

SAN BERNARDINO MICROWAVE SOCIETY, Incorporated

FOUNDED IN 1955

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

## San Bernardino Microwave Society Newsletter

**Dinner before the July Meeting Marie Calendar's** (see below)

### Tech Talk for the July 6<sup>th</sup> Meeting . . .

Wayne Yoshida KH6WZ recognized early on that the Maker Faire was reaching young amateur technology innovators. Along with Wayne at the May 2017 Maker Fair, was from left to right, Dennis Kidder W6DQ, Lisa Gibbons KF6QNG, Wayne himself, Marty



Woll N6VI, Patricia Yee, and Brian Yee W6BY. They and other SBMSers have been re-defining the concept of "Demonstration Station" and exhibiting at Maker Faire events in Southern and Northern Calif over the last 6 years.

The presentation this Thursday will cover the Maker Faire mission statement and will show some of the projects exhibited.

**Come and join SBMS at the American Legion Hall, Corona:**  
11th and Main (See map below.)  
**Or watch the meeting "live" on the internet:** <http://atn-tv.org/live> (see below for more)

### **Brian Thorson on Wayne Yoshida**

Wayne KH6WZ is a professional communicator who has served on ARRL staff, in the corporate world, and is a columnist for CQ Magazine. His best DX on 10 GHz was 1,448 km (899.7 miles) while roving with N6CA in the 2007 10 GHz and Up contest. Wayne encouraged me to join SBMS in 2009 and got me out to the Microwave Tune Up in Costa Mesa - I owe him a debt of thanks. You will enjoy his talk - plan to attend if at all possible.

Brian

## **2 GHz and Up Contest Reports**

**From Jason Sogolow WB6IEE  
(at his home in Norco) →  
And Gordon West WB6NOA**



### **Pat Coker N6RMJ**

worked the 2Ghz contest from home...  
first time I really got to use the new 10GHz setup  
on the tower:  
2ft dish 9 watts at 75ft  
26 Qso's Average distance  
207 km / 128 miles  
Longest Qso 314 km / 195 miles  
Note: only one Qso was line of site



## From Brian Thorson on the 2 GHz and Up:

I found a new QTH to operate from in Riverside at an elevation of about 1800 ft. This is a residential street paved with blacktop- no dirt roads. View is north-west and possibly south. I worked . . .

Alta Loma, High Desert, Frazier, Costa Mesa, Wilmington and Newport Beach from here.





## Another 2 GHz & Up Contest is In the Books (Marty Woll)

The results of the 2017 running of the SBMS-sponsored 2 GHz & Up Contest are now official. Thanks to everyone who participated and contributed to the activity that makes this event so enjoyable.

The club competition award went to the home team! SBMS members submitted logs totaling 40,711 points; second was Northern California's 50 MHz & Up Group with 21,141 points. The Southern California Contest Club weighed in with 6,305 points. There were no entries received from Midwest stations this year.



Top individual score (along with the "Iron Butt" award) was claimed by Mike K6ML of the 50 MHz & Up Group, who roved from the Bay Area to the southern San Joaquin Valley and back with 10 and 24 GHz over practically the entire weekend. Congratulations to Mike!

Second place went to Marty N6VI, who lit up 2, 3, 5 and 10 GHz from Frazier Peak on Saturday and, accompanied by his XYL Clara KJ6CNO, from Saddle Peak on

Sunday. Third was Pat N6RMJ, who used his recently upgraded home station to snare both fixed and moving targets on 10 GHz.

Best DX on 2 GHz (and for any band) was 474 km by N6VI working W6DXJ (who did not submit a log). N6VI and W6IT shared the top-distance contacts on 3 and 5 GHz at 160 km each. On 10 GHz, it was KB6BA, who managed 403 km while roving on his way home from Southern California after having made a guest appearance at the SBMS meeting earlier in the week. Top scorer K6ML had the longest 24 GHz contact at an impressive 186 km.

Thanks to Wayne N6NB, who posts the rules and results on his Web pages (<http://n6nb.com/sbmsrules.htm>) and to Bill WA6QYR, who received and compiled the logs received

Next year's 2 GHz & Up Contest will take place on May 5 and 6, 2018. In the meantime, we have the ARRL 10 GHz & UP Contest to look forward to in August and September (see the events calendar in this newsletter).

# **Activities of the November SBMS Meeting**

(... which would be of interest to the General Ham Radio Community)

**Presiding: Jason Sogolow WB6IEE (Norco)**

**Visitor and those not seen in while:**

Burt Werner K6OQK

Rod Hamby N6JND

Frank Kelly WB6CWN

## **Before the Meeting**

SBMS officers experienced an interesting e-mail hack: an e-mail purportedly from Jason to Dick (President to Treasurer) asking for a bunch of money. We think it is a Yahoo hack related problem and it is now taken care of. For any such business, contact the person directly. Rein will remove e-mails and phone numbers from the website.

