



April 2018

Neighbors Helping Neighbors...

Inside this issue:

History of Amateur	1
History of <i>cont</i>	2
Becoming an Amateur	2
Radio License Class	2
Pancake Benefit	3
Training Calendar	4

Next Meeting Dates:

General Meeting:

April 11, Fire Station 1.
Topic: Basic Training.
Meeting starts at 6:00 with doors open at 5:30 PM.

Leadership Meeting:

April 25, Fire Station 1.
Topic: Basic AAR.
Meeting starts at 6:00 with doors open at 5:30 PM.



History of the Amateur Radio Operator

Amateur Radio (HAM radio) is a popular hobby and service that brings people, electronics and communication together. Operators use radios to talk across town, around the world, and even into space, all without the Internet or cell phones. It's fun, social, educational, and can be a lifeline during times of need; specifically big disasters. The amateur radio operator, once licensed, uses designated radio frequencies to broadcast communications under specific parameters identified and mandated by the Federal Communications Commission (FCC).

Although Amateur Radio operators get involved for many reasons, they all learn common basic knowledge of radio technology and operating principles, and then pass an examination for the FCC license to operate on radio frequencies under specified guidelines.

How did this passion originate?

As early as 1888, radio waves were proven to exist by Heinrich Rudolf Hertz. This concept was later adapted by Guglielmo Marconi in experiments with 'wireless' telegraph technology. These two findings, along with James Clerk Maxwell presented his theory of the electromagnetic field, set the stage for the future of amateur radio operations across the globe. In fact, in 1901, Marconi communicated across the Atlantic using a high power radio device and giant antennas. This is one example of the rapid expansion of the amateur radio operator resulting in them gaining the derogatory name of HAM radio operators, and causing enough complications for commercial users they were ordered by the US Congress to cease and desist use in 1919.



Ham was a term often synonymous with jam, or interfere. The amateur's use of the radio frequencies often blocked others from use. Congress would pass the Radio Act of 1912 implementing regulations on radio wavelengths and frequencies' use. In the interim, the American Radio Relay League was founded by Hiram Percy Maxim in 1914. It was only a brief two year period before amateur radio use was once again reinstated and operators began

History of the Amateur Radio Operator *cont...*

building their communications back up. Maxim is also famous for recognizing that messages could be sent more reliably over long distances if relay stations were organized.

During World War II, Congress once again suspended all amateur radio operations. With most amateur radio operators in the armed forces at this time, the US government created the War Emergency Radio Service which would remain active through 1945. After WWII, the amateur radio service began operating again, with many operators converting war surplus radios to amateur use.

One of the greatest feats for mankind was made in 1960 when the first two-way contact communication between the Earth and Moon took place. This was probably the crux of continuity of amateur radio operations still existing today.

<http://www.arrl.org/ham-radio-history>

Becoming an Amateur Radio Operator

Those interested in becoming an amateur radio operator will need to successfully complete the Federal Communications Commission (FCC) examination on applicable regulations, electronics, radio theory, and radio operation. As a component of their license, amateur radio operators are assigned a call sign that they use to identify themselves during communication. Upon successful completion, licensed operators may engage in two-way radio communications using licensed frequencies as regulated by the FCC in the US. Most countries have some form of governed radio use with the highest population of amateur radio operators in the US and Japan, followed by Thailand, Germany, and Canada. Currently, the governments in both Yemen and North Korea prohibit their citizens from becoming amateur radio operators, but other countries do not. Most nations even permit foreign visits to use the amateur radio frequencies when visiting their country.

One of the benefits for those seeking a new hobby, is most countries have no minimum age requirement for licensing. And some have specifically developed programs to encourage youth to participate. The majority of operators are predominantly male through-

out the world with only a small percentage being female. In the US call-signs are given to each licensed operator containing one-two prefix letters, a digit associated with your region, and then typically one-two more prefixes.

