



# Squelch



Volume 48 ~ Number 5

September 18, 2009

**Official Publication of the Anaheim Amateur Radio Association ~ An ARRL Affiliated Club  
Squelch is published bimonthly on the Friday preceding the General Meeting**

## ~ Upcoming Events ~

**Anaheim Amateur Radio Association**  
Post Office Box 2242  
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### AARA Club Officers and Volunteers

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**Squelch Editor:**

Walt LeBlanc, WB6RQT

**Refreshments:**

Jim Edds, KA6G

Margaret Signorelli, WA6PZO

**Web Master:**

Bob Krause, KI6K

**Oct 3:** Club Breakfast at Keno's, 8 AM

**Oct 17:** Elmer Workshop 10 AM

**Oct 22:** Board of Directors Meeting 6:30 PM

**Oct 27:** General Membership Meeting 7 PM

**Following Months Calendar on Page 3**

## OCTOBER 2009

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31



## ~ Membership Corner ~

By Margaret Signorelli, WA6PZO

The heat of the fall is once again upon us. I hope all that do well in this type of weather are enjoying it.

The roster has closed and we have 23 members. I have not had any brilliant ideas on how to attract new members. I hope at the general meeting we can take a look at this again and see if we can come up with a positive direction to go in.

I would like to pass my condolences to Joe Headman KF6SJW on the passing of his wife. Our thoughts are with you and please take good care of yourself.

Hope to see everyone at the meeting, don't forget that we are now meeting at the Anaheim Fire Training Center at 2400 Orangewood in Anaheim.

Margaret WA6PZO

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## ~ Editors Notes ~

Hello Folks,

This has been a trying year for me. The injury I sustained in February to my knee is healing nicely and I am able to do almost everything I could before. The only thing I am having a little problem with is stairs, particularly going down stairs.

Hmmm do you think it is mental as that is how I was injured in the first place? Who knows but I am working on it and things are getting better but slooly.

At the Club Picnic in June I told Dennis our club president that I would not continue as the Editor of Squelch next year. After six years doing Squelch I am burned out and I think it is time for someone else to take over the job.

I will be glad to supply what files and graphics that I have accumulated over time. Also I will give what technical assistance that I can.

So here is your chance to try your hand at producing the club newsletter each month. It is time for a fresh prospective and maybe a different format. That would be up to you as the editor decides how he/she will do the job.

Walt WB6RQT  
Squelch Editor

## ~ Monthly Events ~

**CLUB BREAKFAST:** 8:00 AM First Saturday of each month at Keno's Restaurant, 2661 W. La Palma Ave, Anaheim, CA 92801.

**BOARD MEETING:** 6:30 PM Thursday before General Meeting of each month (except December) International House of Pancakes Restaurant — 2250 Lincoln Avenue, Anaheim, CA.

**ELMER (Mentor) WORKSHOP PROGRAM:** Third Saturday of the month (except March and December) Lutheran Church, 12301 Magnolia St, Garden Grove. (in North Hall) Time: 10AM. Visit <http://www.aara.org> for more information & Map.

**MONTHLY GENERAL MEETING:** Fourth Tuesday of the Month. (except December) **NEW MEETING LOCATION!** 2400 E. Orangewood Ave, Anaheim, CA. (Anaheim Fire Training Center) The entrance is off of Rampart St. which is on the West side of the Facility. Starts at 7 PM.

## ~ Upcoming Events ~

NOVEMBER 2009						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

### ~ AARA Repeaters: K6SYU/R ~

**2M Repeaters 146.19/146.79**  
Long Beach, PL-1A/13 - 103.5 HZ  
St. Jude, Fullerton PL-2A/16 - 114.8 HZ

**220 Repeaters 222.9/224.5**  
Long Beach, PL-5A/25 - 156.7 HZ  
St. Jude, Fullerton PL-5B/26 - 162.2 HZ

#### Notes:

2M Repeaters Transmit a 103.5 CTCSS Tone on the output. Long Beach 2M & 220 Repeaters are linked.

Frequency format is: input/output



Squelch is published bimonthly (in odd numbered months) and is delivered via e-mail attachment. Please keep your Editor updated on any change of e-mail address you may have.

Submissions for Squelch are welcome. The Editor reserves the right to refuse to publish any articles deemed as not suitable and articles will be edited if required.

Send Articles and address updates to the Editor at: [waltqrt@earthlink.net](mailto:waltqrt@earthlink.net)

All submissions are due not later than the 3rd Tuesday of the month in which Squelch is published but may be submitted at any time prior to that day. Submissions submitted late may be used in the following issue. An e-mail reminder will be sent to the membership one week prior to the due date.

*~ Expanded info on this Months Program ~*

Since my presentation for this months general meeting is on the '555' timer chip, I thought I would expand on the history and the many useful designs that are possible with this integrated circuit.

The 555 Timer IC is a integrated (chip) implementing a variety of timer and multi-vibrator applications. The IC was designed was designed by Hans R. Camenzind in 1970 and brought to market in 1971 by Signetics. The original name was the SE555 (metal can)/ NE555 (plastic DIP) and the part was described as "The IC Time Machine". It has been claimed that the 555 gets its name from the three 5k ohm resistors used in typical early implementations, but Hans Camenzind has stated that the number was arbitrary. The part is still in wide use, thanks to its ease of use, low price and good stability. As of 2003, it is estimated that 1 billion units are manufactured every year.

Depending on the manufacturer, the standard 555 package includes over 20 transistors, 2 diodes and 15 resistors on a silicon chip installed in a 8 pin mini dual-in-line package (DIP-8). The 555 has three operating modes:

- Monostable mode: in this mode, the 555 functions as a "one-shot". Applications include timers, missing pulse detection, bounce free switches, touch switches and frequency dividers.
- Astable: This is the free running mode in which the 555 can operate as an oscillator. Uses include LED and lamp flashers, pulse generators, logic clocks and tone generators.
- Bistable mode: The 555 can operate as a flip-flop, if the Discharge pin is not connected and no capacitor is used, Uses include bounce free latched switches.

There is an Interactive Web site that can be used to design circuits around the 555 Timer chip. The address is <http://www.delabs-circuits.com>, take a look, it will show you how versatile the 555 chip is in designing circuits

Dennis KI6IPH

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