## **Old Business**

**none**

## **New Business**

Marty Woll N6VI reminded everyone in the SBMS 2 GHz and Up Contest to get logs in to Bill Burns WA6QYR by the deadline next Tuesday (6/6/17).

Frank Kelly WB6CWN has 433 MHz FM receivers to give away. They run 10 milliamps at 5V and are FSK receivers for home weather stations, etc. 50 KHz bandwidth.

Pat Coker N6RMJ has a box of the SBMS wallet size clear plastic waveguide measuring templates. He will give these Dick Bremer so that everyone who gets a badge will get one of them.

## What Our Members Are Working On

(Remember you can watch these reports live on <http://atn-tv.org/live>)

### **Dick Palmer WB6JDH (Whittier)**

is building QRP SDR radios for fun. He will be doing ARRL Field Day on Table Mountain with the Zuni group of QRPeers.

### **Dan Slater AG6HF**

is doing student experiments on HF but he's not quite ready to report. **Dave**

### **Marty Woll N6VI (Chatsworth)**

was in the 2 GHz Contest on Frazier Peak until snow started falling. Occupied Saddle Peak Sunday with Clara (XYL) KG6CNO four hours until the lightning started. Had a score similar to last year. Happy to see everyone get on. 24 GHz rig is slowly coming together.



Here Bill Locke, Dan Slater pouring through Chuck Swedblom's lifetime's worth of microwave gear. Past President Rein Smit appears to be making sure Dan isn't taking too much of the good stuff.

### **Steve Noll WA6EJO (Ventura) - (second camera operator)**

is usually watching from home and is here tonight to see Walter's talk. Building microwave dish feeds for the local ATV network.

**Dave Laag W6DL (Marino Valley)**

didn't have anything to say this evening. He was busy as first camera operator.

**Frank Kelly WB6CWN (Santa Ana)**

said this is his second SBMS meeting. He was on the air for the last two home-to-home nights. He worked the 2 GHz Contest for the two days sitting indoors with a dish pointing out window. He's thinking about the summer contests and working on 24 GHz.

**Bill Locke N6WL (Baker)**

was on 2.3 GHz for the contest but made no contacts. Submitted the gizmo of the month.

**Mel Swanberg WA6JBD (Upland)**

said that Jim KK6MXP came over a couple of times to go over his 10 GHz radio he bought from Chuck N6EQ. It consists of a DB6NT transverter with FT817 with some kind of bias T in coax between. Found four separate problems: a bad SMA connector, capacitor, solder joint, and PTT wire. Now the rig works and he's on the air. (Pat N6RMJ commented that this rig used to sit by Lazarus.)

**Wayne Yoshida KH6WZ (Laguna Niguel)**

was at the Bay Area Maker Faire with Dennis W6DQ, on the same weekend with the Dayton Hamvention. An ARRL Headquarters reporter stopped by and did interviews so they may appear in QST.

**Pat Coker N6RMJ (Lake Los Angeles)**

operated from home in the 2 GHz and Up Contest. Worked Frank WB6CWN in the contest, but not everyone. Doesn't know what more he could do to the station to do better. Ended up with 6000 points. Did work north past Kettleman City and into the Central Valley. Will rebuild right before the summer contest (1-1/2 months). Worked only Jim KK6MXP last night in the home-to-home event. Jim was on his usual place on the parking garage at Kaiser.

**Jim Blum KK6MXP (Ontario)**

worked everyone in the home-to-home event last night, five QSOs.

**Stuart H Landau K6YAZ (West Hills)**

attempted the 2 GHz and up contest from Mt. Wilson but didn't set the radio up in the rain. Sunday did Saddle Peak in the morning but no one else was on the air. Left when the clouds and thunder started. Is using "Junior" (10 GHz rig) that he bought from Dave WA6CGR. It is amazingly stable. May use a large offset dish in the contest, but needs a mechanical design to get the elevation down to the ground since it was originally meant for satellites.

**Dave Glawson WA6CGR (Wilmington)**

worked the 2 GHz Contest and heard more people on the air than he had heard in a long time. Was happy to see people on 2 and 3 GHz. Thanks to Marty N6VI for holding forth on Frazier. Probably made 25 contacts from the lab. Last night in the home-to-home event worked three of the five that were on the air. Couldn't hear Pat N6RMJ or Mel WA6JBD. The 2 GHz omni was hanging improperly from its support pole. It is straightened up now but the antenna needs repair. Dave is getting the lab ready for the "building stuff" meeting in July

**Rein Smit W6SZ (Alta Loma)**

worked four or five stations last night in the home-to-home event.

