

## AMATEUR MOBILE OPERATORS AT RISK

Motor vehicles were invented over one hundred years ago. In the following years, governments developed laws and regulations applicable to them. Likewise, a few decades later, radio was discovered. Again, after a slight pause, laws and regulations concerning radio appeared.



Once both motor vehicles and radios were part of our society, it followed that some laws would be developed that would affect both entities. So it was, that several decades ago, New York State Vehicle and Traffic Law Title 3, Article 12, [Section 397](#) was created. It reads:

§ 397. **Equipping motor vehicles with radio receiving sets capable of receiving signals on the frequencies allocated for police use.** A person, not a police officer or peace officer, acting pursuant to his special duties, who equips a motor vehicle with a radio receiving set capable of receiving signals on the frequencies allocated for police use or knowingly uses a motor vehicle so equipped or who in any way knowingly interferes with the transmission of radio messages by the police without having first secured a permit so to do from the person authorized to issue such a permit by the local governing body or board of the city, town or village in which such person resides, or where such person resides outside of a city or village in a county having a county police department by the board of supervisors of such county, is guilty of a misdemeanor, punishable by a fine not exceeding one thousand dollars, or imprisonment not exceeding six months, or both. Nothing in this section contained shall be construed to apply to any person who holds a valid amateur radio operator's license issued by the federal communications commission and who operates a duly licensed portable mobile transmitter and in connection therewith a receiver or receiving set on frequencies exclusively allocated by the federal communications commission to duly licensed radio amateurs.

Originally, mobile amateur radios were crystal controlled. If you wanted a specific frequency, you bought a crystal cut specifically for that frequency. All well and good! Mobile amateurs

*(Continued on page 6)*



# ATTENTION ALL STARS MEMBERS!

Please attend the monthly meeting on Thursday, April 3<sup>rd</sup>, at the Hamburg Memorial Youth Center.

There will be a significant and very exciting announcement made that should delight all **STARS** members.

***BE THERE!***



**Dayton Hamvention**  
Sponsored by Dayton Amateur Radio Association  
Since 1952

**Makers... The Future of Ham Radio**

**May 16-18 2014**

[hamvention.org](http://hamvention.org)



## NWS SKYWARN TRAINING

Upcoming training is listed in the table below. For more information, and to register for a training session, use this link:

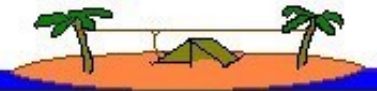
<http://www.erh.noaa.gov/buf/skywarnt.htm>

DATE	TIME	COUNTY	LOCATION	SPONSOR/CONTACT
Monday April 7th, 2014	6:30 p.m.	Erie	Cheektowaga Erie Co. Fire Training Ctr 3359 Broadway	Erie County
Thursday April 10th, 2014	7:00 p.m.	Allegany	TBA	Allegany County Emergency Management
Wednesday April 23, 2014	7:00 p.m.	Cattaraugus	Little Valley Cattaraugus County Bldg 303 Court Street	Cattaraugus Co. Office of Emergency Mgmt. Chris Baker — <a href="mailto:CJBaker@cattco.org">CJBaker@cattco.org</a> Sign up at: <a href="http://www.cattco.org/fire-training">www.cattco.org/fire-training</a>
Tuesday April 29th, 2014	7:00 p.m.	Erie	Buffalo Buffalo State College Classroom Bldg, 4th Floor	Buffalo State Geography Department
Wednesday May 21, 2014	7:30 p.m.	Erie	Tonawanda Tonawanda City Hall	ARATS

# UP with antennas

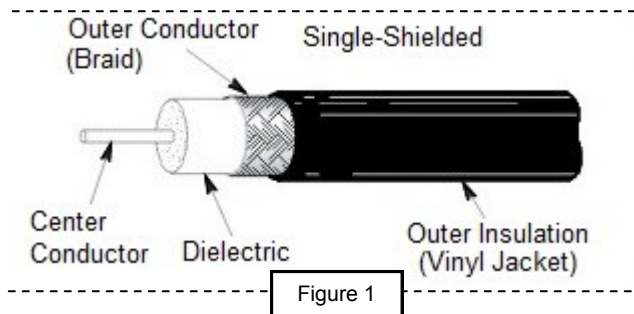


by Don - K2PMC



In this month's column we will review various types of transmission lines and how they will fit into the design of your antenna system.

