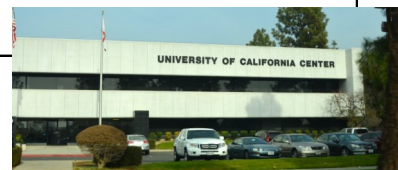




**Meeting location!** East of Hwy. 41 on Shaw Av. 7 P.M. on the second Friday of the month at the University of California Center at 550 E. Shaw.



### FARC General Meetings

are held the 2nd Friday of each month, 7 p.m. at the University of California Center on Shaw Ave. unless otherwise noted. Stay tuned in for new announcements.

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**2018 FARC BOARD MEETING DATES**  
1st Tuesday of each month, this month at WB6VRJ's QTH.

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### FARC Nets

Morning Drive Time Net:  
Weekday mornings-7:30—8:00 a.m.

W6TO/R 146.940

### FARC Net:

Sundays @ 7:00 pm  
W6TO/R 146.940

### Web page:

W6to.com

Nest club meeting:

**July 13, Friday  
7 P.M.**



Field Day is the forth full weekend in June, and hams participate in many different ways.

As an emergency preparedness test it can cover all sorts of scenarios, including HF, VHF, different modes, and emergency power.

This is the portable station for K6MI, in the 1A SCV section at 5,000 feet.

Check out the different stories of our club members in this issue.

## July meeting “New and Old”, with ice cream. New hams and old, new radios and old radios! Always a popular meeting!

7:00 P.M. Friday July 13.



Bob, W6AIY

The FARC Field Day was **Canceled**. The weather that weekend was going to be 105 and 106. and that is just too hot for Ham Radio and their operators to be out in the field. I am sorry to have to cancel FD but it is not a good idea to try to have field day when it is that hot.. We also want to thank everyone who has worked on this field day and everyone who has volunteered to work. Thank you. Bob W6AIY & Dennis KI6NVG, FD Chairmen.



Dennis, KI6NVG

### PREZ SEZ

Well, some old-timers do get recognition, after all! I joined ARRL a long long time ago, when life memberships were cheap [ask a Scot]-and just the other day, I received a pin from ARRL, celebrating 50 YEARS of membership!



At the last club meeting, we had a great turnout! I was pleased to see that Ron N6MTS, won the first prize. Yeah, we missed having Joe WA6FFJ here, to keep us in line-but he promises to b back! Ken Holden, brought a very pretty cousin, Sharon, up from Ramona-while not a ham yet, she is interested. Speaking of interesting-there was a free pile of CQ magazines there, so I helped myself. It is a lot of fun to read one from 2011, and to see the progress made in Ham Communicating from then to now! What a change.



See Ya! WB6VRJ

### June meeting was our FD meeting.

May Meeting Joe, WA6FFJ, part 2– how to use the Kill a Watt and Variac to work on your radios.

April Meeting- Hacking the Kill A Watt

How to modify the plug-in watt meter for a new use. And how to use the modified meter.

March meeting- Dean, AF6MC, gave a great talk about power connectors, and showed an amusing video which elicited laughter and groans from the group.

### FARC

Send your dues check to FARC, PO Box 5912, Fresno 93755-5912

Refer questions to Joe/WA6FFJ 288-2202 Board meeting on the first Tuesday at Stu's place.

## AMATEUR RADIO EXAMS IN FRESNO

Exams given for  
TECHNICIAN, GENERAL, and AMATEUR EXTRA  
Sponsored By the FRESNO VE TEAM  
And The FRESNO AMATEUR RADIO CLUB, INC.

### 2018

Exams for all Amateur license classes will be conducted on the following dates in Fresno California. All exams are given on Saturday and begin at 9:30 AM.

**August 18**

**Nov. 17**

LOCATION: ....Salvation Army Fresno Citadel, 1854 Fulton Street, Fresno CA 93721

DIRECTIONS: From North or South of Fresno, Take Highway 99 to Highway 180 east. Go east on 180 to Fulton Street off ramp. Turn right on Fulton Street. Go south on Fulton across Divisadero to Sacramento Ave. Turn left on Sacramento Ave and park. You have arrived.

Theory exams are multiple choice. First Class mail is used to send paperwork to ARRL, who sends data to FCC via electronic mail, thus assuring the fastest possible service on new licenses, which typically are posted to the FCC database by the end of the second week following the exam.

BRING. Two ID's, one with photo. Taxpayer ID Number (Social Security Number), or FCC Registration Number (**preferred**). Fee **\$15.00** per test session. Bring exact change. **Original and copy of Amateur License.** Talk in on 146.94 repeater.

Walk in's only, no pre-registration. More Info?? Contact Charles, (559) 431-2038



## 2018 FARC BOARD OF DIRECTORS

### FARC Officers and Board members:

Stuart Home, WB6VRJ President	wb6vrj@w6to.com	(559) 485-8659	12/2019
Ken Holden, WA6OIB VP	wa6oib@w6to.com	(559) 323-6753	12/2018
Joe Cardoza, WA6FFJ Sec.	wa6ffj@w6to.com	(599) 455-1071	12/2019
Ron Hunt, N6MTS Treas.	n6mts@w6to.com	(559) 289-8514	12/2018
Jim Erbe, W6NIF	w6nif@w6to.com	(559) 222-7524	12/2018
Bob Sherwood, W6AIY	w6aiy@w6to.com	(559) 275-4319	12/2019
Larry Kramer, K6VLF	k6vlf@w6to.com	(559) 264-0772	12/2019

### Web master

Aaron Lusk, K6USY	k6usy@w6to.com	(559) 301-1022
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### Skip Editor

John Morrice, K6MI	k6mi@pacbell.net	(559) 275-7373
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Ron, N6MTS  
Treasurer



Joe, WA6FFJ  
Secretary

Breakfast on Saturdays at Blueberry Hill located at Blackstone North of Dakota, starting at 6:30 A.M.. Join the DX'ers and all the area hams for breakfast

Also Breakfast every Tuesday at 8 A.M. at *Denny's* on Shaw, East of West.

