



SAN BERNARDINO MICROWAVE SOCIETY, Incorporated

FOUNDED IN 1955

A NON-PROFIT AMATEUR TECHNICAL ORGANIZATION DEDICATED
TO THE ADVANCEMENT OF COMMUNICATIONS ABOVE 1000 MC.

W6IFE Newsletter

July 2007 Edition

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At the **5 July SBMS** meeting will be planning for the August portion of the ARRL 10 GHZ and up contest. The SBMS meets at the American Legion Hall 1024 Main Street (south of the 91 freeway) in Corona, CA at 1900 hours local time on the first Thursday of each month. Check out the SBMS web site at <http://www.ham-radio.com/sbms/>.

REMINDER- NO PARKING IN THE CHURCH LOT UNTIL CLAIRIFICATION IS MADE.

Last meeting-Dave, N6TEB gave a very graphic presentation of his work roving on numbers of bands from his mobile antenna farm and multiple operator position vehicle. Thanks for the neat show. Ed asked for logs to be sending out QSL cards to those who had been worked by W6IFE at OVRO. With the price of mail going up in May, Ed wanted to get the correct logs and find the list of received cards. Dick, K6HIJ had run a new group of Society badges. It was voted to pay for the computer card needed by the WA6CGR Tehachapi green powered repeater to link it with an LA area repeater so the society could have an alternate liaison frequency for long haul microwave operations. Both are on 445.500 MHz. Welcome to new members Henry Ingwersen, KT1J in Vermont and Jack Davis, K6YC in Sacramento. 22 people present.

If you have moved, changed email address, or some how altered how you wish to receive this newsletter, you need to let Bill, WA6QYR know your preferences. bburns@ridgenet.net.

Scheduling

July 28 Picnic/ Tune-up party
August 2 SBMS meeting

August 4-5 ARRL UHF Party

August 18-19 ARRL 10 GHz and Up contest

Sept 8-10 ARRL VHF QSO

Sept 15-16 10 GHz and Up second half

October 18-19-20 **MICROWAVE UPDATE (MUD) 2007** Historic Valley Forge Philadelphia,



and up.

The N6TEB contest wagon set up for 6 meters



The road ready contestster. Imagine seeing this going down the road at 80 miles per hour in front of you. Dave says it goes fine even into the wind.

“Wants and Gots for sale.

Want az-el head for tripod to go to Mexico Frank WB6CWN 805-558-6199 fm-kelly@Verizon.net

For Sale- Programming sub-board for the Verticom and Stellex synthesizer. Assembled PCB, chip programmed for 11.880 GHz available from Chris N9RIN at: cshoaff@yahoo.com. SBMS member cost \$6.00 not counting shipping.

Activity reported at the **June SBMS** meeting- Larry, K6HLH had been on 1296 MHz the past weekend; Dick, K6HIJ had been to Dayton; Mel, WA6JBD had continues work on Cactus hardware; Dave, WA6CGR had been testing the 10 GHz radio made by Wayne KH6WZ for WA6JDH; Chris, N9RIN indicated his programmer for the Verticom synthiser and has a new 10 GHz rig in work; Wayne, N6NB was out for the 2 GHz contest, Kurt, K6RRA still looking for parts for 24 GHz, Maurice, K6YNH is collecting parts; Jeff, KN6VR had been to Dayton; Dave, N6TEB has a GPS locked 10 GHz rig and a 24 GHz rig in work; Don, W6CWI has a 10 GHz rig running; Ed, W6OYJ was on for the 2 GHz contest and 24 GHz VUCC; Tom, K6UZZ has 10 and 24 GHz rigs working; Bill, WA6QYR was out on the 24 GHz VUCC effort; Chuck, WA6EXV was out for the 24 GHz VUCC effort and has his GPS with Qualcomm TCXO running; Frank WB6CWN is 3/4s the way on building 10 GHz rigs form Mexico and had a sample of the 3 foot dishes from the Nor Cal dealer and had a map of where he plans to go in Mexico this summer; Dick WB6DNX got his 24 GHz rig out for the VUCC effort and had his new 24 GHz rig to show his progress with the Verticom synthesizer.