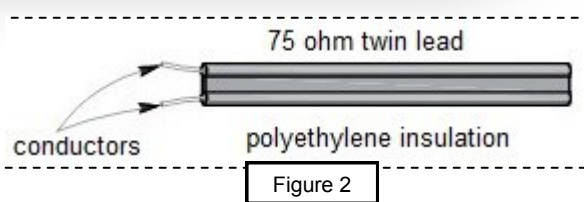
There are basically 2 types of transmission lines, coaxial cable (one side grounded), and balanced (ungrounded) lines. Both coaxial and balanced lines come in different impedances and dielectrics. We've talked about impedance, but what is a dielectric? Simply stated, the dielectric is what separates one wire from another. In coaxial cable it separates the shield from the center conductor and in balanced lines, it separates one wire from another. The dielectric is very important, especially in coaxial lines because it is what determines the efficiency of the cable which ultimately determines how much of the power from your transmitter actually arrives at the antenna. The dielectric is also important in balanced lines, but not to the extent that it is in coaxial lines. The vast majority of amateurs using coaxial cable in the HF spectrum use one of 3 types of 52 ohm cable. They use small (RG8X), medium (RG58), or large (RG8 or a variant of RG8). In Figure 1 you can see the typical construction of coaxial cable.



Let's review the types of balanced transmission lines:

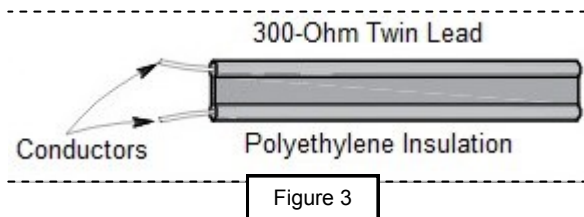
### 75 Ohm Twin lead - Figure 2

I have not seen or heard of this line in years. I don't think anyone uses it any more.



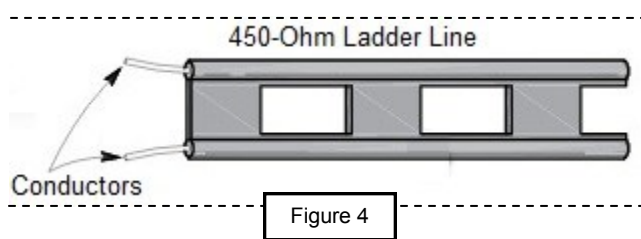
### 300 Ohm TV Twinlead - Figure 3

This line is not used as much as it was in the past. It can handle medium power, perhaps as much as 500 watts but I would not recommend it in high SWR situations.



### 450 Ohm Window Line or Ladder Line - Figure 4

This is the balanced line of choice used by many amateurs today. It can handle high power if the SWR is not too high.



### Open Wire Line - Figure 5

It is similar to Window Line except it utilizes air as the dielectric. It can be made in any impedance desired and is available commercially, usually in 600 ohm impedance. The impedance is determined by the spacing between the 2 wires. It can handle high power and high SWR.

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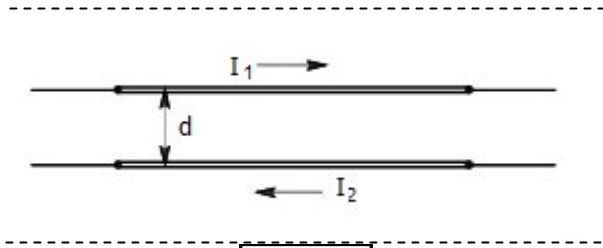


Figure 5

Open wire line can be constructed using bare or insulated wire. The effect of the insulation on the impedance is insignificant.

Of the various types of balanced transmission lines, I prefer open wire line for various reasons which I will not go into. And, of the various impedances available, I prefer 600 ohm open wire line.