The Quarter Century Wireless Association Lunch is held on the fourth Tuesday of the month at Jeb's Blueberry Cafe on Blackstone at 11:30 to 1 P.M..

The Thursday ham radio lunch get-together meeting location is:

Jeb's Blueberry Hill  
3851 North Blackstone Avenue  
Fresno, CA 93726

Send Skip items to Skip editor John Morrice, K6MI at: k6mi@pacbell.net

You can download this and past Skip issues under the Document Archive menu by visiting **w6to.com**.

Be a net control op! Contact Joe, WA6FFJ at: nailbender@unwiredbb.com.

### Event-Date

#### July 13 7 P.M. FARC Meeting

#### Aug. Club Picnic

San Joaquin Valley Nets:

The Noontime net meets on 7.268.5 MHz. This net handles a lot of messages.

Daytime Region 6 Traffic Net meets daily at 3:30 pacific time on or near 7.275 MHz. This one is probably not in operation at this time.

The California Traffic Net meets daily on 3.906 MHz and 6:00 PM local time.

The Golden Bear Amateur Radio Net meets nightly at 7:00 PM local time on 3.975 MHz.

Northern California Net (NCN), the Section Traffic Net, meets nightly on 3.533 MHz at 7 PM Pacific Time.

San Joaquin Net meets Monday-Saturday on 3918khz, at 6 PM Pacific Time.

Western Public Service System (WPSS) meets nightly on 3952khz, roll - at 7:30 PM local Pacific Time.



The Mission Trail Net meets nightly on 3.856 MHz at 8:00 PM local time.

Northern California Net 2 (NCN2) The slow speed training session of NCN, meets nightly on 3.533 MHz at 9 PM Pacific Time. Handling traffic on CW is a good way to improve your CW skills.

## Local Amateur Radio Repeaters

<u>Organization</u>	<u>Call Sign</u>	<u>Frequency</u>	<u>Offset</u>	<u>PL</u>
CARP	K6ARP	147.675	-	141.3
CARP	N6JXL	224.380	-	141.3
CARP	K6ARP	444.725	+	141.3
CARP	NI6M	440.350	+	141.3
CONDOR	WB6BRU	224.900	-	156.7
FARC	W6TO	146.940	-	141.3
FARC	W6TO	223.940	-	141.3
FARC	W6TO	444.200	+	141.3
BRA	W6FSC	145.230	-	141.3
BRA	W6FSC	443.450	+	141.3
KINGS ARC	N6CVC	145.110/444.95	-	100.0
NC9RS	NC9RS	927.6625/902.0125	-	146.2
MADERA ARC	W6WGZ	147.180	+	146.2
MADERA ARC	W6WGZ	441.175	+	146.2
QCWA	WQ6CWA	146.850	-	141.3
QCWA	WQ6CWA	443.250	+	107.2
RACES	N6HEW	147.150	+	141.3
SJVARs	KE6JZ	146.820	-	141.3
TURLOCK ARC	W6BXN	147.030	+	100.0
W6NIF	W6NIF	444.100	+	100.0
WINSsystem	K6JSI	146.790	-	100.0
WINSsystem	K6JSI	444.250	+	100.0
CVRC	K6WGJ Fresno Low	145.43	+	141.3
CVRC	N6VRC Meadow	147.165	+	141.3
CVRC	N6VRC Meadow	440.025	+	141.3
CVRC	N6VRC Santa Rita	147.285	+	141.3
CVRC	N6VRC Santa Rita	442.275	+	141.3
CVRC	N6VRC Visalia	442.525	+	141.3
CRVC	N6VRC Porterville	443.825	+	141.3
CVRC	K6WGJ Fresno Low	444.975	+	141.3
CVRC	N6VRC Bear Mt.	443.950	+	141.3
CVRC	N6VRC Mt. Bullion	442.350	+	141.3
CVRC	Bear	927.05	+	141.3
Meadow Lakes	WA6OIB	146.61	-	141.3
WA6IPZ	WA6IPZ	52.84	-	82.5

Remember to keep you dues current for both the attendance prize and the birthday and anniversary listings.

### ***Birthdaydays***

07/04 Greg KM6GSO  
07/11 Arlen WB6VAF  
07/13 Chris KK6QCP  
07/21 Stu WB6VRJ  
07/30 Bob W6AIY

### **Anniversaries**

07/10 Ken WA6OIB & Gwynne WA6VZM  
07/11 Lisa & Ron N6MTS  
07/21 Chris KK6QCP  
07/18 Vicki & Glen N6HEW  
07/24 Gloria KC6ZOI & Bob KK6LT

Ten meter net, CW and Phone, every Wednesday  
7 P.M. for CW at 28.140  
8 P.M. for SSB at 28.445

This is a local net, the cw part run by KF6ZXO, and the SSB with various net control ops.. Have fun checking in on one or both modes.

Joe, WA6FFJ, is our net control operator for the W6TO nets.

### **The monthly attendance prize!**

The attendance prize in May was won by AA6IZ, Rudy, who was not present. Must be present to win. Next drawing will be \$20.