**Larry Johnston K6HLH (Lake Los Angeles)**

went to San Diego Microwave Group meeting last month. Kerry Banke K6IZW showed off his GPS receiver he built for use as a frequency reference. Larry went home and bought a couple of boards and built up his own. He passed around the completed project (pictured). It takes 2-3 minutes to lock up the first time. It is stable within tens of Hertz for the rest of the day. Doesn't move much when you unplug the GPS: 40 Hz (@ 10 MHz) The hardest part was putting it in the box with the square hole. Other components: the Arduino, circuit, not hard. Checked against his Spectran - the GPS he's had for 15 years, drifted 10 Hz per hour. Draws half Amp at warm up, then 400 milliamps. KJ6KO in Diamond Spring sells the boards - \$35 for one, \$60 for two.

**Dick Bremer WB6DNX (Brea)**

has put together a sheet containing the records of people who have paid dues. Attendees are invited to look at it and make corrections. This data is also intended to support badge making.



**Burt Weiner K6OQK (Glendale) ←New Member**

is getting stuff together to build 10 GHz rig. Has learned a lot here. Has worked in microwave professionally (satellite up and down) for years and is currently a broadcast engineer consultant mostly for radio frequency matters and directional AM antennas. Ham radio interest has been the Frequency Measuring Tests. He belongs to "FMT-nuts" group whose motto is: "Makes absurdly accurate off-air frequency measurements." Provides a service to measure broadcast station frequencies in the Los Angeles area.

**Courtney Duncan N5BF (Eagle Rock)**

reported that Sharlene Katz WB6FFE (professor at Cal State Northridge) has a class project CubeSat in orbit on 440. Students just hear beeping when it comes up over the horizon. The professors take out pencils and start copying CW telemetry! Worked five new 23 cm EME stations on the Italian EME (ARI) weekend last month, including his first SSB EME QSO with PI9CAM (Joanna DJ5YL, operator). Made two 10 GHz contacts in the 2 GHz and Up event. Both operators are here tonight - WB6CWN and WA6CGR.

**Jason Sogolow WB6IEE (Norco)**

got on the 2 GHz and up Contest from his deck which is level with the I-15 freeway. Worked Rein but, geeze, he's baseball toss distance away.

**Walter Clark (Fullerton)**

got Bill Locke N6WL to tell us the answer to the Microwave Gizmo Mystery of the Month! It's the temperature control cavity for a Klystron. The screw on the side adjusts the frequency of the Klystron. Adjustment on the back adjusts the temperature. The indicator gives mid range. Hot opens, cold closes maintaining klystron temperature and frequency. It is a Collins MW-100 series.

**Gary Heston W6KVC (Blue Jay)**

just got back from the Dayton Hamvention, which was held this year at a new venue. It was wet. All the grass turned to mud. First day had clogged traffic but the facilities are very nice. There were two tents for all the vendors with the swap meet in the center of a racetrack. Vendors, food, everything went off well.

**Rod Hamby N6JND (San Diego)** San Diego Microwave Society said he has been a ham since late 70s but is new to microwave. Showed a video of CMC construction of dish parts and asked for ideas. Wants to know where he can get a satellite dish to hook this up.

**Before the meeting** Mel Swanberg saw this strange apparition after loading Chuck's stuff and heading to the meeting:



Evil devil child not included. Mel said...

"We had a good laugh over it, and she's particularly proud of how her eyes are glowing."

## Events of Interest to the Microwave Ham Community

July 22	SMBS Tune-Up at Fairview park in Costa Mesa
August 3	SBMS meeting
August 5, 6	ARRL 222 MHz & Up Contest (Inaugural; distance-based)
Aug19, 20	ARRL 10 GHz & Up – Weekend #1
September 7	SBMS Meeting
September 9 – 10	ARRL EME Contest, 2.3 GHz & Up
Sept 16, 17	ARRL 10 GHz & Up – Weekend #2
October 5	SBMS Meeting
October 7 – 8	ARRL EME Contest, 50 – 1296 MHz, 1st weekend
October 27 – 29	Microwave Update 2017, Santa Clara, CA
November 4 – 5	ARRL EME Contest, 50 – 1296 MHz, 2 <sup>nd</sup> weekend

**If you have other events or more information on the ones listed; information that would help people decide whether to go or not, please send it to the editor at the email address below.**