The transmission line greatly affects the performance of your antenna. By that I mean, there are inherent losses in the transmission line which will be exacerbated by the mismatch at the feed point. These losses can be considerable and can negatively affect the power that ultimately reaches your antenna.

In next month's column we will compare the advantages and disadvantages of coaxial cable and balanced line. These are the factors that will be important to you in the design of your antenna system.

73,

Don

K2PMC

(Editor's note: If you have questions or comments regarding anything from "Up with Antennas", feel free to email Don Niles at: [k2pmc@arrl.net](mailto:k2pmc@arrl.net).)

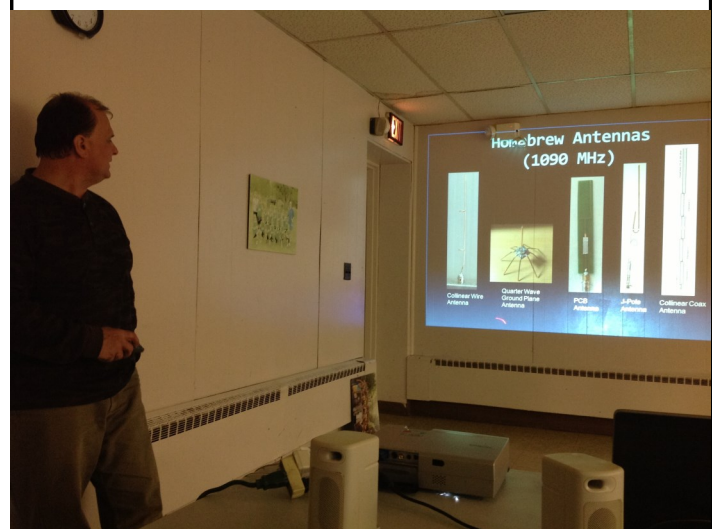
## ADSB PRESENTED

The March meeting included a presentation by **Ken Pokigo, KC2AYK**, on ADSB systems for aircraft. Basically, the systems utilize GPS technology to provide data to air traffic controllers concerning a plane's location. The system is due to replace radar by the year 2020.

With such technology, anyone will be able to utilize that same information on their home computers. A proper receiving antenna (home built) would be required.

A demonstration was set up for the meeting.

(For more information, see **QST 2014**.)



PHOTOS IN THIS COLUMN PROVIDED BY

LINDA JABLONSKI, KC2YMM

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## AMATEURS AT RISK

did NOT have radio sets "capable of receiving frequencies allocated for police use", as the crystals limited reception to "exclusively allocated" amateur frequencies.

However, over the decades since the law was written, amateur equipment has evolved. Specifically, crystal control of frequencies gave way to the synthesized radios now in use. Today, most amateur mobile radio sets have receivers that are tunable over entire bands of frequencies, including those allocated for police use! That many Icom, Yaesu, Kenwood or other modern radios allows users to tune in police frequencies, puts these radios in direct conflict with the law cited above. These radios include Icom models IC-2200, IC-2300, IC-V8000, IC-2820; Kenwood models TM-V71A, TM-D710GA, TM-281A; Yaesu models FT-1900, FT-2900, FT-7900, FT-8800; as well as many other previous models from all companies. All of these models (and many others) are capable of receiving signals on frequencies allocated for police use.

Over the years, not many amateurs have reported problems regarding the conflict of most modern mobile radio sets with the law. However, things are changing, and fast!

These changes are related to the recent promotion of **Dan Jones** to the rank of Major within the New York State Police. **Major Jones** has been put in command of the Traffic Safety Unit. That unit is specifically charged with enforcement of all traffic regulations in NYS.

Why the difference? **Major Jones** is, and has been, an active amateur radio operator (WA2WNI) for many years. As such, he is very familiar with the equipment amateurs use. He is also familiar with the provisions of NYS Vehicle & Traffic Law, section 397.