## **Fresno Amateur Radio Club**

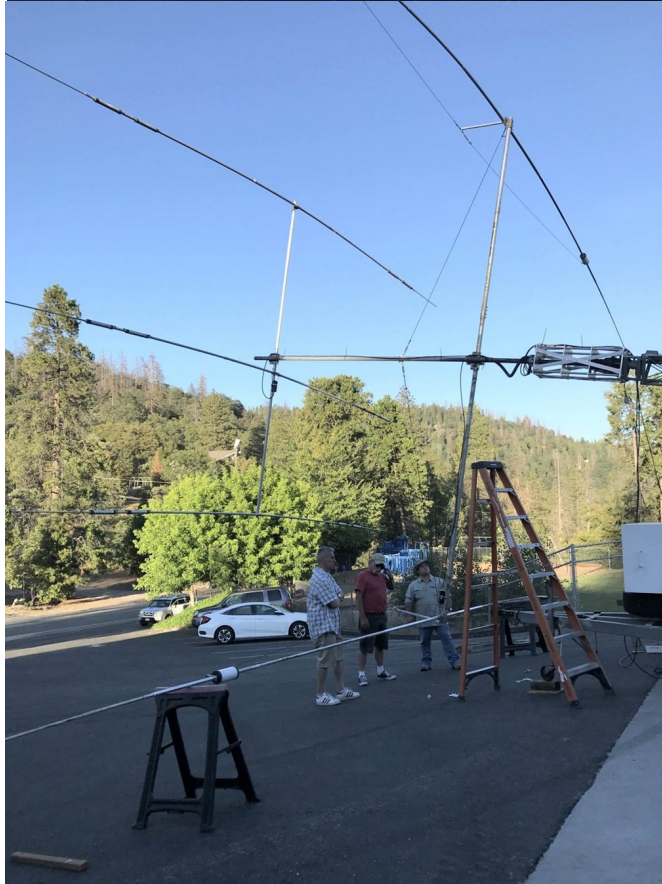
There are several folks that were saddened by the cancelling of the Fresno Amateur Radio Club field Day this year in Clovis. But with the temperatures predicted to be well up in the 100s, nobody was excited about all the work necessary to setup the event and then have few people show up, just to sweat. Perhaps FARC will rethink the plan for next year, hoping the heat may not be a factor.

But with all the concern about a field day site, the Clovis Amateur Radio Pioneers planned on having their Field Day Event at the Pine Ridge School, at an elevation of 4500 feet (yes, right where FARC used to have theirs several years ago). That was probably a good decision because the temperatures at that location proved to be about 12 degrees cooler than on the valley floor in Clovis. But the last minute cancelling the FARC event, also meant that the reserved portable tower trailer now became available for use by the CARP club. So at the last minute the trailer was towed up the hill to the Pine Ridge School and setup for the CARP Field Day event.

Here are a few pictures of the trailer loading and the site setup.

Note the large yagi antennas, mostly disassembled and strapped to the sides of the tower for travelling support.

After several different position tries, the tower trailer was finally positioned and leveled at the one and only place at Pine Ridge that it would fit. Even at that we had to rotate the antennas so they could be elevated past the school flag poles, but it worked. The tower was equipped with 2 yagi antennas. The top antenna was a Crushcraft A3 (for 12/15/20 meters) and the bottom antenna was an M2 modified Force12 40 meter yagi (loaned from the N6MTS home station).



# **THE DX CORNER**

**By Charles McConnell W6DPD**

**July 2018**

"DX is the one you want but you don't have. That is the way it has always been, that is the way it will always be."

Of the most recent DXpeditions, "If you worked it, it was the best DXpedition ever. If you missed it, it was probably not so good." "And so it goes."

All things are relative, some more than others. Thanks Hugh Cassidy, WA6AUD SK.

If you want help with DX, you can contact the local members of the Central California DX Club for some assistance. Charles W6DPD 431-2038, or Perry K6XJ 299-2802, can give you advice. The big thing about finding DX is to tune the bands.

The DX Breakfast is every Saturday at Jeb's Blueberry Hill Café, 3851 N. Blackstone Ave in Fresno. This group gathers about 06:30 AM. All are welcome.

Check out [www.spaceweather.com](http://www.spaceweather.com) and [www.solarham.net](http://www.solarham.net) for information on the solar cycle. The higher the solar flux and the lower the A and K Indices, the better the band conditions. As the solar cycle heads toward the minimum by the end of the decade, working DX becomes more of a challenge. The high bands become less useful until the solar cycle heads toward the maximum, some years from now. There were over 100 sunspot free days in 2017

The address of the Sixth District QSL Bureau is P. O. Box 970, Fairfax CA 94978-0970. You can send up to 10 address labels and \$0.80 for each envelope to the address above. They will put 1 unit of First Class postage on the envelope. You can contribute \$10 or \$20 online using Paypal. If you work DX, you should have envelopes at the bureau so you can get your cards. You may be able to check your status at the bureau at <http://www.qslbureau.org/>

The ARRL Outgoing QSL Service has raised the rates, effective November 1, 2016, for sending ARRL members QSL cards to foreign countries. The new rate is \$1.15 per ounce, about 10 cards. There is now a \$7.00 transaction fee for each submission. Sending one ounce of cards (about 10) will now cost \$8.15. Ten ounces of cards would cost \$11.50 plus \$7.00.

U.S. Postage has increased on January 21, 2018. Overseas postage is still \$1.15 per ounce. Domestic postage is now \$0.50 for 1 ounce. Additional ounce for domestic mail is still \$0.21. Postcards are now \$0.35.