The 24 GHz VUCC effort on 3 June had the following operators out. Ed W6OYJ; Dave, WA6CGR, Bill WA6QYR, Chuck, WA6EXV, Dick, WB6DNX and John KJ6HZ. Ed, Dick and John were at Heaps PK DM14KF at the start. Dave was in Diamond Bar DM13cx. Bill and Chuck were out in the Mojave area at the intersection of DM04, 14, 05, and 15. After contacts were made Ed moved to Diamond Bar while Bill moved to Heaps. By this time the path from Heaps to the desert had vanished, so Bill was only to make contacts with Ed and Dave in Diamond bar. Everyone seemed to have a good time making the contacts with the hopes of making the 5 grids necessary for 24 GHz VUCC. Chuck, WA6EXV already has some 39 grids on 10 GHz and a few on 24 GHz.



John, KJ6HZ and Dick, WB6DNX on Heaps Pk with their 24 GHz rigs working through the chain link fence to the desert.



Dave, WA6CGR in Diamond Bar working the 24 GHz stations on Heaps Pk.



Ed, W6OYJ with Dave in Diamond Bar using both narrow band SSB 24 GHz and wide band rigs.



Chuck, WA6EXV checking frequency on his wideband 24 GHz rig.

Email threads

Greeting Microwavers, I recently purchased from a northern CA surplus dealer a couple of new in the box 3' offset fed resin reflectors manufactured by Prodelin for Direcway, the satellite internet service provider. They are the classic high quality Prodelin reflectors, typically good to 24GHz and beyond, and come with the feed mount struts and hardware in the factory box. These antennas were designed to hold the weight of the satellite transceiver at the feedpoint so the bottom feed strut is a rectangular tube and the two side struts are conventional round pipes. I was pleased with the parts, service and price (Prodelin gets \$200 apiece before shipping, and shipping to CA is almost half that again). The seller tells me he has 40-50 sets of them for sale at \$75 ea plus shipping so I am sharing this with the microwave community. You can contact the seller directly clh@nocal-surplus.com to see pictures and buy them. See you on the air, Frank WB6CWN

The **annual SBMS Microwave Tune Up Party** will be held July 28 from 9:00 AM - 1:00 PM. Bring out your rigs and make sure they are ready for the contest. The place is same as last year in Fairview Park, Costa Mesa CA. We have reservations for the picnic shelter at the south end of the parking area. The San Diego guys will provide the test gear and can test for ERP and MDS on 10 and 24 GHz. If anyone has 47 GHz gear, let Kerry N6IZW or me know and he can bring some limited gear to check it too. We could use a few people to get there early to help hold our space and some help taking data. More info on the test methods and results from previous years are at