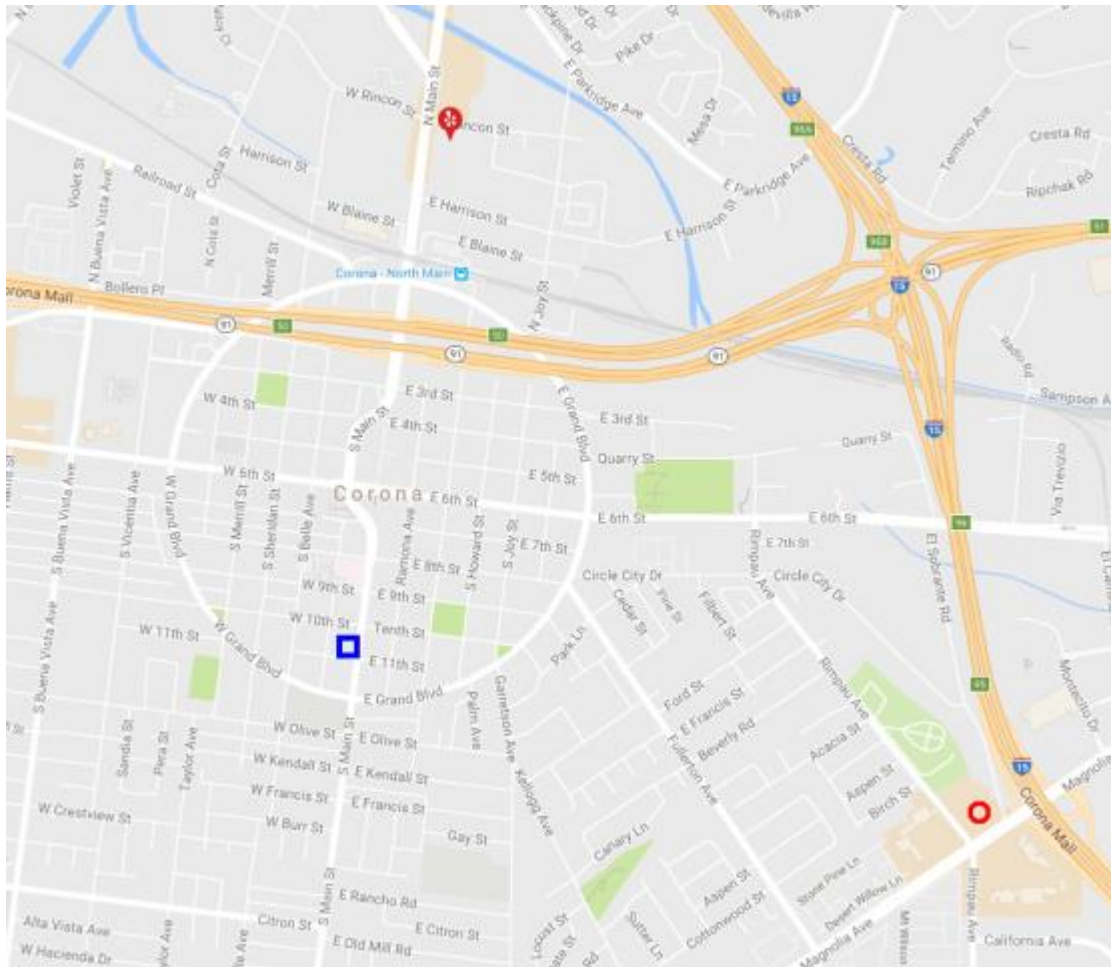
### Word from Dennis Kidder; a Progress Report

We are closer than ever to finishing the house. We passed final inspection June 15. We requested SCE to come out and put in the final hookup. Today (July 3<sup>rd</sup>) they pulled about 150' of wire through our underground duct to the house and tied it in. Before that, we had to disconnect the existing service and then rebuild the portion that feeds my ham shack and the garage. We will have a 200 A service, 100 A feeding the house, 100 A feeding the garage and 50 A feeding the ham shack.



“Dinner-Before” is like a people capacitor in that it is a gathering place for those who are trying to beat the traffic and have a variety of distances to come from. Some arrive as early as 4:00.

Marie Calendar's is on the north side of the 91 and as you can see on the map, both easy to get to from the freeway and easy to get to our meeting place from there; north on Main, over the train tracks and right on Rincon.





# Microwave Beacons for Southern California

<b>San Antonio Heights</b> DM14ed 34° 9'14.08"N 117°39'5.26"W	2304.320 (Transmitting grid for Johnstone Peak)	W6IFE	+27dBm	6dB Omni
<b>San Miguel</b> DM12mq 32°41'50.40"N 116°56'7.54"W	5760.000	K6QPVB/B	+34dBm	10dBi omni
<b>Palos Verdes</b> DM03ts 33°44'47.45"N 118°20'10.60"W	10368.300 (OFF THE AIR for now)	N6CA/B	+32dBm	14dBi omni
<b>Mt Frazier</b> DM04ms 34°46'29.85"N 118°58'8.38"W	10368.310	N6CA/B	+31dBm	14dBi omni
<b>Santiago</b> DM13fr 33°42'37.56"N 117°32'3.43"W	10368.330	KE6JUV	+27dBm	10dBi omni
<b>San Miguel</b> DM12mq 32°41'50.40"N 116°56'7.54"W	10368.360 (One of Two on San Miguel)	N6IZW/B	+27dBm	12dBi omni
<b>San Miguel</b> DM12mq 32°41'50.40"N 116°56'7.54"W	24192.050 (This one aimed north toward LA and Orange County)	K6QPVB/B	+34dBm EIRP	Horn

All beacons are horizontally polarized.

(see Mel Swanberg to update this list)

# **Home to Home**

## **This Wednesday Evening; (don't forget)**

### **Rein Smit, W6SZ (Alta Loma), Past President SBMS**

is encouraging all Southern California microwave hams to try contacting each other from their QTH the night before the SBMS meeting.

**The intent is to learn home  
to home capabilities and to  
discover tricks to use them.**

The Wednesday before the meeting: 10,368.100 MHz, CW or SSB.  
WA6JDB, N6RMJ and W6SZ will be looking/listening for your signals.



We'll be listening on 10368.100 starting at 21:00 PDT. We have been using the LARA Santiago repeater for liaison. Since that doesn't cover the high desert, we will use the LARA/Cactus repeater located on Heaps Peak, so the desert dwellers can check in,

The frequency is 448.86- PL 100.0 It will be configured in a stand alone mode so it doesn't bother anyone.

Mel - WA6JB

Pat Coker's Prodelin on  
his tower. 9 watts at 75'

"Provided a time sufficiently before or after the QSO party's time, W6SZ can position his radio before his home and can then utilize Keller Pk as a bouncing point for working points to the north."

Rein W6SZ

# **The Central States VHF Society Conference**

## **Has never been closer to Orange County than this year's.**

It will occur in Albuquerque, New Mexico on July 27-30 at the Sheraton Albuquerque Airport hotel, hosted by the members of Rocky Mountain Ham Radio. This event is the largest VHF/UHF/microwave conference in the nation, and attracts some of the most knowledgeable VHF/UHF/microwave hams from across the United States, Canada and other countries.

This conference is open to those interested in learning about or getting involved with, operating on, experimenting with, designing, contesting, DXing, etc. on amateur radio's VHF, UHF, and microwave bands. The conference welcomes all hams who are merely curious about action on VHF & above, just getting started, or experienced.

Activities include semi-technical and technical presentations, a display of VHF/UHF/microwave contest rover vehicles from around the nation, a display of portable microwave stations and dish antennas, posterboard presentations, a VHF/UHF/microwave equipment swapfest, luncheons and banquet dinner with guest speakers, prizes, an outdoor antenna range for attendees to measure the performance of their VHF/UHF/microwave antennas, a specially arranged tour of the NRAO Very Large Array (VLA), family activities, and more.

There will also be an program designed especially for beginners: VHF101 and VHF102 will consist of activities and presentations tailored for the curious and for beginners, teaching what the world of VHF/UHF/microwaves is all about, the exciting activities that happen on those frequencies, how to get started, where to find resources, and more.

For complete details about this year's Central States VHF Society Conference, including the schedule of events, the presentation lineup (including abstracts and speaker bios), tours and family activities, conference hotel information, and much more, visit the conference website at <http://2017.csvhfs.org> <<http://2017.csvhfs.org/>>

Online registration is open and underway. Visit <http://2017.csvhfs.org> <<http://2017.csvhfs.org/>> and click on the "Registration" menu to get started.

Brian N5ZGT

2017 Central States VHF Society President

<http://2017.csvhfs.org> <<http://2017.csvhfs.org/>>

# Microwave Mystery Gizmo of Last Month



Bill Locke N6WL told us that it is the temperature control cavity for a Klystron. The screw on the side adjusts the frequency of the Klystron. Adjustment on the back adjusts the temperature.

The indicator gives mid-range. Hot opens, cold closes maintaining klystron temperature and frequency. It is a Collins MW-100 series.

If you would like to discuss this, use the SBMS Reflector by sending an e-mail letter to . . .

[SBMS at-symbol lists.altadena.net](mailto:SBMS at-symbol lists.altadena.net)

If you don't have an account sign up at this website:

[sbms at-symbol ham-radio.com](http://sbms at-symbol ham-radio.com)



## Gary Heston's ATV Mobile Studio W6KVC

Not only can you watch our meetings live (well delayed by 240 milliseconds). You can chat with other viewers about what you are watching (or anything else).

