

AEAARC

AEA Amateur Radio Club November Meeting



HAM Show and Tell

AEA ARC Members

Thursday November 30, 2023

11:30 AM to 12:30 PM Pacific

Teams and A3/1607A

Email Kirk Crawford for invite

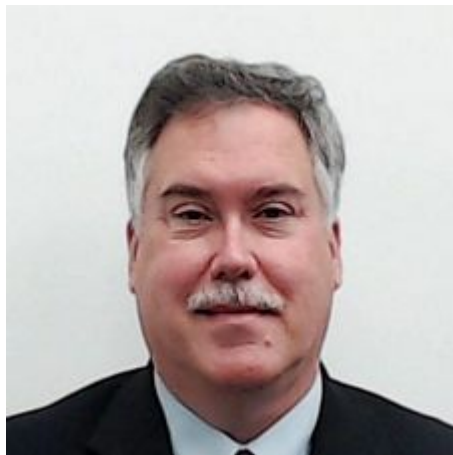
See [My Aerospace](#)
announcement for more info



AEA Amateur Radio Club Officers



President
Kirk
Crawford
KK6KC



Vice President
Thomas Fagan
K7DF



Secretary
Bob Lanahan
KK6WYW



Treasurer
Daniel Plaster
KN6OJH



Agenda

- Dan Plaster
- Thomas Fagan - K7DF
- Doug McNulty - KM4GC
- Jim Clark - KW4JW
- Kirk Crawford - KK6KC
- Upcoming Meetings
- HAM Question Time

K7DF 2023 Summary

Tom Fagan

K7DF updates

- Mostly on HF: CW, Phone, RTTY, FT4 and FT8
- AEA ARC vice president
- ARRL Assistant Section Manager Arizona
 - Technical presentations
 - Grounding, lightning, stealth antennas, RFI, etc.
 - Radio Frequency Interference investigations.
 - Solar systems, Switching power supplies and cheap antenna tuners causing most of the problems.
- IEEE EMC HAMS, monthly meetings, yearly lunch
- Quarter Century Wireless Association, Chapter 16, Arizona
 - President
- El Tour De Tucson Bike Event

Quarter Century Wireless Association

- For hams that were first licensed 25 years ago.
- Chapter 16, Arizona since 1962
- Honoring Barry Goldwater K7UGA
 - Air Force General/US Senator (Arizona)
- Tom Fagan K7DF President



El Tour De Tucson Bike Event

- November 18, 2023
- Since 1983, 40th year.
- 102-mile bike event.
- Over 9000 cyclists participated.
- K7DF at Check point 3
 - 102-mile and 63-mile routes
 - One of the highest altitudes
 - US Army provided water, bathrooms, bananas and oranges
 - 10 cyclists stopped at check point 3 due injury or just worn out.
- Communications support





El Tour de Tucson
Check Point 3
Sponsored by
the US Army



KM4GC Ham Radio Activities During 2023

Doug McNulty

30 November 2023

Activities

- Participated in Straight Key Century Club (SKCC) Straight Key Month (see slides later in briefing)
 - Conducted during January (US) and September (Canada) annually
 - Contacted 18/19 call sign areas (US) – could not get Africa
 - SKCC conducts several different types of events that cater to beginner CW operators throughout the year:
 - Slow Speed Saunters, Straight Key Month (conducted during January and have a cool QSL card each year), and more
 - Encourage slow speeds – ask experienced operators to match speed to newbies
 - SKCC promotes the use of manually operated CW keyers (back to the basics of the origin of radio communications)
 - They have several “tag-up” frequencies to enable finding club members
 - [SKCC - Straight Key Century Club \(skccgroup.com\)](http://skccgroup.com)
- Parks on the Air (POTA) (pictures later in briefing)
 - Activated 9 POTA sites

Activities

- Participated in Loudoun Amateur Radio Group (LARG) (our local ham club) Support for Bike Riding Events:
Alzheimer's Fund Raiser
Gravel Grinder Competitive Bike Race