<http://www.ham-radio.com/sbms/sd/mdserpindx.htm>

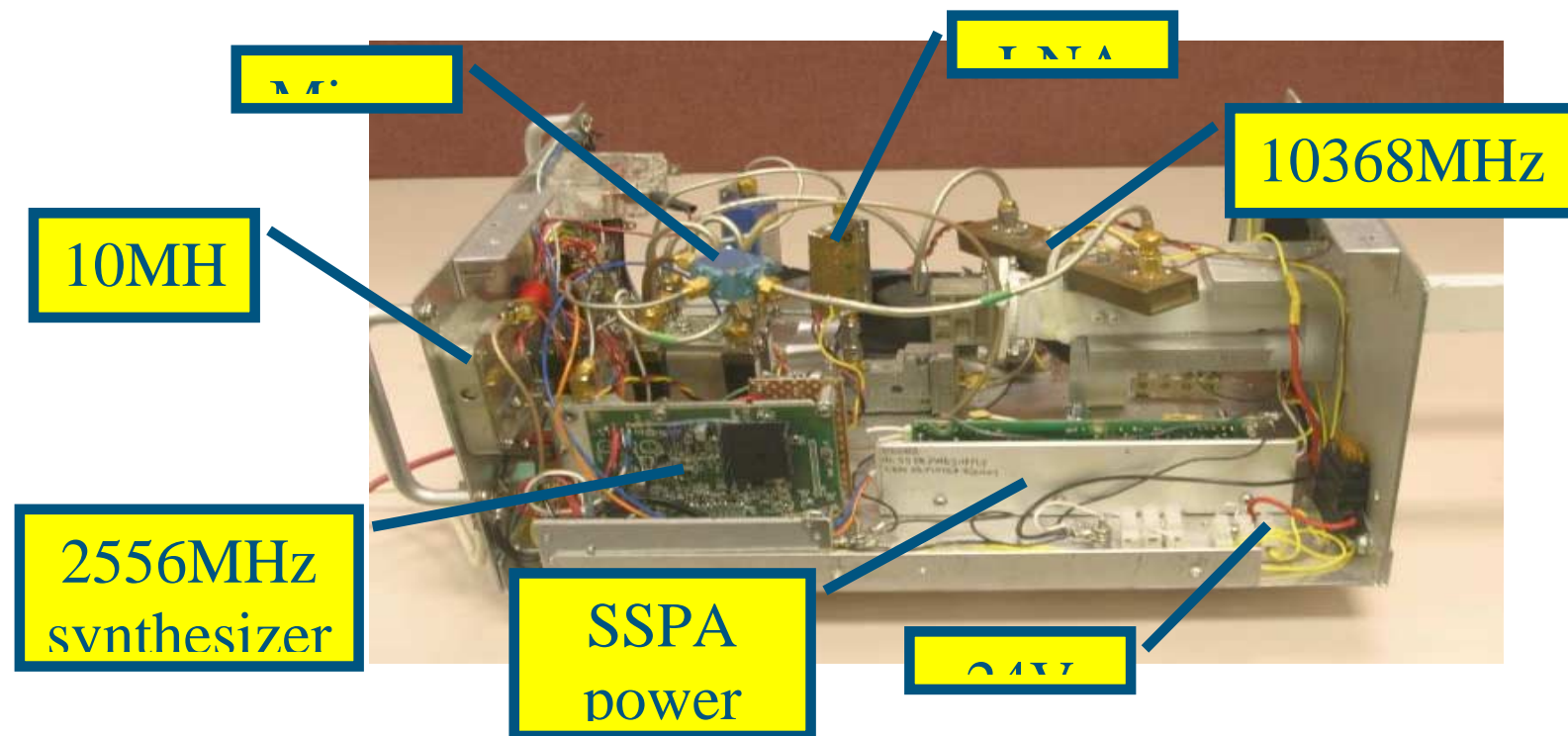
Directions from the 405 freeway are: South on Harbor, West on Adams and South on Placentia. Turn right into

the park at the light and go to the southern end of the parking area.

<http://maps.google.com/maps?f=q&hl=en&q=33.6613N,+117.9385W&ie=UTF8&t=h&om=1&ll=33.662184,-117.936763&spn=0.006304,0.013475>

