Saturday, January 17, 2026
8:00 AM to 12:00 Noon

Thunderbird Amateur Radio Club is a 501(c)(3) non-profit organization.
This event is ARRL Sanctioned and ARCA Co-Sponsored.

This Event will occur Cold, Rain, Wind or Shine.

Come prepared

Haven Church
5902 W. Cactus Road
Glendale, AZ 85304

General Admission Tickets

$5 per person
One door prize ticket with
each general admission

Tailgater Admissions
$10 per parking spot used or Blocked
Vendors get 2 General Admission tickets
Door Prize Entries not included

Raffle Ticket Block Discounts
$5 for 1 Raffle Tickets
$20 for 5 Raffle Tickets
$40 for 12 Raffle Tickets
$50 for 17 Raffle Tickets
$150 for 65 Raffle Tickets
$200 for 100 Raffle Tickets

Additional Door Prize Tickets

Additional Door Prize tickets are $2

Commercial Vendor Information

Commercial Vendors may setup on
Friday January 16th after 5:00 PM and/or Saturday, January 17th after 6:00 AM
Vendors must supply their own tables

Club Information

Club tables in the Club Area must be reserved in advance and are at no charge.
Club tables may only be used to offer information about the club and may only sell club based (logo) merchandise (No radios or equipment)
Club Tables get a total of 2 admission tickets which do not include Door Prize Tickets.
General Admission fee will be charged for more than 2 people in the vehicle.
Clubs must provide their own tables

Clubs may setup on Saturday after 7:00 AM

www.tbirdfest.org

Thunderbird Hamfest 2026 Raffle Prizes

Raffle Ticket Block Discounts

$5 for 1 Raffle Tickets	$50 for 17 Raffle Tickets
$20 for 5 Raffle Tickets	$150 for 65 Raffle Tickets
$40 for 12 Raffle Tickets	$200 for 100 Raffle Tickets

Grand Prize 1

Yaesu FT-710 AESS

HF/50MHz 100W SDR Amateur Radio Transceiver

The new FT-710 AESS is packaged in a sleek new compact design while providing 100W output. It also utilizes the advanced digital RF technology introduced in the FTDX101 and FTDX10 series.

Grand Prize 2

Yaesu FTM-510DR

For Intuitive and Effortless Operation, the PMG and MAG Functions of the FTM-510DRASP have been improved.

PMG (Primary Memory Group):

- Up to 5 VFO or Memory Channel frequencies can be assigned to the PMG (Primary Memory Group) and monitored.
- The reception status of the PMG channels is displayed with an orange/gray-colored bar graph in the PMG screen.
- When a signal disappears, the bar graph color changes from orange to gray in real time.

Grand Prize 3

Yaesu FT-5DR

Even in a compact body (W2.44” x D1.34” x H3.94”), the FT5DR provides reliable 5W RF power output and achieves loud 1W audio power that has been tuned for quality audio. Real Dual Band Operations (V+V, U+U, V+U, U+V) are available with two independent receivers. Large individual LED indicators for A band and B band present the status and communication modes (C4FM or Analog) of each band instantly. The new FT5DR supports simultaneous C4FM digital (C4FM/C4FM standby).

With rubber protection on the corner of the main body, the FT5DR has rugged and shock-resistant construction. The waterproof rating is IPX7. The comfortable size and form of the full-flat back body provides excellent grasp for the radio operator.

HAM RADIO Operator RV'ers/Tenters...

QUARTZFEST* 2026

What? Quartzfest© is an annual HAM Radio RV and tenters Boondocking event which is held in late January every year with dates coinciding with the Quartzsite Arizona "RV Show".

When? January 18th thru 24th of 2026 (make sure you add these important dates to your 2026 calendar)

Where? 7 miles south of Quartzsite Arizona - on US 95 at La Paz Valley Road

Who Can Attend? ANYONE! If you don't have your Amateur Radio Operators License yet, you'll be able to take your Amateur Radio Operators License Exams at Quartzfest©

Cost? $5.00 per person for the entire week

Our Annual Amateur Radio "get together" is called "Quartzfest©" and is open to ALL to attend. Quartzfest© is not a club, no officers and no dues..and only costs $5.00 per person for the entire week of fun!! During the week of Quartzfest©, RV's are everywhere across the desert, as far as you can see..every make and model you can imagine!

