



September 8, 2014



Meeting Agenda

- Welcome-Visitors and Members
 - Introductions
- Recognition
 - KA7ZZZ sk
- New Business/ Announcements/ Calendar-
 - Test Session
 - Fox Hunt
 - Saint to Saint
 - W1AW/0 sign ups
 - OT100 aid station request
 - Repeater Work Day
- ARRL Quiz- In a Perfect Sol-itude
- Next Meeting- Oct 6



Recognition

KA7ZZZ sk

Roger Roy Hyatt, Jr.

March 19, 1945 - August 30, 2014



Calendar/ Events

Test Session Sat, Sept 13

Contact Joe K0OG if you would like
to test or upgrade



Calendar/ Events

FOX HUNT



READY TO
GO
Sat SEP 20
9:00-noon



For more info contact Jeff KD0JLM



Calendar/ Events

FOX HUNT

- 1.) Wait for the fox to transmit, and quickly rotate your body holding the beam out straight in front of you. When you get the lowest signal, the null, the fox is directly behind you.
- 2.) Locate north using the compass, then use the protractor to find the number of degrees from north to determine bearing to the fox.
- 3.) Using landmarks along the bearing or the protractor on the map, draw a line from your location along the bearing.
- 4.) Communicate with the other teams to get their bearings and locations, and plot them on the map as well.
- 5.) The intersection of the lines is the approximate location of the fox.
- 6.) Relocate closer to the fox, and repeat steps 1 through 5.
- 7.) Lather, rinse, repeat until you find the fox.



Calendar/ Events

Saint To Saint

Sunday, Oct 5



We need radio operators to staff the Baton Exchange Stations- no experience necessary!

Contact: Shawn KD0DMJ

KD0VNZ and WB9KHR
Baton Station #1



Calendar/ Events

W1AW/0

October 2014

W1AW/0 in October requires commitment to detailed logging and being on air at designated time. Contact Joe K0OG to sign up for a time block- earlier the better for preferred time slots.

<http://www.w0kah.net/w1aw/index.php?date=2014-10-08>

N1MM is a good logging program for SSB



Calendar/ Events

Ozark Trail 100

Saturday, November 1

Berryman-11

Pigeon Roost-10

**Contact Ron NA0Q if
interested!**





Calendar/ Events

Repeater Work Day

Saturday, October 11



Contact Shawn
KD0DMJ if
you would like
to help.

Start time
10:00am
Bring gloves, bbq
lunch...looking
for a brush hog!



Calendar/ Events/ Ideas 2014

January

February

March

Spotter Training (cancelled)

Test Session

April

Joint Mtg w/ LARC MO QSO Party

May

Test Session

June

Hellbender

Field Day

Test Session

July

Rest

August

(possible Fox Hunt- 6 hams expressed interest)

September

Test Session 9/13, Fox Hunt 9/20

October

Repeater work day Oct 11, W1AW/0

November

Ozark Trail 100

December

Test Session

Other ideas:

Bryan KDOGYL suggested investigating a digital network that has amateur allocations.

William KD0NUI- Foxhunt



Announcements

New business,
Announcements, Ideas....



Amateur Radio Quiz-

In a Perfect
Sol-itude



- 1) What is the name of the new space-based solar observatory?
 - a. SOHO
 - b. Ulysses
 - c. SDO
 - d. Mariner I

- 2) Solar seismology allows scientists to view what aspect of the Sun?
 - a. photosphere
 - b. the Sun's far side
 - c. the solar poles
 - d. the solar core

- 3) Why does it take charged particles longer than photons to travel from the Sun to Earth?
 - a. They can only escape the Sun at its poles.
 - b. Charged particles are repelled by the solar wind.
 - c. Charged particles from the Sun don't travel at the speed of light.
 - d. They are often captured by Venus.

- 4) How long does it take for sunspots and other features on the Sun's surface to rotate back to the same position?
 - a. 36 hours
 - b. 7 days
 - c. 27 days
 - d. 88 days



- 5) What two pieces of data are plotted on a “solar butterfly diagram”?
- sunspot position and date
 - sunspot position and strength
 - solar flux and direction of the solar wind
 - sunspot cycle peak and year
- 6) How did the solar corona get its name?
- It was first sighted during the coronation of Ferdinand I of Spain.
 - It looks like a crown during a total solar eclipse.
 - M. P. Corona predicted its existence based on the precession of Mercury’s orbit.
 - The British Royal Observatory discovered it in 1642.
- 7) What element is created as the end product of the Sun’s primary nuclear reaction?
- hydrogen
 - helium
 - lithium
 - unobtainium



- 8) What gives the Sun its characteristic yellow color?
- Sodium in the Sun's outer atmosphere.
 - Absorption of all but yellow light by the Earth's atmosphere.
 - Red-shifting of photons as they escape the Sun's gravity.
 - The temperature of the Sun's photosphere.
- 9) What is a solar prominence?
- Large structures of hot gas extending outward from the Sun's surface.
 - A sunspot large enough to be seen with the naked eye on Earth.
 - Excess UV radiation over a short period of time.
 - A mountaintop on which a solar observatory is constructed.
- 10) Which layer of the Sun has the highest temperature?
- core
 - photosphere
 - corona
 - heliotrope

Bonus: What did Eddington observe the Sun doing to light that confirmed a prediction of Einstein's theory of general relativity?



Answers

1. c -- Currently being commissioned, the [Solar Dynamics Observatory](#) may do for solar science what the Hubble Telescope did for visual astronomy.
2. b -- The seismic waves can be used to determine structure we cannot see directly.
3. c -- Charged particles in a magnetic field circle the field lines as they travel.
4. c -- This is the Sun's period of rotation.
5. a -- The diagram shows where sunspots form at different points in the solar cycle.
6. b
7. b -- Hydrogen atoms are fused to create helium in a series of steps.
8. d -- Hotter stars are more blue and cooler stars are more red.
9. a -- Check out the Web site mentioned in the answer to Question 1 to see a huge example.
10. a

Bonus: Bending it, demonstrating that gravity can affect light as predicted by Einstein.



Next meeting: Oct 6

(Meeting notes are posted on RRARS.org)