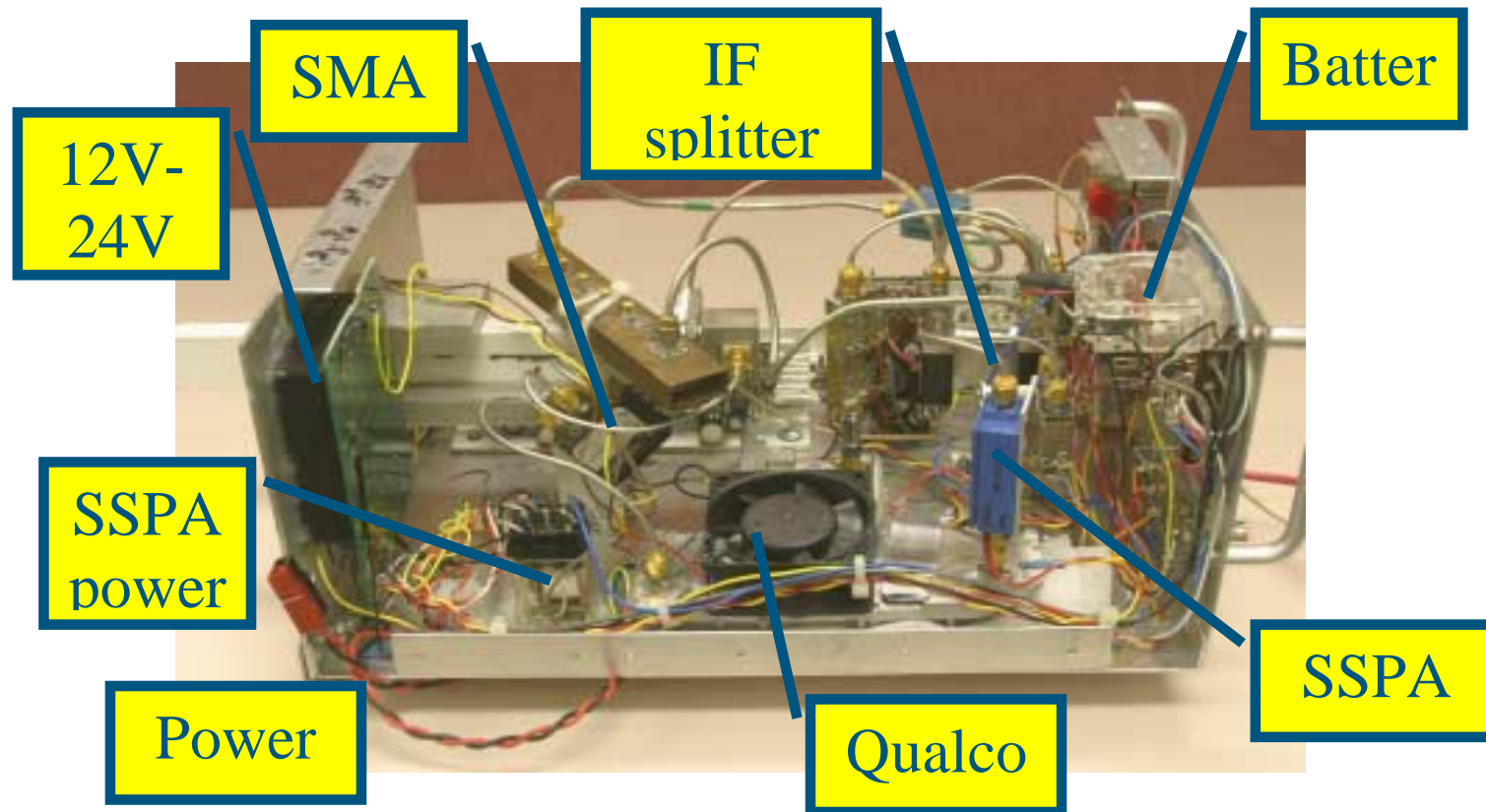
Thanks, John Oppen, KJ6HZ

From Wayne's, KH6WZ article on his 10 GHz rig built with lots of indicators and modules for ease of operation and repair.