**This is how to watch SBMS meetings from home:**

<http://atn-tv.org/live>

What you will see is this →

It's a British website (that's the B in batc.tv) You do not need to log in to be able to watch the video and participate in the chat. You will be automatically put into the right video channel. It is W6ATN. The "W6" for California of course and the ATN is for Amateur Television Network. W6ATN is the club call sign for eight ATV repeaters that are a part of the Amateur Television Network in Southern California. (ATN-CA)

Gary Heston's mobile studio beams a 2.4415 GHz FM video (analog) signal to the ATN repeater on Santiago Peak maintained by Mike Collis WA6SVT. (Gary monitors the signal from the repeater on 5 GHz.) From Santiago Peak on 5 GHz Roland Hoffman KC6JPG puts it on the internet by way of the website BATC.TV described above.



When Roland Hoffman is substituting for Gary Heston at the SBMS meeting, he streams to the internet directly by way of a mobile hotspot to a cell phone tower, thereby eliminating two lower bandwidth RF paths (SBMS to Santiago and Santiago to Roland's QTH).

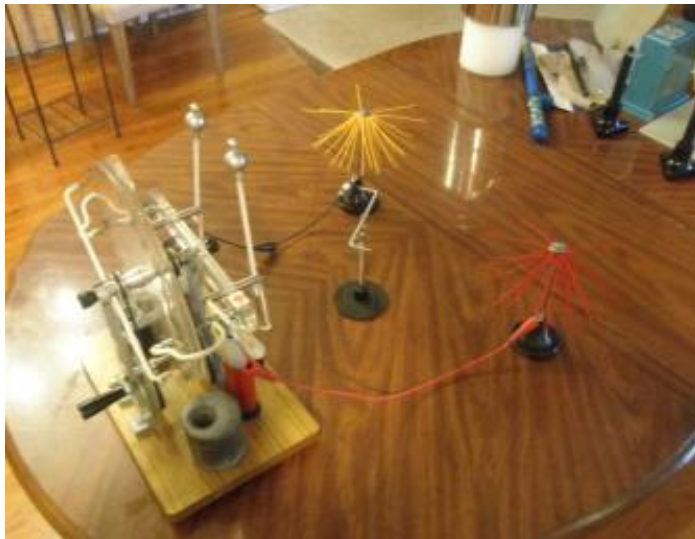
The ATN network linking is all done using FM microwave links on 2.4 GHz and 5 GHz bands. When they go digital, they use DVGT (Digital Video Broadcast-Terrestrial) standard. It is the European standard for over the air TV. The "terrestrial" part is a format that is better with multipath. The only difference ATN has done is use 2 MHz B/W to fit within the 433-435 space between the weak signal and satellite sub bands.

- He transmits analog first.
- Snow Peak is the first digital station.
- There is a 2-3 second delay to digital users.
- There are also nodes on Mt. Potosi and Mt. Lemmon.
- Note: some meetings are recorded for archive.

# The June Meeting Tech Talk was given by Walter Clark (Fullerton)

## On Electrostatics

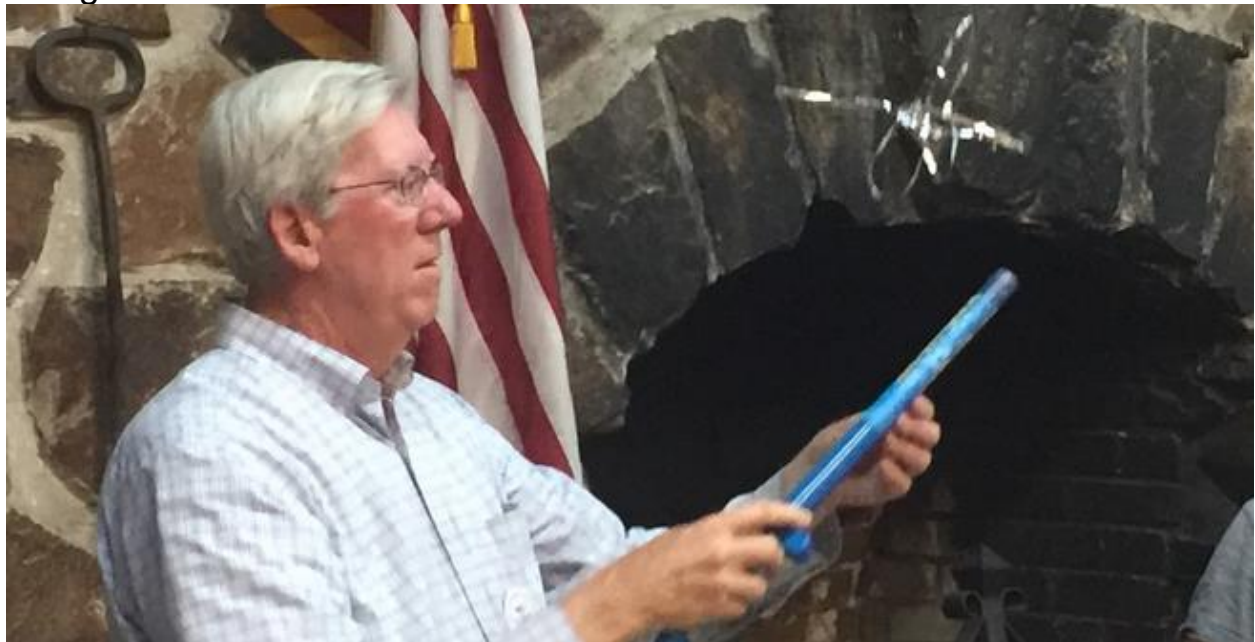
His talk was about the physics of electric fields and moving static charges around. The slide show was written around the equipment he has.