If you don't get a DX Bulletin and you belong to ARRL, you should register on the members only web page and check the box for the ARRL DX Bulletin. This one is emailed each Thursday. Or you can go to the ARRL web page in the News/ Bulletin section and view the bulletins there.

You can also read the OPDX Bulletin or the 425 DX Bulletin on the web. Search OPDX Bulletin or 425 DX Bulletin to get the URL. You can subscribe to the Daily DX, or Weekly DX. These bulletins will keep you informed of DX operations and QSL information.

## **Fresno Amateur Radio Club**

Continued from the last page

The King of Swaziland changed the name to Kingdom of Eswatini.

The following operations are scheduled:

Bouvet **3Y0I** is scheduled again. Date is not known at this time.

Djibouti **J28PJ** for 3 to 5 years

Ascension Island **ZD8D** maybe an October 2011 start

Ascension Island **ZD8AC** now for 2 years

Senegal **6W1SU** now for 2 to 3 years

Gabon **TR8CA** September 15 for 4 years

Rwanda **9X0TA** August 5, 2017 for 3 years

Rwanda **9X9PJ** now for 2 years

Macquarie Island **VK0AI** soon through March 2019

Grenada **J3/G4VJG** June 14 to June 28, 2018

Franz Joseph Land **RI1FJL** soon until July 2018

Azerbaijan **4K6/DL7ZM** July 1 to July 10, 2018

Greenland **OX3LX** July 1 to July 14, 2018

Franz Joseph Land **R1FJ?** September 1 to July-August 2018

Svalbard **JW4JSA** now to June 1, 2018

Baker Howland **KH1** June 27, 2018 to July 7, 2018

Botswana **A25A** June 13 to June 20, 2018

Solomon Islands **H44XG** June 21 to June 27, 2018

Kyrgyzstan **EX0PL** September 1 to September 10, 2018

Rwanda **9X0T** September 26 to October 10, 2018

Kingdom of Eswatini **3DA0A0?** September 15 to September 30m 2018

Niue **E6Y** October 6 to October 16, 2018

Trinidad **ZZ0T** sometime in 2018

Christmas Island **VK9X** October 16 to October 30, 2018

Ducie Island **VP6D** October 19 to November 3, 2018

Guyana **8R1A** November 2018 for 2 weeks

Niue **E6ET** March 19 to April 2, 2019

Conway Reef **3D2/C** and Central Kirabati **T31** are destinations for 3X9DX some time in 2018.

These are postponed at the request of the Kirabati Government. The team wants to do both with one trip.

Watch the DX Bulletins for up to date information. As the time for the operation is at hand, watch the DX Summit ([www.newdxsummit.fi](http://www.newdxsummit.fi)) for listings.

There are a number of state QSO parties each year. Check the contest corral in QST or the ARRL web page. State QSO parties are a good place to collect states for your Worked All States award. ARRL Log Book of the World now supports the Worked All States Award and the WPX Award. WAZ will soon be supported by LoTW.

Good luck, tune the dial, and listen.

[Don Miller, W9WNV in Helsinki 13.12.2016 - YouTube](#)

<http://www.businessinsider.com/solar-storms-could-damage-electronics-2018-6?ref=yfp>

This is a pretty good article about Solar Storms... Marc Goldman WB6DCE

Information on the Baker Is. DXpedition:

