

Radio amateurs

Radio amateurs are licensed by national governments after passing appropriate examinations. In the United States, Amateur Radio licenses are issued by the FCC. Examinations include questions on Rules and Regulations as well as Radio Theory.

Radio amateurs come from all walks of life. Kings, politicians, firemen, policemen, lawyers, doctors, scientists, housewives and children are included in the ranks of Radio Amateurs. All of these people share a non-monetary interest in radio. Radio amateurs may not pursue profit making activities with their stations.

How Far Can I Talk ?

The distance that one can communicate is determined by the frequency, time of day, season and the solar cycle. Radio amateurs understand the rules of propagation and are able to communicate globally. Additionally Amateur Satellites and repeaters provide enhanced communication without relying on the state of the atmosphere. The Space Shuttle and International Space Station have amateur stations. Radio amateurs can communicate using voice, Morse code, digital signals and television pictures.

K8QIK Repeaters:

147.03 +.600

146.70 -.600

443.875 +5.0

What is Radio ?

Radio is the communication over distance without the use of wires or cables. Communication is established through the emission of electromagnetic radiation emitted from the antenna. Electromagnetic waves include visible light which, travel at the speed of light and are characterized by their wavelength or frequency. Electromagnetic waves used by radio equipment have longer wavelengths than visible light which typically range from several hundred meters to millimeters.

Antennas

Electrons in metallic objects interact with the electromagnetic fields associated with radio waves to produce small currents in the antenna that are detected by the receiving apparatus. Transmitters produce currents leading to the emission of radio waves. Antenna size is generally related to the frequency or wavelength of operation. Antenna designs based in $\frac{1}{4}$, $\frac{1}{2}$ and 1 wavelength are common.

The **Lancaster & Fairfield County Amateur Radio Club** is a general interest Amateur Radio club and we sponsor bi-monthly licensing examinations and emergency communication activities.

Meetings are held the 1st Thursday of each month at 7:30 pm at the club house on State Route 37 (Granville Pike) next to Beavers Field, Lancaster, Oh

All other Thursdays are radio night from 6:30 p.m. to 8:30 p.m. where you can use the clubs radio equipment (if licensed) or socialize with fellow hams.

Listen to our weekly radio "check-ins"
Monday at 9:00 p.m. on 147.03 MHz
Or

**Come to the clubhouse on Thursday and
have all your questions answered.**



**Lancaster & Fairfield County
Amateur Radio Club**

We are a 501 (c) 3 organization

Amateur Radio



Today !

P.O. Box 3
Lancaster, OH 43130
www.k8qik.org

What do Radio Amateurs Do?

Technical

Construction of radio apparatus including improvements to existing technology. Antenna construction is popular. Development of new digital modes of communication (e.g. PSK31 and FSK441)

Radio History

Study of radio history and restoration of antique radio apparatus.

Fellowship

On the air and in person meetings with fellow hams across the street and around the globe promote international good will.

Emergency Communication

Hams provide emergency communications at no cost in times of natural and national emergency. During emergencies Amateur Radio is often the only available communication. Frequency agile radios help to solve interoperability problems with public services. Amateurs assist police, fire and other local, state and federal agencies with their communication needs in times of disaster.

Also

Below are some of the sub-hobbies related to ham radio:

- Alternative Energy Operation
- Amateur Television (ATV)
- Antenna Design & Building
- Antique Radio Collecting & Repair
- Amateur Radio on International Space Station

- Astronomy, Radio
- Automatic Position Reporting System (APRS)
- Awards ("Certificate Chasers")
- Backpacking Operations
- Ballooning, High Altitude
- Civil Air Patrol (CAP)
- Classic Amateur Radio Equipment
- Clubs
- Coast Guard Auxiliary
- Community Service (see also Public Service)
- Contesting
- County Hunting
- Digital Modes
- Direction Finding (DF) & Tracking
- Distant Stations (DX)
- DXpeditions
- Education
- Emergency Communications
- Emergency Management
- Extraterrestrial Intelligence Search
- Famous Hams
- Hamfest (Flea Market)
- HF Fax (Facsimile)
- Home brewing & Kits
- Hurricane Tracking
- Interference
- Internet Linking
- Islands On The Air (IOTA)
- Lighthouses
- Low Power Operating (QRP)
- Maritime
- Meteor Scatter
- Microwave Communications
- Military Affiliate Radio (MARS)
- Military Radio operating/restoration
- Missionary Support
- Mobile Operations
- Moon bounce

- Morse Code
- Museums
- Museum Ship Radio Clubs
- Narrow Bandwidth Modes
- Official Observer
- Packet Radio
- Personal Conversations
- Propagation
- Public Service
- Radio Teletype (RTTY)
- Remote Control
- Repeaters
- Satellite Communications
- Scouting
- Search and Rescue (SAR)
- Slow Scan Television (SSTV)
- Solar Activity
- Space Communications
- Sporadic E-Layer
- Spread Spectrum
- Teaching
- Traffic Handling (message traffic)
- Very Low Frequency (VLF) Operation
- Volunteer Examiners (VE)
- Weak Signal Digital
- Weather (WX)
- Weather Satellite

And there's so much more !!

Come and visit on any Thursday

**Lancaster & Fairfield
County**

Amateur Radio Club

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