**Major Jones** is designing a program to ensure that amateurs obey the law. Designated "*Operation Ham Stake*", it will target directed searches of the vehi-

cles used by amateur radio operators. **Jones** has researched all amateur mobile gear, specifically with regard to receiving frequency ranges, and prepared a guide for Troopers to readily identify those models capable of receiving police frequencies.

*Operation Ham Stake* has begun. Until all the kinks have been worked out, the program is currently limited to the NYS Thruway. Also, to minimize distractions to traffic, activity is limited to cars in the rest stops along the Thruway. The modus operandi will be to identify cars operated by amateurs by the antennas mounted on the vehicles. Those cars will be approached, searched for amateur equipment, and a determination will be made whether or not the radio is in violation of Section 397.

So, what can amateurs do to limit their vulnerability, since most of their radios will be found in violation? Some simple practices will be useful.

First, avoid the Thruway rest stops. Make sure your vehicle is filled before entering the Thruway. Also, should you need fuel, instead of using the rest stops, exit the Thruway, fuel at any station, and then return to the Thruway.

Second, make sure your bladder is emptied before entering the Thruway. This should limit your need for rest rooms. If necessary, carry a bottle with you, so you can void without using a rest stop.

What about the YLs and XYLs who are amateurs? Obviously, enter the Thruway only with an empty bladder. If necessary, there are some products which may assist for those situations where you cannot wait. [Travel Mate](#), [SheWee](#), [Travel John](#) and [Little John \(with female adapter\)](#) are products which will allow women to void with minimal disruption.

Third, amateurs should consider removing their antennas prior to travel on the Thruway. Remember, Troopers are relying on the antennas to identify amateur operators.

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## AMATEURS AT RISK

Finally, amateurs should pressure legislators to update Section 397 to remove the threat to mobile amateur radio. Today, it is difficult to find an amateur radio that will not receive other frequencies, including those used by police. Also, as originally written, Section 397 assumes that reception of police frequencies implies interference with those frequencies; nothing could be further from the truth!

Ironically, strict enforcement of Section 397 threatens one of the primary amateur activities sponsored by the State Police. As currently written, most of the participants in the annual Pumpkin Patrol are amateurs in violation of Section 397.

In addition to the Pumpkin Patrol, other services provided by local ARES/RACES units are now in question as to their legitimacy. These include all events where amateurs provide mobile communications for event operations. Events such as the Tour de Cure and Ride for Roswell could be affected.

It is highly doubtful that there are enough old-fashioned crystal controlled amateur radios could be found for today's NYS amateurs. It is also very doubtful that the big three manufacturers would design specific frequency limited editions for the NYS community.

Perhaps amateur mobile radios will become a thing of the past in New York State.



**AMATEUR MOBILES  
IN NEW YORK STATE**

## HAMFESTS

04/05/2014 [Drumlins ARC Ham-fest](#)

**Location:** VFW Memorial Post 6778  
4306 Route 31  
Palmyra, NY 14522

**Sponsor:** Drumlins ARC

**Website:** [www.DrumlinsARC.us](http://www.DrumlinsARC.us)

04/12/2014 [Cuyahoga Falls ARC's 60th Annual Hamfest](#)

**Location:** Emidio & Sons Party Center  
48 East Bath Road  
Cuyahoga Falls, OH 44221

**Sponsor:** Cuyahoga Falls Amateur Radio Club

**Website:** [www.cfarc.org/hamfest2014.php](http://www.cfarc.org/hamfest2014.php)

04/27/2014 [Two Rivers ARC Ham-fest](#)

**Location:** Boston (McKeesport), PA

**Sponsor:** Two Rivers ARC

**Website:** [www.trarc.net](http://www.trarc.net)

*(control + click on name for full information)*

## REPORTERS WANTED

Is there an area of amateur radio you would like to see addressed in *TELSTAR*? We are seeking reporters to write columns on a regular basis.

If you have an affinity for and knowledge of particular subject areas within amateur radio, your services are requested as a regular columnist.

Topics could include contesting, digital modes, emergency service, equipment review, satellite communications, regulation/legal issues, or any of a number of other areas.

Interested? Contact us at: [wb2elw@verizon.net](mailto:wb2elw@verizon.net).