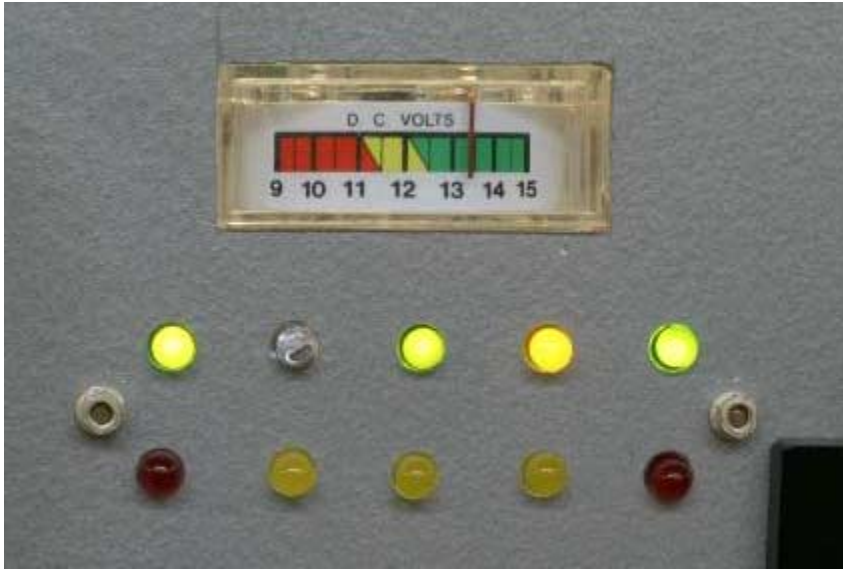


As you see I had trouble getting his power point article to move into Word.

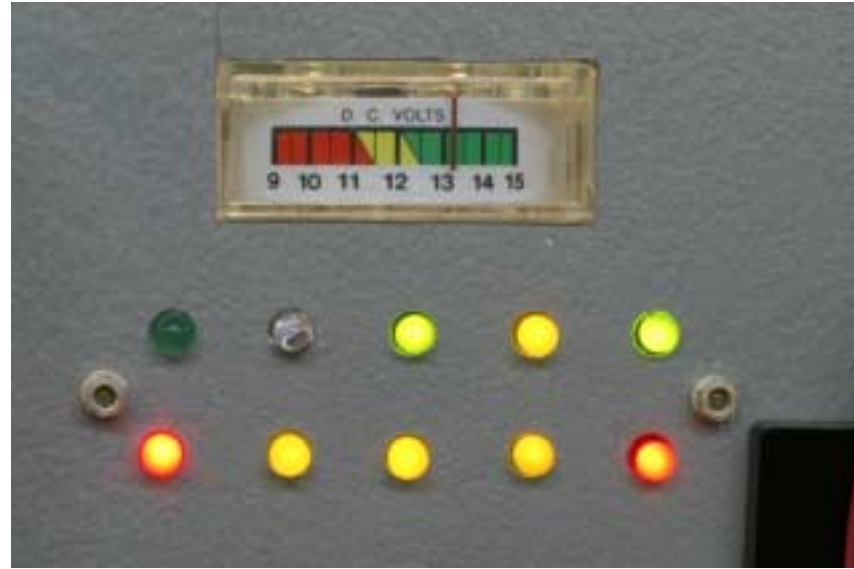
The other side of his rig.



Here is the front panel of his rig with all the LEDs to know what is going on.