Straight Key Month – Band/Call Area Matrix



Log search results for KM4GC

Tip: Mouse over the band slots to see operators worked

K3Y Station 160m 80m 40m 30m 20m 17m 15m 12m 10m 6m

K3Y/0	-	-	-	X	X	X	X	-	X	-
K3Y/1	-	-	X	X	X	-	-	-	-	-
K3Y/2	-	-	-	X	X	-	X	-	X	
K3Y/3	-	-	X	X	X	-	X	-	X	
K3Y/4	-	X	X	X	X	-	X	-	-	-
K3Y/5	-	-	X	-	X	X	X	-	X	
K3Y/6	-	-	-	-	X	X	X	-	X	
K3Y/7	-	-	-	-	X	X	X	-	X	
K3Y/8	-	-	X	-	X	-	X	-	-	-
K3Y/9	-	-	X	X	X	X	-	-	-	-
K3Y/KH6	-	-	X	-	X	-	X	-	X	
K3Y/KL7		-	-	-	-	-	X	-	X	-
K3Y/KP4		-	-	-	X	-	X	-	X	-
K3Y-AF			-	-	-	-	-	-	-	
K3Y-AS		-	-	-	-	-	X	-	X	
K3Y-EU	-	-	-	X	-	X	X	-	X	-
K3Y-NA	-	-	X	X	X	-	X	-	X	
K3Y-OC	-	-	-	-	X	-	-	-	-	-
K3Y-SA		-	-	-	X	-	-	-	-	

KM4GC has worked K3Y on 64 out of a possible 174 band slots.

Straight Key Month QSL Card for 2023



The *Straight Key Century Club* was founded by Tom Peterson (KC9ECI) on January 2nd, 2006. Tom began signing up members; Melinda Alsobrook (KI4CIA) launched the information campaign; Gordon Benjamin (N6WK) secured the domain name and website. Now, upon its *17th Anniversary & Annual Straight Key Month* event, the membership roster stands at 26,943. SKCC continues to inspire CW operators worldwide and remains dedicated to its founders' goals: preserving the skills and traditions of hand-keyed *Morse Code* and *Radio Telegraphy*.

For more information please visit our website at www.skccgroup.com

SKCC SKM 2023 - 17th Anniv.

QSL: KM4GC MODE: CW 2-WAY

Station	Date	UTC	Band	RST	Operator
K3Y/0	1/14	1722	15m	599	W4XJ MO
K3Y/1	1/14	1639	20m	559	K1EDG ME
K3Y/2	1/19	1851	15m	559	K2FW NJ
K3Y/3	1/14	1940	40m	579	NQ3K PA
K3Y/4	1/14	1603	30m	599	w1DV NC
K3Y/5	1/16	1502	10m	579	AA5UZ LA
K3Y/6	1/14	2257	17m	559	N0CW CA
K3Y/7	1/14	1712	15m	559	AK6A OR
K3Y/8	1/14	1617	40m	599	N8XI MI
K3Y/9	1/14	1913	20m	579	NJ0U IN