# EXAM SITES

**04/05/2014**      [Jamestown](#)  
 Sponsor:        CARS  
 Location:        Prendergast Library  
                     509 Cherry Street 2nd fl conf rm  
 Time:            2:00 PM (Walk-ins allowed)

**04/05/2014**      [North Tonawanda](#)  
 Sponsor:        ARA of the Tonawandas  
 Location:        North Tonawanda Fire Headquarters  
                     495 Zimmerman Street - Basement  
 Time:            9:30 AM (Walk-ins allowed)


**04/09/2014**      [Niagara Falls](#)  
 Sponsor:        Niagara Radio Club, Inc.  
 Location:        Venture Forthe, Inc.  
                     3900 Packard Road  
 Time:            6:30 PM (Walk-ins allowed)

**04/12/2014**      [Wellsboro PA](#)  
 Sponsor:        Tioga County ARC  
 Location:        Senior Citizens Center  
                     Queen Street  
 Time:            8:30 AM (Walk-ins allowed)

**04/15/2014**      [Meadville PA](#)  
 Sponsor:        Crawford ARS  
 Location:        St Brigid Church Social Hall  
                     383 Arch Street  
 Time:            6:30 PM (No walk-ins)

**04/19/2014**      [Erie PA](#)  
 Sponsor:        Wattsburg Wireless Association  
 Location:        Greene Twnshp Mun Bldg Rm 114  
                     9333 Tate Road  
                     (use district justice entrance)  
 Time:            9:00 AM (Walk-ins allowed)

(control-click on City for more info)

**04/19/2014**      [Rochester NY](#)   
 Sponsor:        Rochester ARA  
 Location:        RIT Gleason Engineering Bldg Rm 3139  
                     1 Lomb Memorial Drive  
 Time:            10:00 AM (Walk-ins allowed)

**04/27/2014**      [Geneseo](#)  
 Sponsor:        Genesee Valley ARA  
 Location:        Livingston County Government Center  
                     2 Court Street Rm 205  
 Time:            5:30 PM (Walk-ins allowed)

## VE SESSION RESULTS

**STARS** conducted an examination session on March 15, 2014. Three passed the technician exam. One continued with the general exam and also passed that.

<b>Michael Josker</b>	<b>KD2FZX</b>	<b>Technician</b>
<b>Earl Kipler Sr.</b>	<b>KD2FZV</b>	<b>General</b>
<b>Saad Mirza</b>	<b>KD2FYW</b>	<b>Technician</b>

Volunteer Examiners included **Jim Starr, N2TFA**, **Ed Jablonski, KC2YMN**; **Linda Jablonski, KC2YMM**; and **Tomm Dean, KA2NXY**. **John Leitten, KA2RFT** served as "on call" back-up.

## TESTING NEEDS

- Legal photo ID (a driver's license is excellent!)
- Current license and/or CSCE documents, if any, and a non-returnable photocopy of each
- Federal Registration Number (FRN); if none, then Social Security Number (SSN)
- \$15 in cash, check or money order
- Two #2 pencils with erasers, and a pen

[\(more info\)](#)



