



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 October 2005 Edition

President Chris Shoaff N9RIN 2911 Calle Heraldo San Clemente CA 92673 949-388-3121

cshoaff@yahoo.com

Vice President Dr. Doug Millar EED, K6JEY 2791 Cedar Ave Long Beach 90806562-424-3737

doughhelen@moonlink.net

Recording Sec Mel Swanberg, WA6JBD 231 E Alessandro Blvd Riverside, CA 92508 909-369-6515

wa6jbd@verizon.net

Corresponding Sec Kurt Geitner, K6RRA1077 E Pacific Coast Hwy TMB142 Seal Beach, CA 90740 310-718-4910 k6rra@gte.net

Treasurer Dick Kolbly, K6HIJ 26335 Community Barstow, CA 92311 760-253-2477

dick@eventhorizons.com

Editor Bill Burns, WA6QYR 247 Rebel Rd Ridgecrest, CA 93555 760-375-8566 bburns@ridgecrest.ca.us

Webmaster Chip Angle, N6CA 25309 Andreo Lomita, CA 90717 310-539-5395 chip@anglelinear.com

ARRL Interface Frank Kelly, WB6CWN 1111 Rancho Conejo Blvd. #501 Newbury Park, CA 91320

805-499-8047 wb6cwn@version.net

W6IFE License Trustee Ed Munn, W6OYJ 6255 Radcliffe Dr. San Diego, CA 92122 858-453-4563

w6oyj@amsat.org.

At the **6 October meeting**, updates on the Owens Valley project, and Microwave Update 2005 will be presented.

The **LAST** auction before the **26-30 October MUD 2005-**

Folks are to bring something to the auction off during the meeting for the benefit of the Auxiliary Fund, which is to provide extra monies to the treasury for MUD05 expenses. Here are three categories of sales:

1. Whatever it brings, give it to the club.
2. Starting bid needs to be met or it goes back to the owner. If it goes over that, it all goes to the club.
3. Starting bid needs to be met, the club gets a percentage of the final bid.

Put a tag on the items so that it is known which category they fit in.

There will be no more bidding for some one else to take something home.

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/>.

It was voted by the membership to change the SBMS Newsletter over to pdf format that can be delivered by Internet. So everyone that wants to receive it that way needs to provide a current email address to Bill, WA6QYR, and the newsletter editor. Those who wish to continue receiving the newsletter via USPS will need to indicate such to Bill at bburns@ridgenet.net.

Last meeting it was proposed that the Society present a "Flang" (mining tool) to members who have done some "interesting things" like three times hooking up power leads with incorrect polarity and still

wondering why the rig doesn't work and the fuses blow. The Society voted to donate \$300 to the YL group for a Tee-shirts project. Discussed tailgating contacts to make contacts or asking QRZ when completing a contact on 10 GHz.

Owens Valley Radio Observatory Project. Chuck, WA6EXV has completed the hardware assembly and first check out of the "receiver package box". On Saturday 17 September he transported it to OVRO for installation along with Mark.



On the left is the antenna end of the "receiver" package as it goes into the feed of the 130 ft OVRO dish. To the right is the connection end of the package where power and air conditioning ducts connect at the feed structure.

Scheduling.

3 November- Microwave Company reps on latest microwave developments we will have someone in from industry to talk about the latest developments. Door prizes!

1 December- History of Radio Astronomy- We hope to have a guest speaker.

YY December- Christmas Party at The Lab and Gift Exchange

5 January 2006- OVRO-SBMS Update and Report. Details of the Owens Valley Radio Observatory project with pictures and sound.

2 February 2006 - 1296Mhz High Power Amplifiers. Members will share their projects and results. Want to build an amp? Join us for a presentation by those who have had experience building them. Both solid state and Tubes

"Wants and Gots for sale"

Want manual for HP 8621B sweeper 100 MHz to 6 GHz Chuck WA6EXV 760-377-4972

For Sale- New "NW1 B" 24" dish, SP-2 reflector. w/ 24 GHz feed wr-42 AND 10 GHz feed w/ type N female socket. All for \$100. Prefer NOT to ship. Pickup at KH6WZ qth in Huntington Beach. or next SBMS mtg. Wayne, KH6WZ (714) 846-1230, KH6WZ@ARRL.net.

For sale - I have had responses for 1296 MHz transverters for sale. DEM13G2 \$325 W7QQ IC1271A Richard KrKPL Contact Doug, K6JEY for more info.

MICROWAVE UP DATE 2005

Chairman:	Pat Coker, N6RMJ of SBMS
Planning Committee:	Pat Coker, N6RMJ of SBMS David Peters, KI6FF of WSWSS Dennis Kidder, WA6NIA of SBMS
Presentations:	Chip Angle, N6CA
Publicity:	Wayne, KH6WZ
PRIZES:	Dave Glawson, WA6CGR
Registration & Finance:	Dick Kolbly, K6HIJ
Family Program:	Tisza Swanberg at YLactivities2005@aol.com
Surplus Tour:	Mel, WA6JBD
Vendors:	Dennis Kidder, WA6NIA
Proceedings:	Chip Angle, N6CA
Location:	Sheraton Cerritos Town Center

The SBMS web site has a MUD 2005 sub site, **mud-2005@ham-radio.com**.