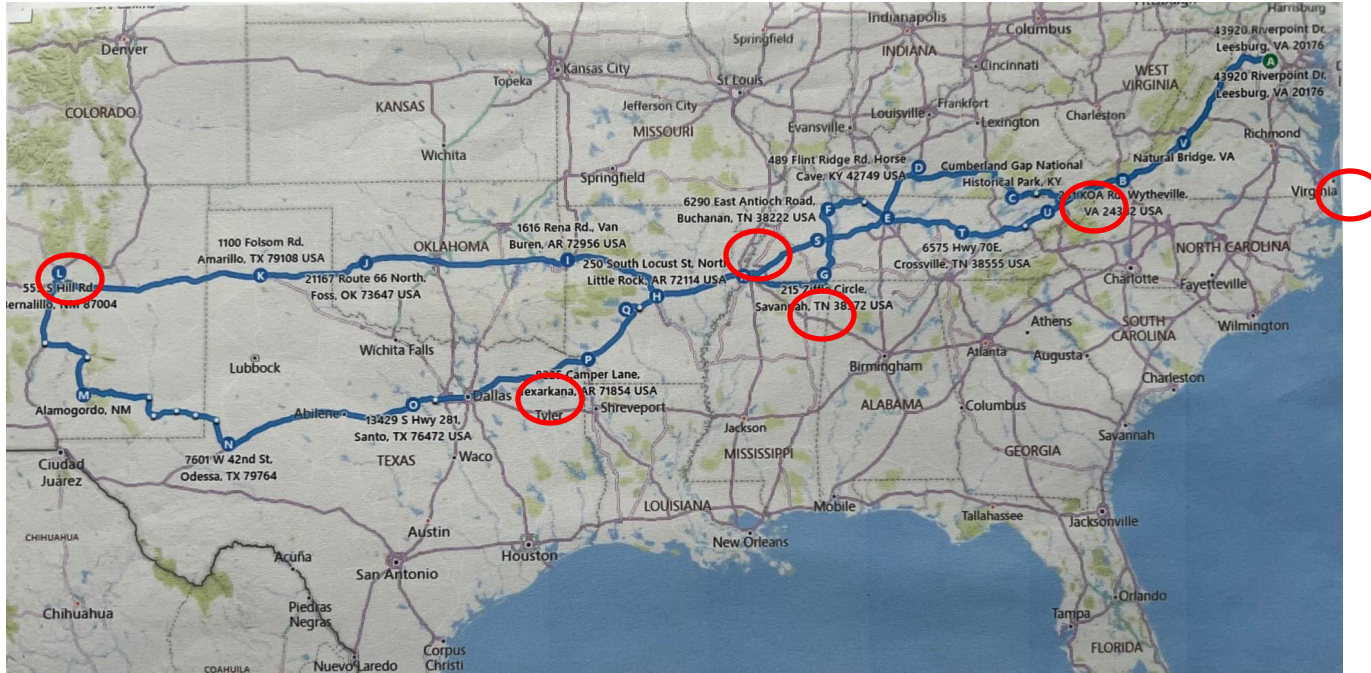


SKCC SKM 2023 - 17th Anniv.

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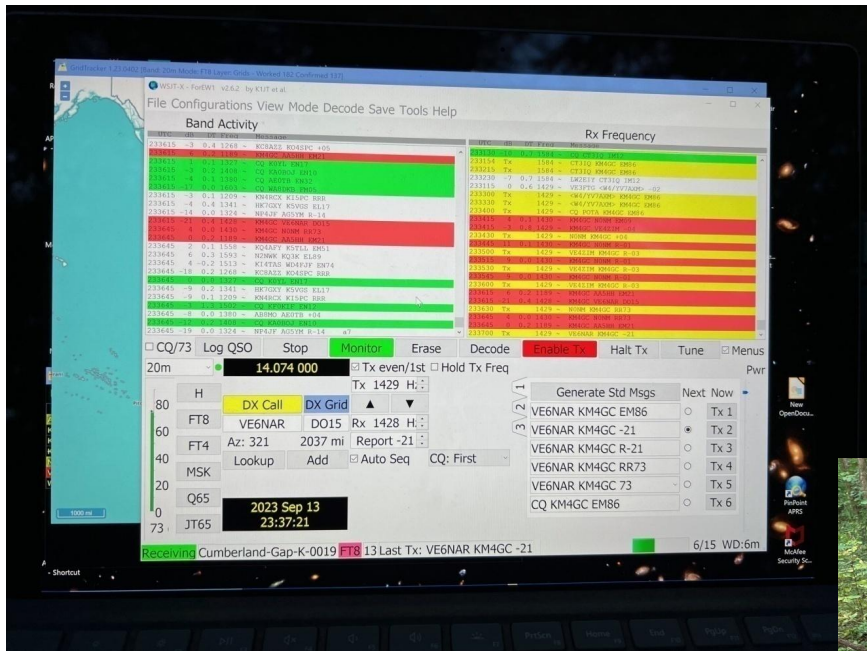
Station	Date	UTC	Band	RST	Operator
K3Y/KH6	1/25	0250	20m	559	KH6ZM HI
K3Y/KL7	1/14	2000	10m	549	N1TX AK
K3Y/KP4	1/17	2350	20m	579	KP3N PR
K3Y-AS	1/17	2320	15m	569	JR2IUB
K3Y-EU	1/16	1622	15m	579	CT7AUP
K3Y-NA	1/18	2109	30m	599	VE3KZ ON
K3Y-OC	1/19	2154	20m	559	VK2GR
K3Y-SA	1/26	2317	20m	355	PY2BN
-	-	-	-	-	-
-	-	-	-	-	-