# CONTEST CALENDAR



## Start and Finish

## Contest Title

## Sponsor's Website

Apr 1, 0200Z - Apr 1, 0400Z	ARS Spartan Sprint	<a href="http://www.arsgrp.blogspot.com">www.arsgrp.blogspot.com</a>
Apr 2, 0100Z - Apr 2, 0230Z	QRP Fox Hunt	<a href="http://www.qrpfoxhunt.org/winter_rules.htm">www.qrpfoxhunt.org/winter_rules.htm</a>
Apr 3, 1700Z - Apr 3, 2000Z	SARL 80m QSO Party	<a href="http://www.sarl.org.za/">www.sarl.org.za/</a>
Apr 4, 0100Z - Apr 4, 0230Z	QRP Fox Hunt	<a href="http://www.qrpfoxhunt.org/winter_rules.htm">www.qrpfoxhunt.org/winter_rules.htm</a>
Apr 4, 0230Z - Apr 4, 0300Z	NS Weekly Sprint	<a href="http://www.ncccsprint.com">www.ncccsprint.com</a>
Apr 4, 1400Z - Apr 5, 0200Z	Mississippi QSO Party	<a href="http://www.arrlmiss.org">www.arrlmiss.org</a>
Apr 5, 0000Z - Apr 6, 2400Z	Worldwide EME Contest	<a href="http://www.dubus.org">www.dubus.org</a>
Apr 5, 0400Z - Apr 5, 0800Z	LZ Open 40 Meter Contest	<a href="http://www.lzopen.com">www.lzopen.com</a>
Apr 5, 1600Z - Apr 5, 2200Z	PODXS 31 Flavors Contest	<a href="http://www.podxs070.com">www.podxs070.com</a>
Apr 5, 1200Z - Apr 6, 2359Z	QRP ARCI Spring QSO Party	<a href="http://www.qrparci.org/contests">www.qrparci.org/contests</a>
Apr 5, 1400Z - See website	Missouri QSO Party	<a href="http://www.w0ma.org">www.w0ma.org</a>
Apr 5, 1500Z - Apr 6, 1500Z	SP DX Contest	<a href="http://spdxcontest.pzk.org.pl">spdxcontest.pzk.org.pl</a>
Apr 5, 1600Z - Apr 6, 1600Z	EA RTTY Contest	<a href="http://concurso.ure.es/en/earthy/">concurso.ure.es/en/earthy/</a>
Apr 5, 1800Z - Apr 6, 0600Z	Montana QSO Party	<a href="http://www.fvarc.org">www.fvarc.org</a>
Apr 6, 1600Z - See website	OK1WC Memorial Contest	<a href="http://www.memorial-ok1wc.cz">www.memorial-ok1wc.cz</a>
Apr 7, 2300Z - Apr 8, 0300Z	VHF Spring Sprints	<a href="http://sites.google.com/site/springvhfupsprints">sites.google.com/site/springvhfupsprints</a>
Apr 8, 0100Z - Apr 8, 0300Z	ARS Spartan Sprint	<a href="http://www.arsgrp.blogspot.com/">www.arsgrp.blogspot.com/</a>
Apr 9, 0030Z - Apr 9, 0230Z	NAQCC Monthly QRP Sprint	<a href="http://naqcc.info">naqcc.info</a>
Apr 9, 1300Z - See website	CWops Monthly Mini-CWT Tests	<a href="http://www.cwops.org/cwt.html">www.cwops.org/cwt.html</a>
Apr 12, 1600Z - Apr 12, 1959Z	EU Spring Sprints	<a href="http://www.eu-sprint.com">www.eu-sprint.com</a>
Apr 12, 0700Z - Apr 13, 1300Z	Japan International DX Contest	<a href="http://jidx.org">jidx.org</a>
Apr 12, 1400Z - Apr 13, 0200Z	New Mexico QSO Party	<a href="http://www.newmexicoqsoparty.org">www.newmexicoqsoparty.org</a>
Apr 12, 1800Z - See website	Georgia QSO Party	<a href="http://www.georgiagsoparty.org">www.georgiagsoparty.org</a>
Apr 12, 2100Z - Apr 13, 2100Z	Yuri Gagarin DX Contest	<a href="http://gc.qst.ru/en">gc.qst.ru/en</a>
Apr 13, 1200Z - Apr 13, 1800Z	International Vintage Contest	<a href="http://contestvintage.beepworld.it/rules-2012.htm">http://contestvintage.beepworld.it/rules-2012.htm</a>
Apr 13, 1200Z - Apr 14, 2359Z	Straight Key Weekend Sprintathon	<a href="http://www.skccgroup.com">www.skccgroup.com</a>
Apr 13, 1500Z - Apr 13, 1700Z	Hungarian Straight Key Contest	<a href="http://hskc.ha8kux.com/">hskc.ha8kux.com/</a>
Apr 15, 2300Z - Apr 16, 0300Z	VHF Spring Sprints	<a href="http://sites.google.com/site/springvhfupsprints">sites.google.com/site/springvhfupsprints</a>
Apr 17, 0001Z - Apr 22, 2359Z	Lighthouse Spring Lites QSO Party	<a href="http://arlhs.com">arlhs.com</a>
Apr 18, 2100Z - Apr 19, 2100Z	Holyland DX Contest	<a href="http://www.iarc.org/iarc/#HolylandContest">http://www.iarc.org/iarc/#HolylandContest</a>
Apr 19, 0000Z - Apr 19, 2359Z	TARA Skirmish Dig Pfx Contest	<a href="http://www.n2ty.org/seasons/tara_dpx_rules.html">www.n2ty.org/seasons/tara_dpx_rules.html</a>
Apr 19, 0500Z - Apr 19, 0859Z	ES Open HF Championship	<a href="http://www.erau.ee">www.erau.ee</a>
Apr 19, 0600Z - Apr 20, 0559Z	Worked All Provinces of China	<a href="http://www.mulandxc.org">www.mulandxc.org</a>
Apr 19, 1200Z - Apr 20, 2359Z	CQ Manchester Mineira DX Contest	<a href="http://www.cqmmdx.com">www.cqmmdx.com</a>
Apr 19, 1600Z - Apr 19, 1959Z	EU Spring Sprints	<a href="http://www.eu-sprint.com">www.eu-sprint.com</a>
Apr 19, 1600Z - Apr 20, 0400Z	Michigan QSO Party	<a href="http://www.miqp.org">www.miqp.org</a>
Apr 19, 1800Z - Apr 20, 1800Z	Nebraska QSO Party	<a href="http://www.qcwa.org/chapter025.htm">www.qcwa.org/chapter025.htm</a>
Apr 19, 1800Z - Apr 20, 1800Z	South Dakota QSO Party	<a href="http://www.w0blk.com">www.w0blk.com</a>
Apr 19, 1800Z - Apr 20, 1800Z	North Dakota QSO Party	<a href="http://www.w0nd.com">www.w0nd.com</a>
Apr 19, 1800Z - See website	Ontario QSO Party	<a href="http://www.va3cco.com">www.va3cco.com</a>
Apr 19, 2000Z - Apr 19, 2200Z	Feld-Hell New Member Sprint	<a href="http://www.feldhellclub.org">www.feldhellclub.org</a>
Apr 19, 2100Z - See website	YU DX Contest	<a href="http://www.yu1srs.org.rs/dl/yudx/yudxmain.html">www.yu1srs.org.rs/dl/yudx/yudxmain.html</a>
Apr 20, 1800Z - Apr 20, 2359	ARRL Rookie Roundup	<a href="http://www.arrl.org/rookie-roundup">www.arrl.org/rookie-roundup</a>
Apr 21, 0200Z - Apr 21, 0400Z	Run For the Bacon	<a href="http://www.fqgrp.org">www.fqgrp.org</a>
Apr 21, 1400Z - Apr 21, 2000Z	Low Power Spring Sprint	<a href="http://www.hamradio.sk">www.hamradio.sk</a>
Apr 23, 2300Z - Apr 24, 0300Z	VHF Spring Sprints	<a href="http://sites.google.com/site/springvhfupsprints">sites.google.com/site/springvhfupsprints</a>
Apr 26, 0001Z - Apr 27, 2359Z	Ten-Ten Spring Digital Contest	<a href="http://www.ten-ten.org">www.ten-ten.org</a>
Apr 26, 1200Z - Apr 27, 1200Z	SP DX RTTY Contest	<a href="http://www.pkrvg.org">www.pkrvg.org</a>
Apr 26, 1300Z - Apr 27, 1259Z	Helvetia Contest	<a href="http://uska.ch/amateurfunkpraxis/contest/info-kw">uska.ch/amateurfunkpraxis/contest/info-kw</a>
Apr 26, 1500Z - Apr 27, 0300Z	QRP to the Field	<a href="http://www.zianet.com/grp/qrp/2013.htm">www.zianet.com/grp/qrp/2013.htm</a>
Apr 26, 1600Z - See website	Florida QSO Party	<a href="http://www.floridagsoparty.org">www.floridagsoparty.org</a>
Apr 27, 1700Z - Apr 27, 2100Z	BARTG 75 Sprint	<a href="http://www.bartg.org.uk">www.bartg.org.uk</a>