There are hundreds of groups that meet in Quartzsite every year in different parts of the desert who share like interests. Our group, Quartzfest©, started out in 1997 as just a few HAM RV'ers getting together, camping in their RV's in the middle of the desert..no power, no running water. Solar Panels and Generators are in use everywhere (Porta-Potties are available for our tent campers and day visitors).

Quartzfest© is similar to a Hamfest but lasts an entire week and is packed full of scheduled Seminars and Activities (no vendors are allowed on BLM land though). Talks range in topics from Genealogy and Crafts for Non-HAM's to Solar Power and Battery Information, Technical information for the seasoned HAM, and introductory information for the new HAM. Also included in the week's activities are Amateur Radio License Testing, Antenna Walkabout (touring other HAM's RV Antenna installations), Solar Walkabout, 4x4 Off Road Trip in the Desert, Prospecting, Campfires (some with musical entertainment), Pot Luck dinner, Hootenanny and lot's more!

We Camp on BLM (Bureau of Land Management) land which is FREE, but you can only camp there for 14 days at a time.

For more information, drop a note to our Quartzfest Organizer*

Kris - KR1SS

kristynweed@gmail.com

or visit us on the web

quartzfest.org

2026 Southwestern Division Convention

Yuma Hamfest

Yuma, Arizona

Feb. 27 & 28, 2026

Yuma County Fairgrounds
2520 East 32nd Street, Yuma, Arizona

www.yumahamfest.org

Check the Website for Additional Information

Gates Open for Camping Thursday, 2 pm Vendor Setup Friday, 7 am - Noon	Event Hours Friday, Noon - 5 pm Saturday, 8 am - 5 pm	Hamfest Dinner & Grand Prize Drawing Saturday Night 6:00 - 9:00 pm

Vendors & Exhibitors
Full Seminar Schedule
DXCC Card Checking
Hourly Door Prizes
On-site RV Camping
Hamfest Dinner
ARRL Speakers
Transmitter Hunt
$15.00 Admission

Tailgating (Swap Meet)
License Testing
$15,000+ in Grand Prizes
Emergency Preparedness
Admission Prizes
Hospitality Area
Near Space Balloon Launch
Antenna Clinic & T-hunt

Email Contact: ***info@yumahamfest.org***

SCOTTSDALE SPRINGFEST

SPONSORED BY
THE SCOTTSDALE AMATEUR RADIO CLUB

New Location for 2026

Saturday, March 14th, 2026

Awesome New Location in North Scottsdale at the Highlands Church at 9050 E. Pinnacle Peak Rd. Just ¼ Mile East of Pima Rd.

Website Flyer

- **Open for Vendors at 6am**
- **Open to the Public at 7am**
- **Vendor Admission $20 for 2 spaces.**
- **General Admission $5/person**
- **Grand Prize – Yaesu FT-710 AESS HF Radio**
- **2nd Prize – FTM-510DR C4FM Dual Band Mobile**
- **3rd Prize – FT-70DR**
- **ARCA and ARRL Sanctioned Event**

Get your raffle tickets in ADVANCE of the event.

It is very EASY!

Buy Raffle Tickets

Buyers Use the East Entrance (Green)
Vendors Use West Entrance (Red)

ScottsdaleARC.org

The Arizona Amateur Radio Club and
The Arizona Red Cross Communications Club
present the

Phoenix Spring Hamfest

& Electronics Swap

NEW LOCATION!! (formerly known as DeVry Hamfest)

April 4, 2026

ALHAMBRA High School Parking Lot
3839 W Camelback Rd, Phoenix, AZ

Hours: 7:00 AM to 11:00 AM
Admission Donation—$5.00
Tailgate Spaces—$10.00 each
Tailgate Setup 6:00 AM