<http://baker2018.net/pages/plan.html>



Charles, W6DPD

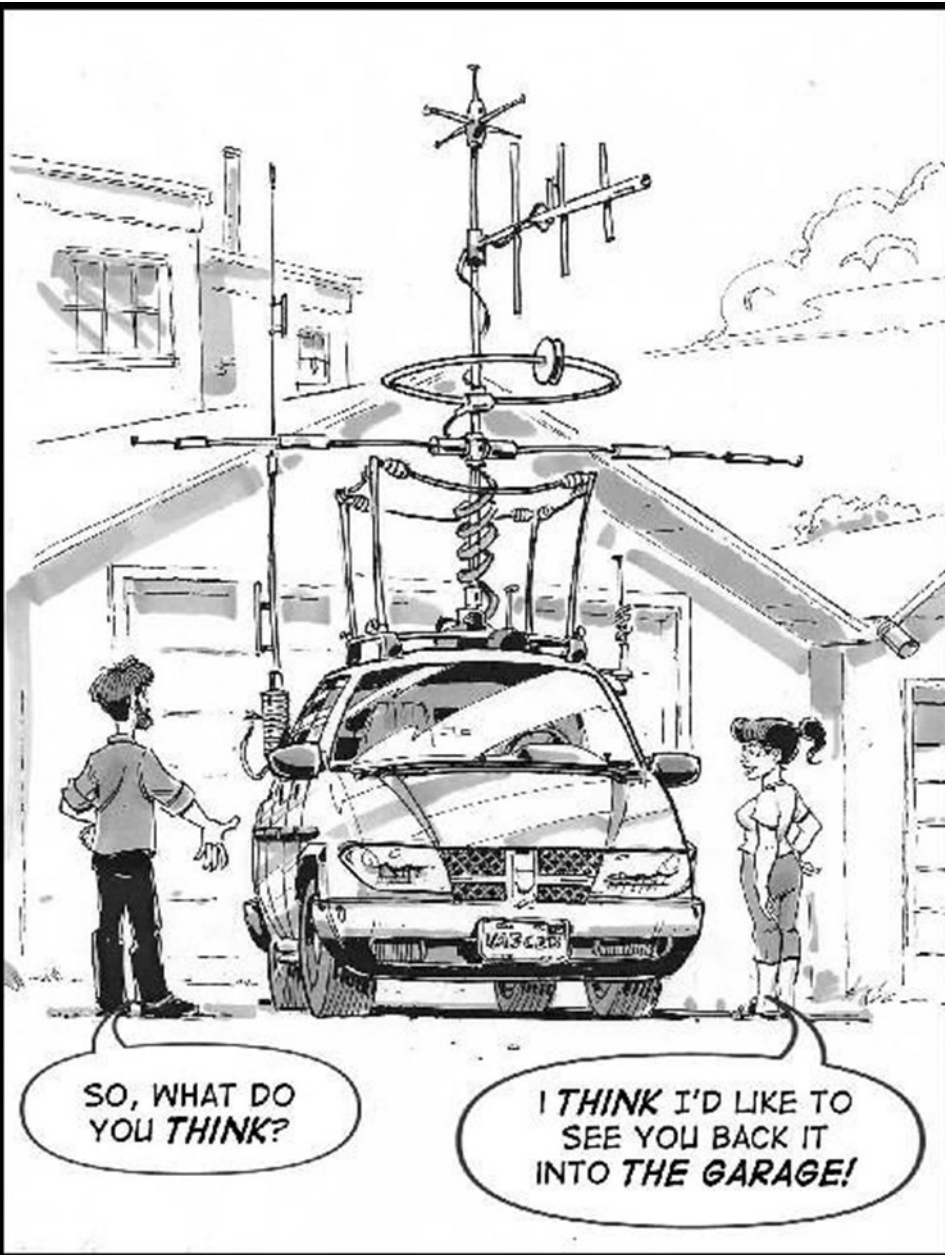
**FRESNO COUNTY EMCOMM**

AMATEUR RADIO  
EMERGENCY SERVICE

WHEN ALL ELSE FAILS.....AMATEUR RADIO

The schedule for the month of June: 4 Monday Night EmComm Nets, 1 On the Air Exercise and 1 EmComm & Coffee.

The Climb to Kaiser Rides date has been changed from June 30 to July 7 due to the availability of permits from the CHP. All assignments have remained the same as well as the locations of the rest stops. If you are interested in volunteering for the event, Rob is still in need of operators. Please contact him on the CARP Website.



Dan (WL7COO) our SJV Section AEC has created a new net, it was launched Sunday June 10. This net will be held every Sunday evening at 19:00 hrs on the W6BNX repeater system. The local frequencies are 147.03 mhz positive offset and pl tone of 118.3 or 444.700mhz. positive offset and pl tone of 118.3. The purpose of this net is to provide a medium where the ECs of the SJV Section and their served agencies can connect and share information pertaining to training and emergency communications. The Net will be called the "Watch Net"

## A Little Hummer

## Public Service Calendar

### **ANNOUNCEMENT, UPCOMING EMCOMM (CARP) 2018 PUBLIC SERVICE EVENTS**

**July 7, 2018 – Climb to Kaiser Bicycle Ride**

**September 8, 2018 – Tour de Fresno Bicycle Ride**

**October 13, 2018 – Bass Lake Double Century Bicycle Ride**

**If you would like to volunteer to work one or more of these events please go to [k6arp.org](http://k6arp.org) and sign up. You can also email Rob Mavis at ([AE6GE@ae6ge.com](mailto:AE6GE@ae6ge.com)).**

Remember that we use these public service events as training venues. **We recommend that you participate in at least three events a year.** Soon this will be mandatory for you to keep your ability to be deployed during a disaster. Remember that we want to have qualifications and operational levels for our operators. This will help when we are asked to perform mutual aid for other County ARES/RACES Groups. When they ask for help, they want our people qualified.

## **EmComm Website**

We are now posting events and meetings on the calendar as well as posting articles on the home page. Check us out at [fcmcomm.org](http://fcmcomm.org).

## **Net Control Staff Needed**

We are looking for volunteers to take a turn as net control on Monday nights. This is not a difficult task. We will provide the preamble and net roster. This is a great way to enhance your skills running a net for emergency situations. If you are interested, please contact Gary (KI6OYW) at 559-269-1340 or email [g\\_greenberg@att.net](mailto:g_greenberg@att.net)

## **Our Calendar**

Don't forget the **Monday Night EmComm Net** at 19:30 hr. on the 147.15 MHz PI 141.3. We have some good information and camaraderie. On the third Friday of the month there is the **EmComm & Coffee** at YFC on Cedar south of Ashlan in Granite Park at 07:00hr. And last but not least the EmComm Meetings are held on the Fourth Thursday of month

Best of 73's GLEN CAINE (N6HEW) Fresno County ARES EC/ RACES Officer  
559-999-7590 [N6HEW2@gmail.com](mailto:N6HEW2@gmail.com)

-----

Doug Millar wrote:

Basically ft8 and digital modes take more work on the setup end and are easy to operate and "knob and dial" radios have little setup and the most time is spent directing the operation. Both take the same amount of effort but are inverse. (Please cite me if you use this)

My limited math abilities express it as-

$$Dm(S10t+Ot)=K$$

$$Kd(St+O10t)=K$$

Where Dm= Digital Mode      Kd=Knob and Dial radios      S= Setup

O= Operating      t= Time      K= Total effort

Additionally, t is tau, and d and m should be subscripts.

Revisions welcome----- Doug K6JEY

From: Mel Swanberg [wa6jbd@verizon.net](mailto:wa6jbd@verizon.net) Subject: Re: Digital Mode Explained

For the correct value of K, multiply your result by pi to account for the fact that you will be going around in circles.

I also attempted to add a proof that time is equal to money, but I kept running into divide by zero errors. My 3.8 GHz Pentium 4 desktop has been reduced to a 386 (without co-processor), and it's now under the desk, curled up and sucking it's thumb.