Trip to Albuquerque Balloon Festival and POTA Sites Activated along the way

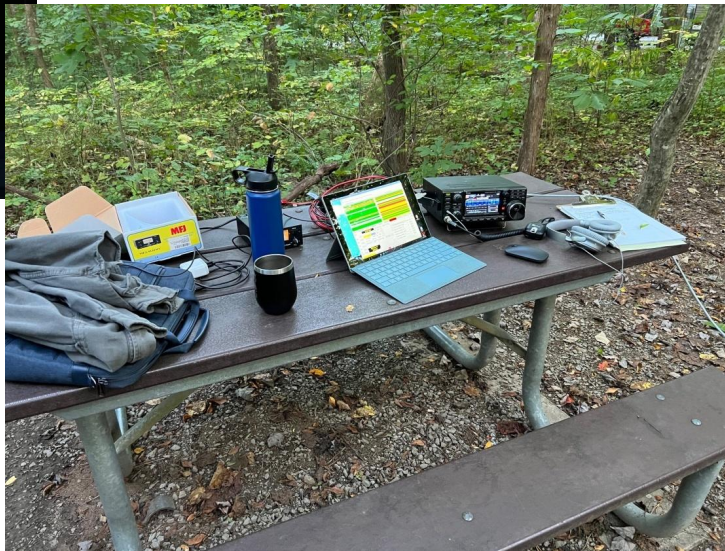


Parks on the Air Activations

Park	First QSO	Last QSO	Log QSOs
K-7441 Gulpha Gorge National Recreation Area (US-AR)	2023-10-27 20:51	2023-10-27 22:59	107
K-0038 Hot Springs National Park (US-AR)	2023-10-27 20:51	2023-10-27 22:59	107
K-0975 Waco Mammoth National Monument (US-TX)	2023-10-22 19:39	2023-10-22 21:45	75
K-0955 Petroglyph National Monument (US-NM)	2023-10-15 21:57	2023-10-15 22:21	11
K-9757 Butterfield Overland National Historic Trail (US-AR)	2023-09-28 20:24	2023-09-28 21:52	84
K-0822 Fort Smith National Historic Site (US-AR)	2023-09-28 20:24	2023-09-28 21:52	84
K-3790 Fort Heiman National Battlefield (US-KY)	2023-09-21 21:57	2023-09-21 23:17	19
K-0019 Cumberland Gap National Historical Park (US-VA)	2023-09-13 22:18	2023-09-13 23:45	27
K-0705 Monocacy National Battlefield (US-MD)	2023-02-11 15:43	2023-02-11 19:31	84