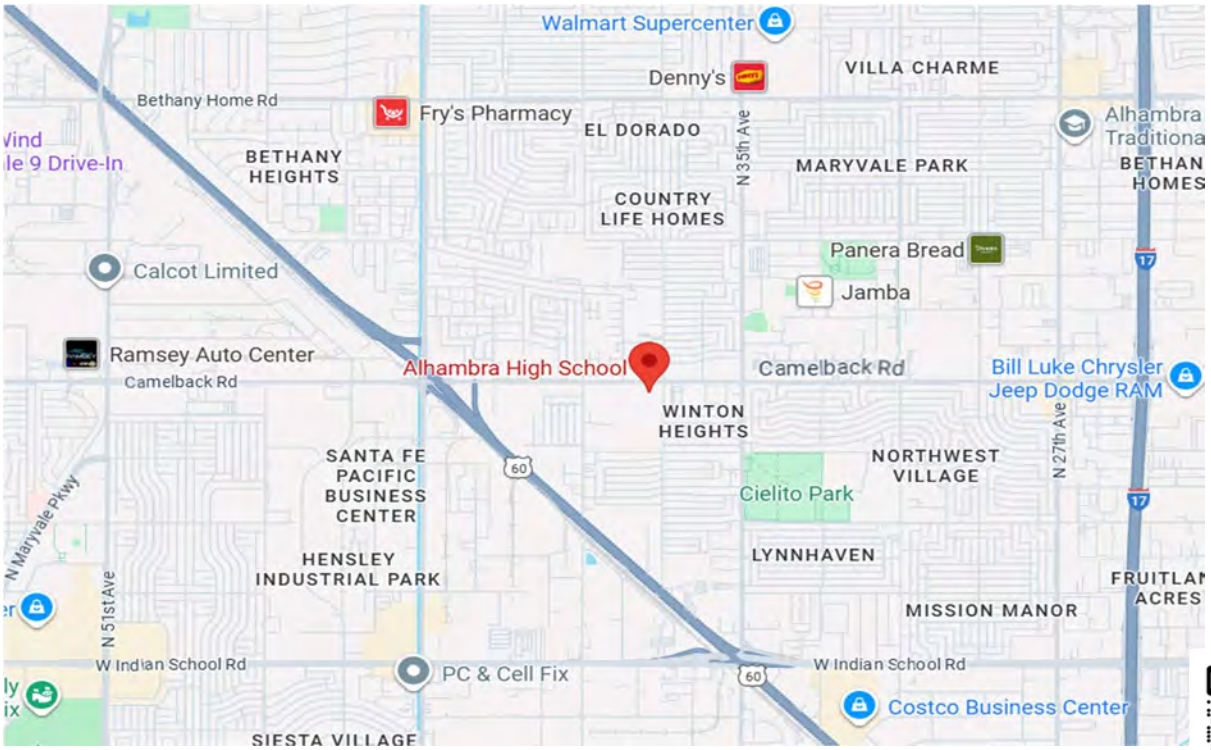
Commercial Vendors & Tailgaters
Prizes, Drinks, Refreshments
VE Testing – 9:00 AM
Presentations!

SELL - TRADE

SPEND THE DAY WITH FRIENDS

BROWSE - BUY

Raffle Tickets: 1 for $5, 3 for $10, 8 for $20
1st Prize: To Be Determined
2nd Prize: To Be Determined
3rd Prize: To Be Determined



Go to k7arc.org for more information

Rev: 12/09/2025

2026 Prescott Hamfest
May 30, 2026

The DX Store
www.dxstore.com

YAVAPAI Amateur Radio Club – PRESCOTT, ARIZONA

PRESCOTT HAMFEST

COMET

Humboldt Unified School District Office

6901 East Panther Path, Prescott Valley, AZ 86314

Call-In Station: K7MRG 147.000 MHz + 600 KHz with PL of 162.2 Hz. Also simplex: 146.580 MHz

Saturday May 30 Schedule

- 0730 Hamfest opens
- 0800 to 1100 Hourly Prize Drawings
- 1130 Grand Prize Drawings (You do not need to be present.)
- 1200 Hamfest ends

YOU ARE ENCOURAGED TO PRE-REGISTER FOR SWAPFEST SPACES AT
https://prescotthamfest.com/tailgating/
DUE TO LIMITED CLEARANCE - RVs, CAMPERS, AND TRAILERS WILL NOT BE PERMITTED.

