



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 January 2013 Edition

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At the **January 3, 2012 SBMS meeting** will have a talk by Tony KC6QHP on the UC Davis can radar. 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.

This year the newsletter will not be available in print copy. It will be available on line as it has been for some time. Members receiving print copy need to send their email address to Walter Clark at walterClark@roadrunner.com . Walter is taking over the task of newsletter editor. Bill, WA6QYR has decided to step down after some 30 years generating the copy. Rein Smit W6SZ is taken over the job of keeping the SBMS website up to date and will be working with Walter to produce the newsletter.

Minutes of the San Bernardino Microwave Society Meeting of 6 December 2012 by Walter Clark.

Chris Shoaff, President, called the meeting to order at 7:05 pm.

Guests Or Not Seen In a Long Time

- No one. Nor any New People. Dang (Only 17 people. We are going down each month)

The Secretary's Report

Walter Clark's report was approved by the members

The Treasurer's Report

- \$2003 in the general fund, no deposits, no expenditures

- auxiliary fund (beacon and OVR projects) dropped \$150 to \$6,850 (this is to Doug for the 24 G Beacon Parts)

Old Business

- **Christmas Party is Still On**
- **Owens Valley**
 - There was no discussion on the small mount at OVRO.
- **Beacons**
 - **The 24 GHz Beacon**
 - No discussion but Doug spent \$150 (details?)
 - **The 10 GHz Standard Beacon**
 - Chris mentioned during the Activity Reports that the PCB for the L.O. needs improving

New Business

- Bill Burns would like to turn over responsibility of the newsletter to someone else. (He's had this job since forever.) Your secretary volunteered to be interim. Rein volunteered to participate in the newsletter as well as the website.
- In the discussion on Rein's interest in maintaining the website it came up that he needs access to password and name for submitting and modifying the website. The secretary gathered there was a consensus that he be given that by Dave.
- Mel suggested that between Rein and Walter, they be the ones to decide whether the US Post Office delivery of the newsletter should be dropped. The secretary saw no objection from the membership.
- There was discussion on how the newsletter can be improved. The consensus among those doing the talking was that Rein and Walter should improve the shit out of both and make them refer to each other constantly as much as possible.

Activity Report (going around the room)

(Listed here is what the Secretary feels was the highlight of this part of the meeting)

Doug Millar

- bought a signal generator (2 to 18 GHz)
- mentioned an interesting facts about dates for EME contesting and the presence of background noise sources.
- he gave us a hint of the speakers for next year.

Rein Smit talked about his WSPR experience on 10 GHz with regard to weather.

Larry Johnson:

- **brought in his latest project, a field strength meter from 1 MHz to 18 GHz.**
- purchased an HP Oscillator at TRW Swap Meet

Bill McNally drove 400 miles gathering test equipment.

Dan Welch:

- is proceeding on machining parts for the next Am Sat called Fox-1
- taking names for 10 GHz omni antennas

Mel Swanberg

- is working on the 3 GHz Synthesizer part of the L.O. for the 24 GHz beacon
- he tried firing up three old 25 watt old-dusty X-band TWTs
- lots of activity on Cactus

Marty Woll

- Spent some time in the Philipeans, doing some ham activities there.
- He reminded us of the VHF Sweepstakes in
- He was involved with ARRL band plans now in the "scrub" version

Courtney Duncan

- He has his 20 watt 23 cm rig really working well.
- He recently received an 817 (Yaesu transceiver) and plans to use it for 10 GHz.

Walter Clark

- talked about his work making round to WR90 transitions
- He brought a transition made with a 3D printer

Jerry Martis

- **Asked for help with making and testing a 5.8 GHz LNA for imaging satellite work**
- **His project is to enable anyone in the world to use his 2.4 meter dish on that frequency. And someday do that in X-band**

Dick Bremer said his power amp was fixed by Brian Yee

Chris Shoaff is working on the X-band beacon

Members and Guests on the Aether

- Manning the TV broadcast equipment at our meeting:
 - Gary Heston who owns the gear and operates the TV equipment
 - Tom Board was on the south camera
- On video
 - Don was on with super high fidelity sound
 - Robby was watching (transmitting gear is on the fritz)
- Don Hill reported the following on internet:
 -
- Regular viewers on the Internet are members Susi and Gordon Lewis. They were at the Christmas party.