Receive/standby



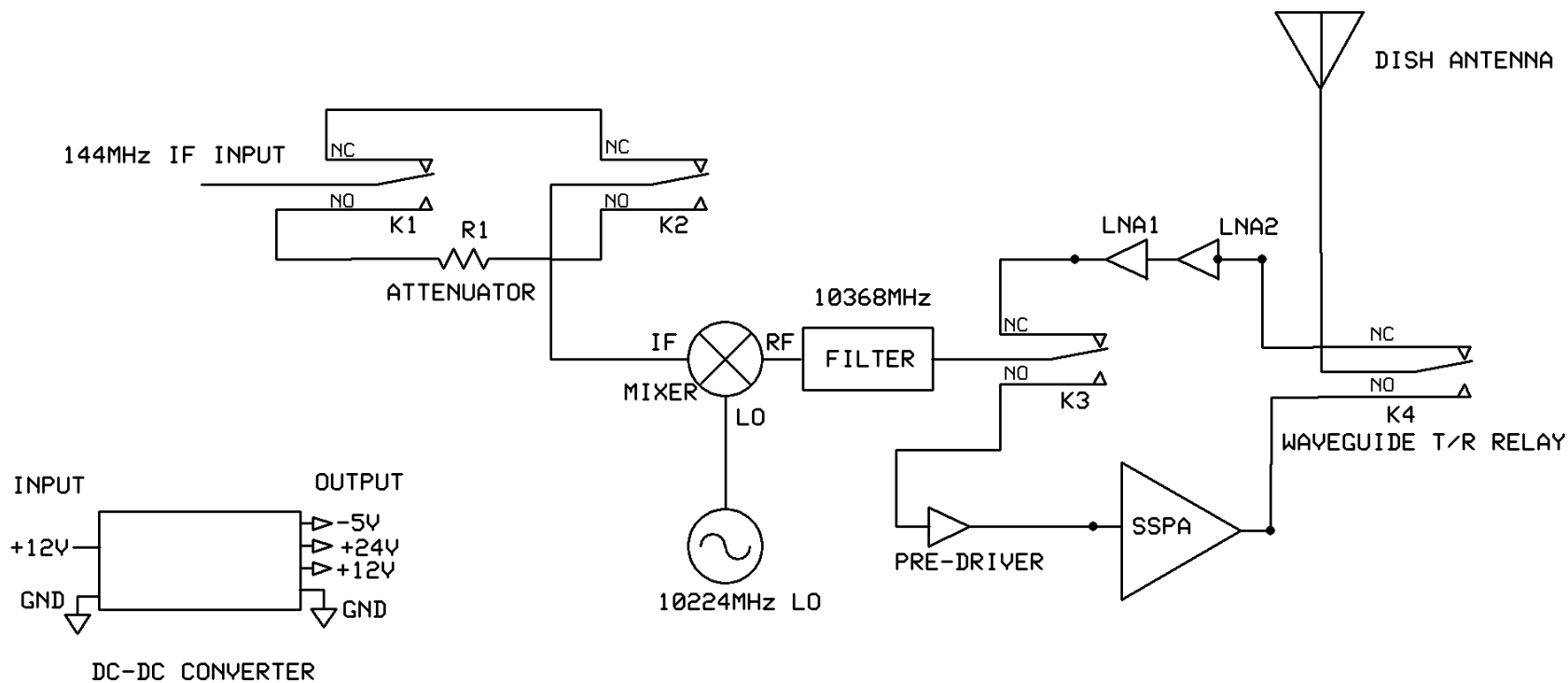
Transmit

There is no power switch on the rig: It is not necessary. Status LEDs show



Off

Here is the diagram of what he was building.



Thanks to Wayne for sharing his projects. Check the July QST page 28 for his 3-page article on 24 GHz rig. The July issue of CQ also has Wayne's "Beginner's Corner" with "The case for the code." featuring picture of WA6CGR at the key making magic.



Bill's, WA6QYR 24 GHz rigs for both narrow and wide band at the 4 corners location of DM05,15,04,14. The FT817 got hot as anything else laying in the sun. So a box covered it to keep it temperature down below boiling.

The **San Bernardino Microwave Society** is a technical amateur radio club affiliated with the ARRL having a membership of over 90 amateurs from Hawaii and Alaska to the east coast and beyond. Dues are \$15 per year, which includes a badge and monthly newsletter. Your mail label indicates your call followed by when your dues are due. Dues can be sent to the treasurer as listed under the banner on the front page. If you have material you would like in the newsletter please send it to Bill WA6QYR at 247 Rebel Road Ridgecrest,

CA 93555, bburns@ridgecrest.ca.us, or phone 760-375-8566. The newsletter is generated about the 15th of the month and put into the mail at least the week prior to the meeting. This is your newsletter. SBMS Newsletter material can be copied as long as SBMS is identified as source.

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