Featuring:

- ✓ Tail Gate Swapfest
- ✓ Consignment Sales
- ✓ VE License Exams – 9am
- ✓ Youth Club
- ✓ Grand Prize / Hourly Prize Drawings
- ✓ ARRL Booth / QSL Card Checking
- ✓ Coffee and Donuts

General Admission $5.00 per person
Swapfest - Mostly Covered Parking Lot Spaces $10.00 each - max 5 spaces
Full-Time Students FREE with Student ID / 16 Years and Younger FREE

An ARRL sanctioned and ARCA co-sponsored event

ARRL

ARCA

Grand Prizes

YAESU FTDX10 HF/6M Hybrid SDR CW/SSB/DATA

Kenwood TH-D75A VHF/UHF/220 Digital HT

Comet CAA-500 Mark II Antenna Analyzer – 500 MHz
Donated by: The DX Store & Comet Antennas

Raffle Tickets $1 each or 6 for $5 – No need to be present to win Grand Prizes
Check for updates and additional details: www.prescotthamfest.org
Contact: Hamfest Chairperson – Byron Wilkinson WD7J (hamfest@w7yrc.org)

NO GUNS, DRUGS, ALCOHOL, SMOKING, VAPING, OR FIREWORKS
ONLY LEASHED ANIMALS ARE PERMITTED

Amateur Radio Promote & Support

Examples

Promote the Amateur Radio hobby. Show YOUR amateur radio callsign on your Arizona Vehicle License Plate.

Support the Amateur Radio hobby. $17 of the additional annual yearly $25 cost for an Arizona Amateur Radio Vehicle License Plate goes to fund the following Arizona Amateur Radio activities:

College Scholarships, Youth Programs & Emergency Communications

For more Information go to: http://www.az-arrl.org/web/AzPlate.htm

MCC Electronics

High Tech. Hands On.

Since 1965

Want to *really* learn RF ?
Become an Amateur Extra ?

MCC Can help! We are proud to announce that the lab course in Analog RF Communications, **ELE261 – Communication Systems** now focuses on the amateur radio community. The class is taught by amateur extra Mike Childers K7URK, so you know it will be fun and "hands on" –- not like the old boring lecture-only college courses you may remember.

We will have access to MCC's new Ham Shack for use during the course. And feel free to take advantage of this station outside of class with our club. Serious DX-ing awaits!

This lab class includes lecture instruction and hands-on lab bench experiments. During the semester, you will build a working AM/FM radio and use our lab instrumentation and test equipment to troubleshoot and align each stage during construction. We will cover the theory of operation of each stage as we proceed with construction. You'll need a basic knowledge of:

- ✔ Common components, including op-amps & bipolar transistors
- ✔ Basic familiarity with digital multi-meters and oscilloscopes
- ✔ Ability to read/draw basic schematic diagrams & block diagrams
- ✔ Basic thru-hole PC Board soldering skills
- ✔ Basic math skills in high-school level algebra

If you haven't had any coursework in the above topics, you can still take the class with equivalent skills and experience. Here's the general class outline (coverage can vary based on the needs of the group):

I. Introductory Topics
- A. Noise
- B. Noise measurement
- C. Information & BW

II. AM-Transmission
- A. Amplitude modulation
- B. AM analysis
- C. AM generation circuits
- D. AM transmitter systems

III. AM-Reception
- A. Receiver characteristics
- B. AM detection
- C. Superhet receivers
- D. Automatic gain control
- E. AM receiver systems

IV. FM-Transmission
- A. Angle modulation
- B. FM Analysis
- C. Noise suppression
- D. Direct and indirect FM
- E. PLL FM transmitter
- F. Stereo FM
- G. FM transmissions

V. FM-Reception
- A. Block diagram
- B. RF amplifiers
- C. Limiters
- D. Discriminators
- E. PLL receivers
- F. Stereo demodulation
- G. FM receivers

VI. Digital Comm.
- A. Coding
- B. Pulse modulation
- C. Pulse-code modulation
- D. Radio telemetry

VII. Transmission Lines
- A. Types
- B. Propagation down a line
- C. Non-resonant / resonant
- D. Standing wave ratio
- E. Applications

The course meets two nights each week, Mondays and Wednesdays, at 6:30 pm on the MCC campus. Sign up here:

https://www.mesacc.edu/enroll

The Morse Code Characters

(• means a short beep, & — is a longer beep)