All physics demonstrations, not just those of static electricity, tend to be historically the oldest discoveries in physics; typically 19th Century where the equipment took on a Joules Vern quality.

The talk is the inspiration of Pat Coker N6RMJ who gave Walter the Wimshurst machine that made the static charges used in the various

demonstrations. Although there was no Van de Graaff, much of the talk and demonstrations were to explain how the metal sphere on top gathered charge.



## Needs, Wants and For Sale (updated 1 June 2017)

**For Sale from Bill Burns:** Bill will only rarely comes to the meetings, so if you want any of this, please contact him by phone or email.

phone: 760-375-8566      email: [bburns@symbolmediacombb.net](mailto:bburns@symbolmediacombb.net)

His address is: 247 Rebel Road Ridgecrest CA 93555

- Three IC-22S two meter FM rigs **free**
- 1 meter offset feed dish and 10 GHz feed \$20.
- Steel TV push-up masts **free**
- aluminum tubing, ½ inch to 3 inch diameters, 1/16<sup>th</sup> wall **free**
- Stainless steel powder cans 15 inches in diameter by 23 inches high with lids **free**
- Power pole 14.5 ft tall by 1 ft diameter **free**
- Many round meters, ma, volt, frequency, misc. **free**

## Sixty North Electronics (as of April 29, 2017)

"Thank you for allowing me to advertise my small kit making business in the SBMS Newsletter.

I am discontinuing my kit making service at this time. I want to thank all my customers for allowing me to build their kits. We are going to do some retirement travel and enjoy having more time for my own ham radio endeavors. This applies to both the DEMI kits and W6PQL amplifiers that I constructed.

I will continue to service PayPal orders of WA2ODO preamps:

[http://www.kl7uw.com/WA2ODO\\_PayPal\\_Sales.htm](http://www.kl7uw.com/WA2ODO_PayPal_Sales.htm)

73, Ed - KL7UW <http://www.kl7uw.com>

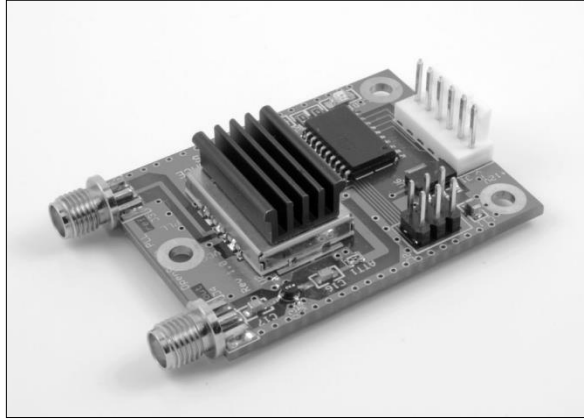
Dubus-NA Business mail: [dubususa@gmail.com](mailto:dubususa@gmail.com)



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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- ⤴ Ultra low noise voltage regulators
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- ⤴ 2" x 1.5", 12V @ 140 mA typical

Available at <http://reactancelabs.com>



If you are a member you can have a picture ad here yourself.  
For the time being this service is free.  
eMail the editor at: WalterClark at roadrunner.com



## About SBMS

The San Bernardino Microwave Society is a technical amateur radio club affiliated with the ARRL having a membership of over 90 amateurs. The focus of the club is microwave activities in the Southern California. ***Our sister club is San Diego Microwave Group (SDMG).***