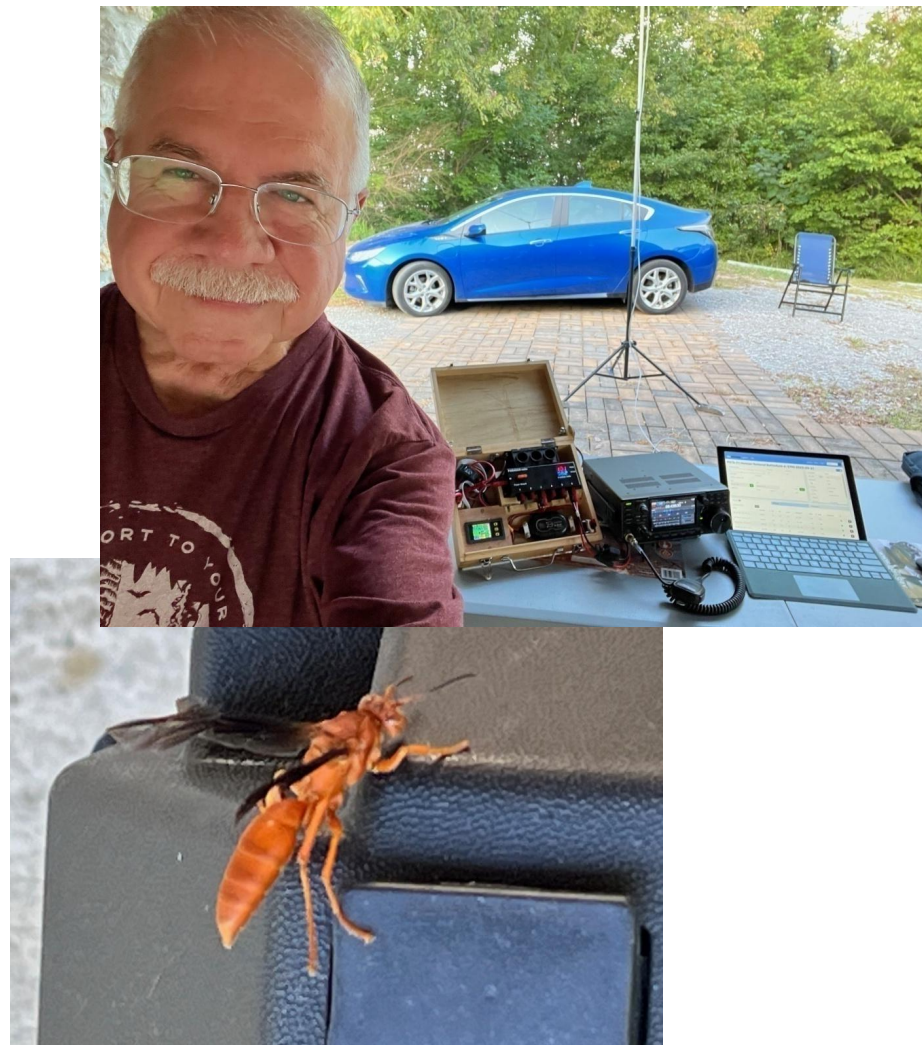


Digital Ops at Cumberland Gap National Historic Site, VA



Fort Heiman National Battlefield, KY

--- and Second Operator



Fort Smith and Butterfield Overland National Historic Trail, AR



Petroglyph National Monument, NM





Waco Mammoth
National Monument,
TX
(Columbian
Mammoths)



Hot Springs National Park and Gulpha Gorge National Recreation Area, AR



Select Pictures from Albuquerque Balloon Festival (2023)



Select Pictures from Albuquerque Balloon Festival (2023)



Select Pictures from Albuquerque Balloon Festival (2023)



Select Pictures from Albuquerque Balloon Festival (2023)



Select Pictures from Albuquerque Balloon Festival (2023)



73



W6AGO Show and Tell 2023

Dr. Jim Clark

More vintage RF equipment

- From (maternal) grandpa, from his time in the Signal Corps.
- (No progress on paternal grandpa's vintage RF equipment, but I had his typewriter restored earlier this year.)



ADS-B receiver

- Got an RTL-SDR + 1090 MHz preamp
- Quite a lot of traffic around DC
 - Haven't spotted Air Force One but I only run it sporadically...for now
 - Eventual goal: run it on my home server (gotta restore my home server...) as a 'screen saver', ping interesting/unusual activity.
 - Install better antenna outdoors, higher up?



Astronomy

- Just some visual astronomy so far, but one of my mounts is fast enough to track a satellite, and there are programs for decoding weather sat transmissions with an SDR. Something else to add to the docket...



Composite of annular solar eclipse, Albuquerque, NM



Kirk Crawford K6KC

2023 Year In Review



QSO Activity

- Much less digital this year
- Raspberry Pi Ham Computer failed
- POTA activations during the Spring and Summer
- Portable activation on a campout
- Two business trips
- Some construction

POTA on Spring Break



- Successful activation of William Randolph Hearst Park K-6448
- Partial of Morro Bay State Park K-1175

Portable on Campout



- Got QSOs on a church Men's Campout in April

Business Trip Activity 1



- Maui
- Buddipole hanging L

Business Trip Activity 2



- Vertical with counterpoise on balcony
- Also tried inverted V
- S9 noise

Summer Time Activations



- Dipole setup at Airbnb on Seattle trip. (Sorry no picture) Was too low.
- Activated Good Earth State park K-2919 on 8/1 in SD (left)
- Partially activated Spirit Mound Historic State Park K-5645 in SD (no pic)

Construction



- Built 9:1 Balun from a kit after return from Summer trips
- Also got DMR HT working and communicated with San Diego with it
- Working on setting up DMR hotspot
- Replacing Raspberry Pi with a linux laptop for portable ham station.

Sukkot on the Air



- Activated my friend's Sukkot in his backyard
- Jewish Festival of Booths
- Downtown LA Very poor conditions but got QSO to Arizona!

San Diego Hamfest

- Attended on October 7
- Lectures
- Transmitter Hunt





Judy Kerner KK6GCB

Judy shared by voice that she has participated with the El Segundo Amateur Radio Club over the year and she recommends we all also participate in their nets on Monday evenings at 7:15 PM on the WB6VMV repeater. This is the same repeater we use for the our morning nets. We can also consider joining the El Segundo club if we live in the area.



Upcoming Meetings

- December: Holiday Party
 - 12/14 (Thursday 11:30 AM- 12:30 PM) in 2 weeks!
 - Off campus people meet at VC2 at 11:15 AM and someone will escort you in
 - A3 2226 MMC
 - Catered by Aerospace Cafeteria
 - Prime Rib
 - Let Kirk know if you need a special plate
 - Year in review
 - Elections
 - Raffle
 - Paid Membership required



Question Time

Got a HAM Radio Question?