Registration Desk helpers- looking for volunteers, wives or anyone to help man the registration booth from Wednesday October 26 afternoon or Thursday October 27 thru Saturday October 29, please contact Dick Kolbly K6HIJ 26335 Community Barstow, CA 92311 760-253-2477 dick@eventhorizons.com

Preliminary Agenda for Microwave Update 2005

Thursday October 27

Goldstone Deep Space Tracking Complex tour. You MUST pre-register for this exclusive MUD-only event: Deadline is September 30. Non-US citizens will be provided additional information regarding the Goldstone tour. Register immediately: a limited number of tickets are available.

If have already registered and you would like to go on this tour, please send an e-mail to MUD-2005@ham-radio.com.

Please click here for a preliminary agenda of the Goldstone tour.

An informal Surplus Tour will also run on Thursday.

Meanwhile, YL's and XYL's can participate in various Family Activities, including tours, outlet mall shopping and coffee gatherings. Pre-registration is required for most of the Ladies activities, so register immediately.

Friday October 28

Technical forums and presentations. World-renowned microwave hams will present a wide range of topics from the latest EME experiments and getting operational on the upper microwave bands to practical solutions and scrounging surplus parts for microwave band rigs.

In the evening, we will have a microwave swap and trade meet indoors.

Saturday October 29

The world famous TRW Swap Meet occurs early Saturday morning. Since you are in the neighborhood, you may want to stop by to see what the buzz is all about.

The WSWSS yearly meeting will begin in the morning while the TRW Swap Meet is going on.

MUD technical talks continue, with the MUD Banquet in the evening. Dr. Bill Weber N6CI, Director of Interplanetary Network NASA/JPL, will present "Solar System QRP with NASA's Deep Space Network."

Sunday October 30

The MUD 2005 Antenna Measurement Session will cover the amateur microwave bands from 1296 MHz to 47 GHz. The swap meet moves outdoors near the antenna range. Receiver Noise Figure and LNA Measurements Clinics will be performed from 902 MHz to 10 GHz and a Network Analyzer/Spectrum Analyzer Workshop will be held during the conference

Please send e-mail to mud-2005@ham-radio.com if you have any questions or comments.

Activity Reported at the July SBMS meeting- Pat, N6Rmj rebuilt some cables and built a 24 GHz rig; Jeff, KN6VR tuned up his rig and shortened some cables; W6QIW checked his rig with a sun noise of 2.6 db and a noise figure of 1.9 db; K6DYD assembled his rig before the contest and now has 20 w on 10 GHz; Gene K6DV has his 28 ft dish on EME; Ken, W6DTA tuned up and tested an LNA; Ed W6OYJ went to the tune up and worked on documenting the high side LO for the Pcom rig; Bill, WA6QYR went to the Boy Scout National Jamboree in Virginia and now has NOVA software for moon tracking; Chuck, WA6EXV built hardware for the OVRO project; Dick, WB6DNX is looking for an HP 101A manual to fix his 5 MHz reference; Mel, WA6JBD played with his 10 GHz radio; Doug, K6JEY went to the tune up and found he had -30 dbm out at 10 GHz and 2w at 9 GHz; Robin, WA6CDR went to the tune up and learned his IF radio is too narrow; Larry, K6HLH fixed his LNA; KF6C found his verticom synthesizer has failed again and has a new home build source; Mike, W6YLZ has sequencer problems; Dick, K6HIJ is working again on measuring the isolation of his waveguide switches on 24 GHz so is making a scaled unit on 12 GHz where better measuring equipment is available; Chip, N6CA has found it is better to connect up the feed to his antenna when making contacts; Wayne, KH6WZ did the tune up party and has added a CW switch to his rig; John, KJ6HZ is replacing his TR-9000 if radio; Chuck, N6EQ had a rig failure.

Photos from the second half of the 10 GHz and Up contest---



Mel, WA6JDB on Bird Spring Peak DM05wm before the wind blew the dish over. There was 150 pounds of sand bags holding the tripod in place.



Bill, WA6QYR was parked next to Mel on Bird Spring Peak with his Prime star car mounted dish and rig parked behind the dish. Every thing was moving in the mountain top winds on that Saturday 17 September. From reports of others out and about, the wind was blowing everywhere and microwave propagation was poor.



Chip, N6CA new model of 10 GHz rig with bigger power amplifier.



Wayne, KH6WZ new "breadboard: 10 GHz rig complete with night light.



N6CA out on the edge of an alfalfa field area where they got "crop dusted" during the contest



Chip, N6CA out in the field during the contest.

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.

San Bernardino Microwave Society newsletter
247 Rebel Road
Ridgecrest, CA
93555
USA