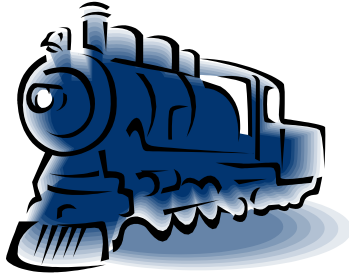

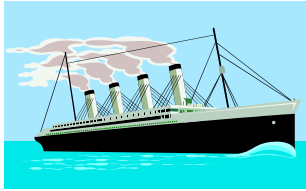


(Control + click to activate a link)



For more information on contests: <http://www.arrl.org/contest-calendar>

# SPECIAL EVENT STATIONS

Full information at: <http://www.arrl.org/special-event-stations>

04/01/2014	OzarkCon		
04/01/2014	SUN n FUN International Fly-In & Expo		
04/02/2014	2014 Preparedness Summit		
04/04/2014	Platoon 382 Hall Dedication Ceremony		
04/05/2014	819 Steam Locomotive		
04/05/2014	Mustang Island On The Air		
04/05/2014	The Dent County Raiders - Missouri QSO Party		
04/11/2014	Georgia QSO Party		
04/12/2014	102nd Titanic Special Event Station		
04/12/2014	74th Anniv. of Bletchley Park (UK) Timely Decrypt of German Enigma Radio Message		
04/12/2014	Anniversary of the Sinking of the Titanic		
04/12/2014	Annual Calico Fort Arts and Craft Festival		
04/12/2014	Bayou Teche Black Bear Festival		
04/12/2014	General Hardee's Retreat		
04/12/2014	USS Midway Decommissioning 1992		
04/19/2014	Grays Harbor ARC Birthday Event		
04/19/2014	Old Greenville Black Powder Rendezvous Special Event Station		
04/19/2014	Our 2nd annual Earth Day event. Powered only by the sun		
04/19/2014	Schweitzer Engineering Laboratories 30th Anniversary		
04/19/2014	SPARC 45th Anniversary		
04/25/2014	Earth Day from Earth, TX		
04/25/2014	Jackson, MO Bicentennial Special Event Station		
04/26/2014	Boy Scouts of America Lincoln Trail Hike		
04/26/2014	Cape Cod Mini Maker Faire - Radio Demo		
04/26/2014	Commemorating the Life & Heroic Actions of RR Engineer John Luther (Casey) Jones		
04/27/2014	Two Modern Popes Now Saints		

## USEFUL INTERNET LINKS

(control + click to use link)

<b>ARRL MAIN SITE:</b>	<a href="http://www.arrl.org/home">http://www.arrl.org/home</a>
<b>ARRL ATLANTIC DIV.:</b>	<a href="http://www.atldiv.org">http://www.atldiv.org</a>
<b>CONTESTS:</b>	<a href="http://www.arrl.org/contest-calendar">http://www.arrl.org/contest-calendar</a>
	<a href="http://www.hornucopia.com/contestcal/perpetualcal.php">http://www.hornucopia.com/contestcal/perpetualcal.php</a>
<b>HAMFESTS:</b>	<a href="http://www.arrl.org/hamfests-and-conventions-calendar">http://www.arrl.org/hamfests-and-conventions-calendar</a>
<b>STARS REFLECTOR:</b>	<a href="http://groups.yahoo.com/group/STARS-WB2ELW/">http://groups.yahoo.com/group/STARS-WB2ELW/</a>
<b>TELSTAR EDITOR:</b>	<a href="mailto:wb2elw@verizon.net">wb2elw@verizon.net</a>

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# Speaker for March mtg

## EXTRA CREDIT

So, you think you know all about amateur radio. Well, here's an actual question that appears on the Extra examinations. It was recently covered in the Extra class underway at the Nike Base Radio Clubhouse.