Another benefit is cost. The examination fee is only \$15 in the US. There are three levels of licensure available for hobbyist including Technician, General, and Amateur Extra. Both the Technician and General class license exams consist of 35 multiple choice questions on radio theory, regulations, and operating practices opening the door to world-wide communications. The Amateur Extra requires passing a more difficult 50 question exam. The exams must be taken in order. If you pass the first, you are able to take the second, and the third (if you pass the second) with one single \$15 fee in one session. For those who would rather take each exam on separate session dates they will pay a fee each time. Ideally, at least attempting the second exam in one session would behoove the future operator financially.

Practicing with your amateur radio could become great fun as you will be able to communicate with folks world-wide.

https://en.wikipedia.org/wiki/Amateur_radio_operator

Amateur Radio License Classes

Ashland CERT will be offering CERT Members an opportunity to train and test on the Technician Level Amateur Radio Operations for those interested in becoming licensed users. Classes will be held at Fire Station 1 on Tuesday evening beginning in April. For those interested please contact the CERT Office for more information.



PANCAKE BREAKFAST BENEFIT

WHEN: Saturday, May 12

8 AM – 11 AM

WHERE: 5811 S. Pacific Hwy. Phoenix, Oregon

For more information: 541-552-2226



Cost:

Adults: \$ 10

Kids: \$ 5

Kids 5 and under: FREE with
paying adult

Breakfast includes:

Pancakes

Scrambled eggs

Sausage patty

Drinks and condiments

CERT 2018 Calendar of Events

January 2018	February 2018	March 2018
General Meeting - January 10 <i>(Bleeding Control)</i> Personal Protection Training- January 13 Leadership Meeting - January 24	General Meeting - February 14 <i>(CERT Go-Bags / Backpacks)</i> Leadership Meeting - February 28 <i>(CERT Member Handbook)</i>	General Meeting - March 14 <i>(Radio Comms)</i> Alternative Routes & Access - March 17 CPR Night - March 27 (6pm) Station 2 Leadership Meeting (Basic Plan) - March 28 Volunteer Day - March 31
April 2018	May 2018	June 2018
Basic Training - April 5, 6, 7, 19, 20, 21 General Meeting - April 11 <i>(CERT Skills)</i> Leadership Meeting - April 25 <i>(Basic AAR)</i>	General Meeting - May 9 - <i>(Basic Graduation)</i> Mother's Day Pancake Breakfast - May 12 Leadership Meeting - May 23 <i>(CampOut Planning)</i>	Emigrant Lake Campout - June 2-3 General Meeting June 13 <i>(Evacuation Training)</i> Leadership Meeting - June 27 <i>(Planning for 4th of July & Campout AAR)</i>
July 2018	August 2018	September 2018
APD presents ALICE - July 1 Parade Support - July 4 General Meeting - July 11 <i>(Ropes & Knots)</i> Basic Refresher - July 21 Leadership Meeting - July 25 <i>(4th of July AAR)</i>	General Meeting - August 8 <i>(ICS)</i> Opening Bases - August 18 CPR Night - August 15 (6pm) Station 2 Leadership Meeting - August 22 <i>(Basic Planning)</i>	General Meeting - September 12 <i>(Cribbing Techniques)</i> Family & Friends CPR - September 15 Leadership Meeting - September 26 <i>(Basic Planning)</i>
October 2018	November 2018	December 2018
Basic Training - Oct. 4, 5, 6, 18, 19, 20 JCFD5 Open House - October 10 - (5pm-7pm) Leadership Meeting October 24 <i>(Basic AAR)</i>	General Meeting - November 14 <i>(Basic Graduation)</i> Leadership Meeting - November 28 <i>(Annual Training Planning Session)</i>	CERT Year in Review December 12 - 6:00 to 8:00 PM No Meetings Holiday Season ~ Training Stand Down

Note: General meetings are open to the public. Doors open at 5:30pm. Meetings are from 6-8:30pm at Fire Station 1.

Ashland CERT
 455 Siskiyou Boulevard
 Ashland, OR 97520

TO: