bay Hotel, 3635 Fashion Way, Torrance, CA 90503.

Check our website at:

[www.hamconinc.org](http://www.hamconinc.org)



HAMCON 2015--also the 2015 ARRL Southwestern Division Convention-- is produced by 13 amateur radio clubs in Los Angeles and Orange Counties committed to providing a positive convention experience for all attendees.

The ARRL's annual Southwestern Division Convention rotates yearly from the Los Angeles-Orange County area to a location in Arizona, then to a site in Santa Barbara or Ventura County, and finally to the San Diego area before repeating this four-year cycle. The ARRL's Southwestern Division includes the Southern California counties of Imperial, Inyo, Los Angeles, **Orange**, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, and Ventura as well as the entire state of Arizona. It is 2nd largest of the ARRL's 15 Divisions in terms of amateur radio licenses issued—only the ARRL's Southeastern Division (all of Alabama, Florida, and Georgia) has slightly more amateur licenses outstanding.

We welcome all amateur operators to HAMCON 2015 during September 11-13, 2015, at the Torrance Marriott South Bay Hotel.

You don't need to be an ARRL member to attend and hams living outside the ARRL's Southwestern Division are also invited. No matter what your amateur radio experience level may be we're sure you will find many topics, products, and people of interest at HAMCON 2015.

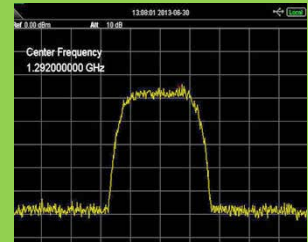




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- Software Defined Radio (SDR) architecture allows many variations of IQ modulations
- “Software-Defined” allows new features to be added over the next few years, without changing the hardware board
- As extra bonus, the team has been able to get the board to transmit DVB-T 2K mode, however we cannot guarantee the performance of that protocol. Caveat Emptor!
- Requires PC or ODROID running Ubuntu Linux (see User Guide)
- Price is US\$300 + shipping – order using PayPal



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