### Official Address

**San Bernardino Microwave Society**  
417 South Associated Road #146  
Brea, CA 92821

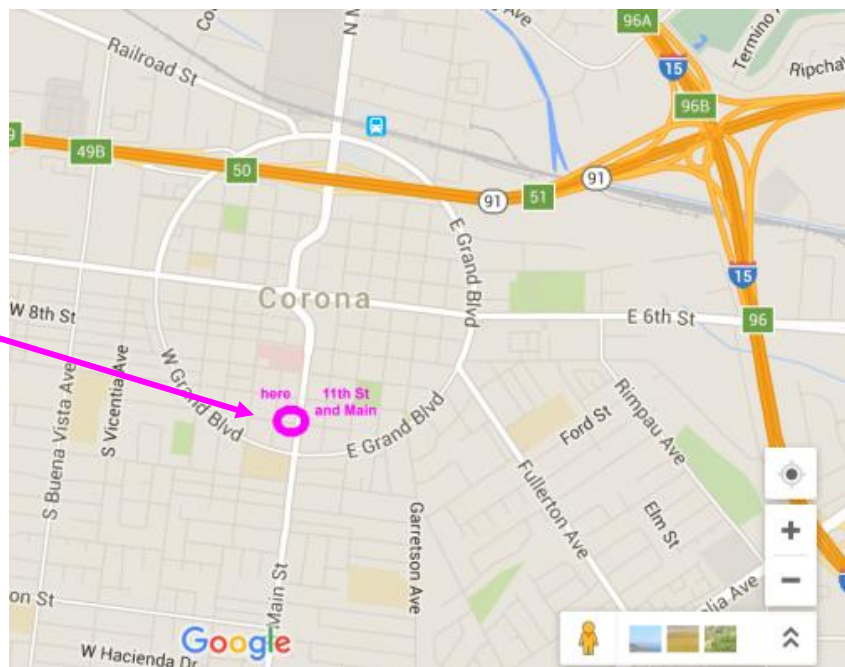
SBMS dues are \$15 per year, which includes a badge and that's about it. The dues are more in the way of a donation to pay for outreach things such as video portals, a bank account, and rent for the building. When to pay is not a matter of remembering. The Corresponding Secretary will contact you by email and will then hound you like your own personal PBS telethon. Dues can be handed to the treasurer at the meeting, or mailed to the address of the treasurer listed in the banner below.

**Meetings are first  
Thursday of the  
month, 7:00 PM**

**Google Map:  
Keywords: American  
Legion Hall, Corona**

For carpooling from North  
Orange County call Dick  
Bremer at: 714-529-2800

If you can't make it:  
watch online through Gary Heston's mobile video facility W6KVC by way of  
the internet out of England: <http://atn-tv.org/live>



# Services Sponsored by SBMS

## **The Reflector (Group Email)**

The most active method of information exchange is our group email called the SBMS Reflector. You don't need to be an SBMS member to participate. To subscribe fill out the form at the website: <http://lists.altadena.net/mailman/listinfo/sbms> After that, Send your email message to: sbms at-symbol ham-radio.com. (If you are getting email on the SBMS Reflector now, and you want to write your own message, pull up a recently received message, click on "Reply to List." Don't forget to change the subject line and delete all previous text as appropriate.)

Responsible person for this: Dave Glawson WA6CGR wa6cgr at-symbol ham-radio.com

**Website: Rein Smit W6SZ:** rein0zn at-symbol ix.netcom.com

The URL is: <http://www.ham-radio.com/sbms/> But you don't have to memorize that or write it down, just enter SBMS into any internet search engine.

**Newsletter: Walter Clark:** [walterClark at-symbol roadrunner.com](mailto:walterClark at-symbol roadrunner.com)

The newsletter is distributed by way of the SBMS Website: [www.ham-radio.com/sbms](http://www.ham-radio.com/sbms). The purpose of the SBMS Newsletter is to keep hams everywhere in the world informed on current activities of the "active" members of the San Bernardino Microwave Society. Active Members include those who:

- come to the meetings and share their progress
- use ATV to report in and describe their projects
- send by email words and pictures of progress to the above

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  - come to the meetings and share their progress
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  - send by email words and pictures of progress to: walterclark at-symbol roadrunner.com
- Time sensitive questions, reports or just plain bragging is for the SBMS Reflector. Send your email message to: sbms at-symbol ham-radio.com. To sign up go to:  
<http://lists.altadena.net/mailman/listinfo/sbms>

# Contact San Bernardino Microwave Society (SBMS)

**President: Jason Sogolow WB6IEE**

w6iee.73(at-symbol)gmail(dot)com

**Past President Rein Smit W6SZ**

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