## Fresno Amateur Radio Club

### Our club members active on the air:

Ron, N6MTS, joined with the CARP FD group after the heat wave cancelled the FARC outing. Here is his report:

Well guess what folks. The mystery of the missing FARC generator power cords is now solved. When completely unpacking the tower trailer toolboxes "all the way to the bottom", we discovered both the new 100' yellow cords as well as the older 100' blue cord. They were hidden at the bottom of the tool box "below all the wood blocks". It seems that none of that had been touched since our last FARC FD in 2016. Why they were not packed in the proper place in the generator tool chest is a mystery to me.

We also found a couple of dipole antennas in there too. Those should have been packed in the "still-missing" antenna/rope box. I guess this was a prime example of too many Indians and not enough Chiefs watching over the packing. (Damn, I guess I was must have been the guilty party there).

For what it is worth, even though the CARP group did have a nice cool FD up at Pine Ridge School, they didn't have a big turnout of operators. They had plenty of hands for both setup and teardown, but just few operators in between. Rob reported that they made around 250Qs and a large percentage of then were on 40 meters on the big yagi antenna.

As for future FARC FD storage, I am looking for a new home for some of the FD equipment. It has been established that Ted Miller will be taking the generator home for future storage at his QTH. (Guess what, yes it will include all the cords in the proper tool box too).

I also have 4 complete logging computers that I want to rid myself of. I have updated these computers for the last time, and could better use the space they now occupy in my garage for other things. They are available to anybody who wants them. If there are no takers, then e-waste may be a good destination for them. 73's, Ron, N6MTS

The 2017 June VHF certificates come out just before June 2018, almost a year after. Here are two that came recently, one for WA6OIB, top score for multiop, and one for K6MI, top score for SCV three band. Other club members were the W6TV group, WA6ZBL, limited multiop top score, W6KKO, top FM category, N2NS, NI6G, N9M, and K6AAB, top SJV rover.



## ***Fresno Amateur Radio Club***

### **New antenna mounting and testing at N6MTS**

In this series of pictures, we will show some of the assembly of a 2-element 40-meter yagi originally manufactured by Force 12. The original antenna was a 10.15.20 meter tri-bander model C4SXL, and included an optional EF240S 40-meter add-on. The original tri-band elements were scrapped, leaving only the 40-meter elements left on the boom. The original antenna used linear loading which consisted of a mess of wires everywhere. Mike Staal modified the Force 12 by converting it to coil loading with several adjustments. The end results were outstanding with a measured resonant center frequency of 7.133Mhz, in the SSB portion of the 40-meter band as I requested.

Saturday evening I had a S-6 background noise-level and made contacts with Virginia (100-watts), Louisiana (1Kw), Texas (800watts), Florida (100 watts), and a Sanger mobile (100 watts). Every one of these stations produced a +40 over receive signal, and they all reported my signals were about +20 over (I was running 100 watts). Yes, I was impressed indeed.

Here are some close-ups of the business end of the driven element.



Here is a view of the mast mounted on the tower, with a 6-meter Cubex quad antenna already mounted and positioned "around" the quad for mounting below it. The quad was shorter and had to be mounted first.

Also note the 10-meter Ringo mounted on the top end mostly above the quad. Here is a view of the rotor loop the way I do it. It works like a clock spring.

Here is a view of the mast mounted on the tower, with a 6-meter Cubex quad antenna already mounted and positioned "around" the quad for mounting below it. The quad was shorter and had to be mounted first.



## ***Fresno Amateur Radio Club***

This is white knuckle time as we start tilting up the tower toward vertical.

And this is a look as its all finally fully vertical. The Ringo is a bit hard to see but it's there.

One flick of the switch and up she goes. It all stops at a rotor height of 72', putting the top Ringo at about 85'.



Once testing is complete these antennas will replace my old antennas on my rigid tower seen here in the background. A Hi-Gain TH-6 will join them.



I would like to express my extreme thanks to Mike Stall and Larry Lion for their assistance in making this all possible. I'm really looking forward to getting this all up on my permanent tower by the end of this summer.

If you would like to see these pictures in a larger size, I will be putting the uncut version on Google Drive as soon as I can get them uploaded. If you're interested, please let me know and I'll send you a link to the folder where you can view or download the larger pictures.

N6MTS

## Getting Double Duty from an Off-Grid Power Station:

Many Off-Grid Power Stations we use these days, are based on 48 VDC Solar Chargers and Inverters. Which means they also contain some type of (48) Volt Battery Array. The (48) Volts makes the Wire Size more manageable, that is the Current and Wire Size(s) are a (1/4) of what they would be in a 12 volt System of the same Power.