A: •—	S: •••
B: —•••	T: —
C: —•—•	U: ••—
D: —••	V: •••—
E: •	W: •——
F: ••—•	X: —••—
G: ——•	Y: —•——
H: ••••	Z: ——••
I: ••	1: •————
J: •———	2: ••———
K: —•—	3: •••——
L: •—••	4: ••••—
M: ——	5: •••••
N: —•	6: —••••
O: ———	7: ——•••
P: •——•	8: ———••
Q: ——•—	9: ————•
R: •—•	0: —————

Punctuation and Procedural Signs

/ (slash): —••—•
, (comma): ——••——
. (period): •—•—•—
? (question mark): ••——••
BT (pause): —•••—
AR (end of message): •—•—•
SK (end of contact): •••—•—

Do I Need To Know Morse Code?

You do not need to know Morse Code for any ham license. The three classes of licenses are Technician, General, & Extra. You must pass a multiple choice exam in order to gain your license. The higher the class of license, the more operating privileges you gain. Many people stop at the first license, and that's okay, too. People of all ages have passed the test, from 8 years old on up.

EXPLORER POST 599

What Is Explorer Post 599?

Exploring is a division of the Boy Scouts of America serving teen boys and girls between the ages of 14 and 21 years old. Each Explorer Post centers its activities around a specialty, usually a career oriented program.

Explorer Post 599 is the Phoenix-area's Ham Radio specialty post. All of our activities center around Ham Radio or high technology education. We meet weekly in a workshop-type meeting, working on projects or learning about an aspect of radio communications. We hold monthly business meetings with a program of interest to the members.

Post 599 has a dedicated group of adults who serve as mentors to the youth members. The adults really enjoy working with the youth, and believe that young people really need Ham Radio. The adults include radio engineers, computer engineers, technicians, and non-technical people, all licensed Ham operators.

Although Exploring is for 14 to 20-year-olds, youth younger than 14 years old are welcomed as associate members and can participate in all activities.

In addition to the weekly meetings, the Post holds at least monthly regular activities, including camping, tours, special training classes, demonstrations of Ham Radio, and providing communications for public service events. All youth and adult members are encouraged to participate in all events.

Explorer Post 599 will form subgroups in various areas of the Phoenix metro area if interest is present. We'll do what it takes to bring Ham Radio to Arizona's youth.

For More Information

Contact American Radio Relay League
The National Organization of Amateur Radio
www.arrl.org

Contact Explorer Post 599

Advisor: Tom Sharp WA9OXY (602) 569-6512
Assoc. Advisor: Scott Cowling WA2DFI (480) 929-9529
Committee Chair: Steve Kafka WB7QGJ (480) 895-6201

Look for us:

On-the-air on these Phoenix Repeaters: Just Call "W7BSA"
147.02+(162.2) 146.66-(162.2) 448.80-(100)
www.post599.org

Ham Radio

A hobby for everyone
A hobby for life
A hobby that serves

Contents:

The Ham Radio Club For Teens

What Is Amateur Radio?

Amateur Radio is a radio service authorized by the US Federal Communications Commission (FCC) and other similar agencies in other countries. Amateur Radio is also known as Ham Radio.

To operate a Ham Radio, you have to be licensed by the FCC. To get your first license, you must pass a 35 question test (getting 26 right). This test has multiple choice answers and all allowable questions are published so you can study them. There are excellent study books available that teach you every thing you need to know, plus internet-based practice tests to build your proficiency. Many Ham Radio clubs have classes or study groups to help you pass.

Ham Radio is used to talk with other Hams across the nation and around the world. But it is so much more than just talking. Here are just a few of the many aspects of Ham Radio:

- Experimentation with electronics
- Connect computer together with radio
- Talk to astronauts in the Space Station
- Send and Receive Television Video and Pictures
- Track each other using GPS Receivers
- Communicate using morse code
- Make local telephone calls using radio
- Provide disaster communications
- Send weather balloons into the upper atmosphere
- Use ham radio satellites
- Use mobile, hand-held, and base station radios
- Talk with your friends who are hams
- Keep track of your ham family members
- Meet new friends on-the-air
- Field day operations
- Plenty of contests
- Call for help almost anywhere
- Build radios, antennas, and accessories
- See how many different people you can talk to

Ham Radio is more than a telephone, a CB, or FRS radio. It is fun, getting involved in any aspect that interests you. You can use Ham Radio anywhere, while traveling, camping, driving around town, anytime, any place. Ham Radio builds skills, not only in electronics, but also talking with others, helping others, learning geography, science, math, or whatever direction you take it in. For many, becoming Hams at a young age influenced them to become engineers and scientists.