Tech Talk

Doug's very valuable talk compared the features and cost of three levels of test equipment. For your secretary, even the beginner level was mostly out of reach but the next two levels, were not that much more costly. (The levels seemed to be less than \$6dB apart.) But the point well taken was; if you can spend thousands of dollars for test equipment, Doug, along with Dennis, Mel and others in the audience made it clear that the most for you money was the equipment in Doug's highest level. No mention was made of brand new test gear other than the impression I got, was that with brand new stuff, such as a \$12K spectrum analyzer, the improvements are of diminishing returns for the amateur. Details on this fascinating talk are available on Doug's website.

Recording Secretary, Walter Clark (714) 882-9647

Scheduling:

February 7 SBMS meeting Rhode & Schwarz- new technology

March 7 SBMS meeting –nomination of officers- Maker Faire San Mateo has some 100 k people attend this show and tell on homemade projects. Come listen to Dennis W6DQ talk about what goes on there.

April 4 SBMS meeting- election of officers-Near field antenna range with Dan Slater.

May 2 SBMS meeting-ruggedizing your gear by Mel WA6JBD

June 6 SBMS meeting- show and tell on the 1 to 5 GHz bands. What does the equipment look like and what can you do on these bands.

July 4 SBMS meeting-Beginner microwave talk for other clubs. Dennis, W6DQ will show us how to do such a talk.

August 1 SBMS meeting- contest preparation

Wants and Gots for sale.

For Sale: 30w 1296 MHz PA kit \$50 + \$5 for US shipping Chris Shoaff, N9RIN cshoaff@yahoo.com

For Sale: 10 GHz slotted waveguide antennas \$55 kit, \$80 assembled plus shipping Dan W6DFW W6DFW@apex-scientific.com

NEED- HP 8694 8-12 GHz sweeper plug-in for 8690 main frame Chuck WA6EXV 760-382-0709

Want- an X-band plug-in for HP8620 sweeper. Bill WA6QYR bburns@mediacombb.net

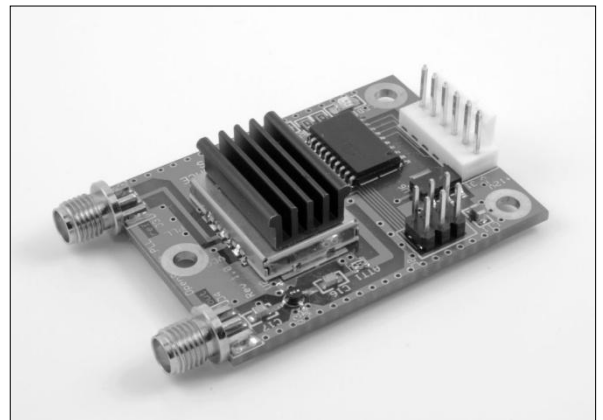
For Sale- Pre-estate sale- Ask Bill what you are looking for and he may have it for a good price. Bill WA6QYR
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60 degrees North Electronics Company. I am starting up a kit making service for assembling certain kits made by Down east Microwave. For those that do not want to make their own kits or maybe it's gotten too difficult, or just don't have the time or want assembled kit faster than DEMI can supply it. This one-man business so I will only be able to build a limited number per month. My price is the same as offered by DEMI assembled, plus shipping which should be medium-size flat-rate priority mail in the US. I am expecting to be able to deliver within 30 days of receipt of paid order. I am not carrying any inventory so this allows shipping time to obtain kits and any other materials, and time to test the finished product plus ship to the customer. At this time I am limiting this to the VHF/UHF 25w Transceiver kits. In a couple months I hope to add three amplifier kits from Communications Concepts, Inc. If there is a something special you want assembled contact me. My professional credentials are at: <http://www.k17uw.com/60NE.htm> Ed Cole



Introducing the **OpenSynth** line of frequency synthesizer kits. Available in standard frequencies of 2556, 2952, 2160, 1152, 3312, 3006 MHz, also available from 400 MHz to 3500 MHz.

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Available at <http://reactancelabs.com>

This is where your article can appear. Send Walter your inputs. walterClark@roadrunner.com



Ed, KL7UW and Janet from Alaska were at MUD 2012. 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 in the banner on the front page. If you have material you would like in the newsletter, please send it to Walter Clark walterClark@roadrunner.com 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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