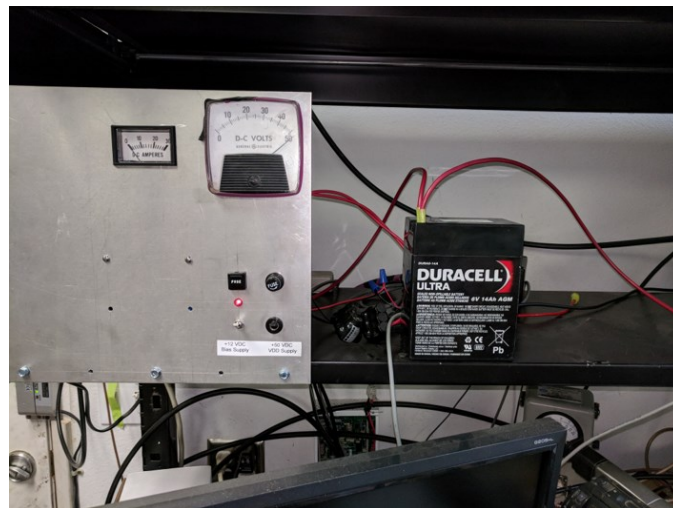
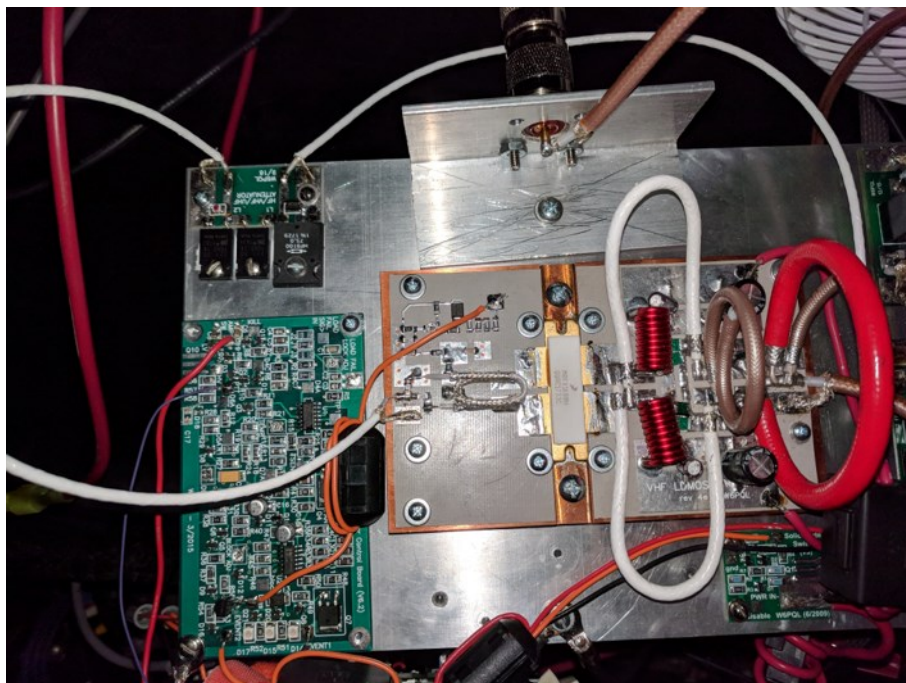
The way we get dual functionality and utility from our 48 Volt (52 Volt Typical) Power Station is by using that same DC Power for our HF, VHF and UHF Solid State Amplifiers.

This provides low Source Impedance smooth *Ripple and Noise Free Power*, even at peak output of (1,500 Watts). These features combine to make this is a great alternative to 120 and 240 Volt based Power Supplies. A collateral benefit of this scheme is that it also keeps us on the Air during a Power Outage.

The VHF amplifier shown in the attached photos functions best at between 55 and 60 Volts.

Therefore in the Example Application a small (but stout) (6) Volt Gel-Cell is inserted in series with the Off-Grid System Power and the Amplifier, providing ~57 VDC Typically. The Power Distribution Setup, including the Series (6) Volt Battery are shown in an attached photo.

John AB6BP



## **Fresno Amateur Radio Club**

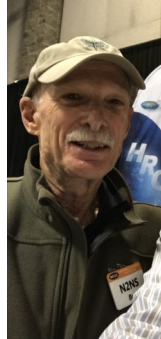
Bob, N2NS, is one of our active club members. Here is a summary of the June contests he has been in.

FD

N2NS Class: 1D HP QTH: SJV

Band	CW	Qs	Ph	Qs	Dig	Qs
160:	1					
80:	10					
40:	15					
20:	65					
15:	28					
10:	10					
6:					1	
Total:	129	0			1	Total Score = 220

Comments: Operated fm home station. Handing out some points to FD operations. Reduced score accounts for zero-pointers/other 1D stations wkd. 73, Bob N2NS



Comments: Very part time. No rx antenna for low bands.

All Asian DX Contest, CW

N2NS Class: SOAB HP

Band	QSOs	Mults
80:	1	1
40:	8	7
20:	30	26
15:	15	10
Total:	54	44
Total Score = 2,420		

ARRL June VHF Contest

N2NS Class: Single Op HP

Band	QSOs	Mults
6:	28	20
Total:	28	20
Total Score = 560		

Comments: 6m only. Mostly FT8. Pretty grim for my part time effort fm DM06. Just local/adjacent grids and (a very few) 1-hop Es Q's. Printed several 2-hop grids, but they all seemed to be working each other in an east coast/midwest feeding frenzy. Made numerous forays down to CW, but could find nobody there, and near endless cq-ing was fruitless... zero CW QSO's. Made a couple local SSB QSO's, but did not spend much time on SSB, as all players seemed to be qrm-ing each other on 50.125 the few times I listened. Final paltry total was 26 FT8 Q's and 2 SSB Q's. Sad to see CW abandoned. Hope the EC crowd had fun.

Stew Perry Topband Challenge - Summer

N2NS Class: Single Op HP QTH: DM06

Total: QSOs = 13 Total Score = 28

Comments: Rx antenna down, so didn't expect much. Didn't get much. On a bit Saturday evening, then agn for my s/r peak Sun AM. NO dx heard, except a couple JA's who were playing in AA CW test, and could not hear me. All Q's were western USA. Nothing beyond 3 points.



Father Son team, Larry, WA6ZBL and Kevin KE6LYN operated the June VHF Contest from Campo Alto Campground on Cerro Noroeste mountain at 8200 feet above sea level in DM-04.