Amateur Radio Privileges

When you pass your Ham Radio test and receive your license, the FCC gives you the authority to operate radios in certain frequency bands. Shortwave bands allow you to talk around the world. VHF/UHF bands allow line of sight range, which is extended to statewide/region-wide/worldwide through repeaters linked together by radio and the Internet. Hams are experimenting with Microwave bands, seeing how these new frequencies act, how far can contacts be made, and what types of uses can be made of them, such as computer linking, spread-spectrum, and satellite communications.

The Ham Radio Frequencies

Shortwave Bands

160 Meters	1.8-2.0 MHz
80 Meters	3.5-4.0 MHz
40 Meters	7.0-7.3 MHz
30 Meters	10.1-10.15 MHz
20 Meters	14.0-14.35 MHz
17 Meters	18.068-18.168 MHz
15 Meters	21.0-21.45 MHz
12 Meters	24.89-24.99 MHz
10 Meters	28-29.7 MHz

VHF Bands

6 Meters	50-54 MHz
2 Meters	144-148 MHz
1.25 Meters	222-225 MHz

UHF Bands

70 Centimeters	420-450 MHz
33 Centimeters	902-928 MHz

Microwave Bands

23 Centimeters
1240-1300 MHz
2300-2310 MHz
2390-2450 MHz
3300-3500 MHz
5650-5925 MHz
10.00-10.50 GHz
24.0-24.25 GHz
47.0-47.2 GHz
75.5-81.0 GHz
119.98-120.02 GHz
142.0-149.0 GHz
241.0-250.0 GHz
All above 300 GHz

Look at all those frequencies! Compare it with the 40 channels at 27-MHz in Citizens Band (CB), or the 14 channels in the 460-MHz Family Radio Service (FRS) band

A Special Language

As in any specialty, Hams have their own special lingo. These abbreviations are especially useful in Morse Code to reduce the number of letters that need to be sent.

Q-Signals

QRM	Man made interference
QRN	Natural interference (Static)
QRP	Low power
QRZ	Who is calling me?
QSB	Your signals are fading.
QSL	Acknowledge receipt, "Okay", or a contact card
QTH	Location
73	Best wishes
88	Hugs and kisses (just for fun)
YL	Young Lady (any female operator)
OM	Old Man (any male operator)

Amateur Radio Phonetics

Phonetics allow spelling a word or a callsign with words starting in the letter. It prevents confusion when letters sound similar, like "F," "S," and "X." For example: "My name is Bill, spelled **B**ravo **I**ndia **L**ima **L**ima"

A LPHA	**J** ULIETT	**S** IERRA
B RAVO	**K** ILO	**T** ANGO
C HARLIE	**L** IMA	**U** NIFORM
D ELTA	**M** IKE	**V** ICTOR
E CHO	**N** OVEMBER	**W** HISKEY
F OXTROT	**O** SCAR	**X** -RAY
G OLF	**P** APA	**Y** ANKEE
H OTEL	**Q** UEBEC	**Z** ULU
I NDIA	**R** OMEO	

Ham Radio - RST Signal Reports

R-S-T Characteristics	Readability R	Strength S	Tone T (cw)
1	Unreadable	Faint signals, barely perceptible	Sixty cycle a.c. or less, very rough and broad
2	Barely readable, occasional words distinguishable	Very weak signals	Very rough a.c., very harsh and broad
3	Readable with considerable difficulty	Weak signals	Rough a.c. tone, rectified but not filtered
4	Readable with practically no difficulty	Fair signals	Rough note, some trace of filtering
5	Perfectly readable	Fairly good signals	Filtered rectifier a.c. but strongly ripple-modulated
6	N/A	Good signals	Filtered tone, definite trace of ripple modulation
7	N/A	Moderately strong signals	Near pure tone, trace of ripple modulation
8	N/A	Strong signals	Near perfect tone, slight trace of modulation
9	N/A	Extremely strong signals	Perfect tone, no trace of ripple or modulation of any kind