Kevin is shown here working 6 meters. Bands were not too good and it was cold and windy in the evening, but still an enjoyable camping experience.

73 Larry WA6ZBL

## 2018 Event Dates / July 1 (9AM EST) to July 7 (Midnight EST)

(July 1, 2018-1300 UTC to July 7, 2018-0400 UTC)

The 13 Colonies Special Event en-listed one

### 4th Of July Week - The Original 13 Colonies Special Event

MAY GOD BLESS AMERICA

## 10th Anniversary-2018

CELEBRATING 10 YEARS HONORING  
THE 13 ORIGINAL COLONIES, FREEDOM  
AND OUR MILITARY / VETERANS.



2009

**K2A**  
New York

**K2B**  
Virginia

**K2C**  
Rhode Island

**K2D**  
Connecticut

**K2E**  
Delaware

**K2F**  
Maryland

**K2G**  
Georgia



2010

**K2H**  
Massachusetts

**K2I**  
New Jersey

**K2J**  
North Carolina

**K2K**  
New Hampshire

**K2L**  
South Carolina

**K2M**  
Pennsylvania



2011



2012



2013



2014



2015



2016



2017

### IN RECOGNITION FOR PARTICIPATING IN THIS 4TH OF JULY WEEK - 13 COLONIES SPECIAL EVENT, THIS CERTIFICATE IS AWARDED TO MR: KU2US

# SAMPLE

INDEPENDENCE WEEK JULY 1-7, 2018

**13**



**CONTACTS**  
ALL 13 COLONY STATES  
"CLEAN SWEEP"



**WM3PEN**



**73'**



KEN VILLONE: KU2US-EVENT MGR. *Ken Villone*

dedicated SSB/CW QRP operator for each state for the 2014 event and beyond. No special station requirements, except the operator must be a General class or higher. We want to give the low power QRP station a chance to get a 13 Colony States "Clean Sweep" endorsement on your certificate. We know the thrill of a QRP station breaking a pile up, but with 200+ QRO/ and higher stations in a pile up, well, most of the times +/-5 watts just wont work.

*YOU DO NOT NEED ALL 13 COLONIES TO GET THE CERTIFICATE*

*YOU DO NOT NEED TO GET THE 2 BONUS STATIONS FOR A CLEAN SWEEP*

If you work a colony station, you are encouraged to spot it for others. We suggest [DX Summit](#).

## Fresno Amateur Radio Club

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93721



500 E. 19TH ST.  
BAKERSFIELD  
93305

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FAX (559) 264-6557

News flash– Arbuckle is closing sometime in July. Yet another electronics part store is leaving US.

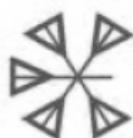


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Talk to Ron, N6MTS, about the yearly fee!

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FARC Name tags are \$15.00 Payable when you order your tag.

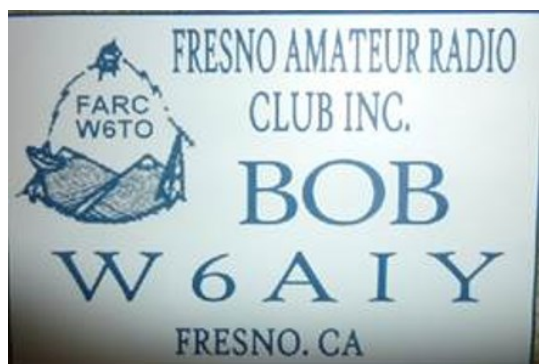
Please list your Name and call as you want it to appear on the name tag and also check if you want a stick pin or mag mount.

Make check payable to FARC Inc.

The price for our FARC name badges has gown up to \$15.00 each. As we are only getting orders for one or two per month, if that, so we will only take orders in the months of February and March of each year. We will no longer take mail in orders so if you want a name badge you need to come to one of those meeting. Bob W6AIY

Name badge orders will will only be accepted at the February or March meetings.

Name \_\_\_\_\_ Call \_\_\_\_\_ Stick pin\_\_ or Mag Mount\_\_ Amount \$ \_\_\_\_\_



### **Fresno Amateur Radio Club**

F.A.R.C. DUES ARE \$20 PER YEAR FOR FULL MEMBERSHIP. Additional family members in the same household are \$5.00 each per year. New hams are free for the first year. Make checks payable to F.A.R.C. and

send to:

P.O. Box 5912, Fresno, CA 93755-5912.

### **Fresno Amateur Radio Club Activities and Events**

**Meetings on the  
2nd Friday of the  
month**

**FD on the 4th full  
weekend in June**

**Banquet Dinner  
in December**

**Club Picnic in  
summer**

**Annual swap  
meet in Novem-  
ber**

### **Fresno Amateur Radio Club - Membership Application**

Name \_\_\_\_\_ Date \_\_\_\_\_  
Address \_\_\_\_\_ Call Sign \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_  
Home Phone \_\_\_\_\_ Cell Phone \_\_\_\_\_  
Occupation \_\_\_\_\_ Birthdate \_\_\_\_\_  
License Class \_\_\_\_\_ Year 1<sup>st</sup> Licensed \_\_\_\_\_  
ARRL Member? \_\_\_\_\_  
E-mail address \_\_\_\_\_ Anniversary Date \_\_\_\_\_

#### **Additional Family Member in same household:**

Spouse Name \_\_\_\_\_ Call Sign \_\_\_\_\_  
Son/Daughter Name \_\_\_\_\_ Call Sign \_\_\_\_\_



FRESNO AMATEUR RADIO CLUB, INC.  
P.O. Box 5912  
Fresno, CA 93755-5912

Send To: