telstar



THE NEWSLETTER OF STARS (SOUTH TOWNS AMATEUR RADIO SOCIETY)

OCTOBER 2015

VOL 49 Issue 2



PUMPKIN PATROL COMING



On Halloween in 1976, Katherine St. Jacques was talking to a truck driver on her citizens band radio when the windshield of his vehicle was struck by an object thrown from an overpass. The driver was injured from the broken windshield. St. Jacques and two companions decided to stand watch on the three Thruway overpasses in the Fort Johnson area.

The Pumpkin Patrol was born. Now run by the New York State Police, volunteer citizen radio operators stand by Thruway bridges on October 30th and 31st. Any unusual activities will be reported to Troop T.

If you would like to participate in this valuable activity on one or both of the days, your assistance would be appreciated. Participants receive a colorful certificate from the NYSP.

To be a part of this, contact the local project coordinator, Linda Jablonski, KC2YMM at lindajadnil@aol.com. Or, better yet, come to an informational meeting about the Pumpkin Patrol by the State Police. It will be part of the Erie County ARES/RACES meeting at 7:30 PM on Monday, October 12th, at the Erie County Fire Training Academy, 3359 Broadway, just east of Union Road, Cheektowaga.

NOMINATIONS DUE FOR OFFICERS

It's that time of the year, again!

At the October 1st meeting of **STARS**, all members in good standing are invited to submit names for nomination to the offices of **STARS**.

Those nominated will be voted upon in the annual election, to take place at the meeting on November 5^{th} .

NO CHARGE FOR VANITY CALLS

Effective September 3rd, the Federal Communications Commission no longer charges for the issuance of a vanity call sign.

They claimed the prices charged were much more than adequate for the process, leaving excess funds.

If you want a vanity call, act quickly - requests have increased dramatically!

☆☆

CLUB OFFICERS

President Ken Pokigo, KC2AYK

Vice President Scott Barto, KB2KOL

Secretary Mettieirene Wagner, KD2DFQ

Financial Sec'y Judy Levan, N2TEZ

Treasurer John Leitten, KA2RFT

Director (1 yr.)

Jon Hall, KC2QKB

Director (2 yr.) Conrad Barrick, KC2WRY

Clubhouse Chair Pat Groom, KC2VWG

Telstar Editor Tomm Dean, KA2NXY

Webmaster Don Niles, K2PMC

BLUE AND UNDERLINED

When you see something in *Telstar* in blue letters and underlined, that means it is an Internet link. Hold the "Control" key and click on the link to open.

Try it! sample link (control + click)

NEXT MEETING SPEAKER AND TOPIC

Did you ever take a close look at your utility bills? If so, you may have noticed a series of extra fees and taxes appearing at the bottom.

A further look will show that in addition to the actual product you use, there are also costs for the transportation of that product to your location.

However, there is one energy source that charges no taxes, no fees, no delivery charges, and, no cost for the product. That product is solar energy!

Join us on October 1st as **David Tinkham**, **K2ECK**, presents "Solar Systems".

HE GOOFED



We take pried in getting things rite. If ewe sea sum thing that is knot correct, lettuce no at:

wb2elw@verizon.net

STARS MEETINGS

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★ STARS meetings are usually at 7:00 PM on the
 ★ first Thursday of each month, at the Hamburg
 ★ Memorial Youth Center, 200 Prospect Avenue
 ★ (near Hawkins Avenue) in Hamburg.

This month's meeting will be **October 1st**, at 7:00 Mark PM, at the Hamburg Memorial Youth Center.

All are welcome,

The STARS board usually meets at 7:00 PM on the fourth Thursday of each month at the Nike Base Radio Clubhouse, just west of the Hamburg Town Arena, 2982 Lakeview Road, Hamburg.

This month, the board will meet on **October 22nd**the Nike Base Radio Clubhouse.

All members are welcome.

CLUB NETS

Tuesdays 7:30 PM 147.09 MHz (repeater)

(Input 147.69 MHz, CTCSS 88.5 for

Hamburg or 107.2 for Colden)

Saturdays 10:00 AM 3.925 MHz +/- QRM

REMEMBERING OUR SILENT KEYS

STARS has been around for quite a while. We're grateful for all the things we have in the club, including the Nike Base Clubhouse and all its radio equipment. We're grateful for the repeaters, wi-fi, and IRLP capabilities.

But, lest we forget, **STARS** was built through a lot of effort from many members over the years. Some of those members, who have made significant contributions to **STARS**, are now Silent Keys.

Scott Barto, KB2KOL, has asked *Telstar* to honor those who have come before, and gone to that great radio shack in the universe. He suggested that we include a reflection of an influential Silent Key in each issue. Toward that goal, if there is a Silent Key that you remember, send the name, call sign, and your memories. Photos, if available, are appreciated.

wb2elw@verizon.net

HAMFESTS

10/18 Conneaut ARC Hamfest

Location: Conneaut American Legion Hall

272 Broad Street Conneaut, OH

Sponsor: Conneaut Amateur Radio Club

Website: http://www.facebook.com/W8BHZ

10/25 Massillon ARC Hamfest

Location: Massillon Boy's & Girls Club

730 Duncan Street SW

Massillon, OH

Sponsor: Massillon Amateur Radio Club

Website: http://www.w8np.org

(control + click on name for full information)

TWINKLING STARS

Frank Modzelewski, WG2H

(submitted by Scott Barto, KB2KOL)

Frank "The Barber" Modzelewski, WG2H, was a former financial secretary for STARS. He was a tireless worker in his career, rarely taking a day off. He had a great sense of humor. He was especially known for his often used quote, "I'm busier than a Porta-Potty at a prune festival."

CLOSINGS ON WIVB

Should poor weather cause any scheduled STARS activity to be cancelled, the closing message will found on WIVB Channel 4 Buffalo.



If multiple closings exist, WIVB will not include all closings on the television

broadcasts; however ALL closings will appear on their website:

www.wivb.com/closings/

STRIKE UP THE BAND

So, we know you can operate sophisticated electronic equipment. Perhaps you also know something about other devices. Specifically, do you play a musical instrument?

If so, there is an effort to find **STARS** members willing to play in a band.

Ray Feness, K2RMF, is a drummer looking for others to play in a STARS band. If interested, contact him at:

rfeness@hotmail.com.

SHOW AND TELL REVEALING

Every year, **STARS** holds a "Show and Tell" meeting, where members can show off some of their favorite and/or offbeat equipment.

Shown below is a "Raspberry Pi" computer. The size of a cigarette pack deck of cards, it has many uses. One is currently in use for the repeaters at the Nike Base Radio Clubhouse.



Scott Barto, KB2KOL, shows off his creation. No, it is not a plumbing tool, but rather a device designed to assist in placing antennas in the treetops. Made of PVC piping, it uses compressed air to fire torpedolike projectiles with fishing line for antenna stringing functions. Yes, the torpedoes are also made from PVC pipes.



Joe Claus, KB2JDB, brought two items. One was a list of recommended items for a "Car Survival Kit". The list can be found on page 5 Of this issue.

The other item appears to be a garbage can. However, it is an EMP Shield. It is designed to prevent damage to electronic equipment from an EMP (electromagnetic pulse), possible from nuclear bombs.

More information about EMPs and these shields can be found at: http://empactamerica.org/.



Joe Kurcz, KD2FZD, brought in a piece of his handiwork. It is a home-built variable power supply, complete with meters for current and voltage.



NYS QSO PARTY SET FOR OCTOBER 17th

STARS intends to continue the tradition of working the **NYS QSO Party** on Saturday, October 17th. The Clubhouse will be open as a base of operations for the contest, which begins at 10 AM (1400Z) and ends at 10 PM (0200Z).

The objective of the contest is to work as many New York State counties as possible. In addition, operators inside New York will earn points for contacts with all other non NYS operators.

If you are new to amateur radio, this is an excellent opportunity to see other amateurs operate, or operate yourself. It can be a valuable learning event.

To streamline QSOs and logging, STARS has been issued the special call sign "W2E" for the event.

So come on down, and let's see if we can be heard.

More info at:

http://nyqp.org/wordpress/

STARS 2015 GOALS

STARS LOTS BOALS	
Upgrade WB2ELW website	
Install an IRLP node	
Implement UHF repeater	
Install a satellite antenna	
Complete N1MM linking	
Rebuild antenna interface box	
Offer several monthly programs	
Conduct a "Homebrew Build Project"	
Participate in Field Day	
Participate in the NYS QSO Contest	
Participate in additional contests	
Conduct 1 major fundraiser	
Participate in Hamburg's Burgerfest	

CAR SURVIVAL KIT

With winter approaching, it's a good time to check your car for necessary items for the unexpected.

Joe Claus, KB2JDB, offers this "Car Survival Kit" list:

CAR:	Date:
BAG:	Version:
COVER	
	Blanket; Cloth blanket (car)
Rain Po	
Hats / g	
Trash B	
FOOD - WA	ATER
Food /	snacks
Water	
Cups	
Sporks	
TOOLS	
Compa	SS
Duct Ta	
Can Op	•
	tool / Knife / Scissors
Saw	
Para co	rd
	cables (trunk)
Tow ro	
	s and gloves (trunk)
Distress	s flag / caution tape (trunk)
LIGHT - HE	AT
Lighter	/ Fire starter / matches
Campin	g candles
	ht, batteries (and car)
Light St	
Road Fl	ares (trunk)
соммо	
Pen / N	otebook / Money
AM-FM	WX Radio
Whistle	
	idio (car) / Family Radios (pack)
Phone	Chargers in First Aid; cables in ca
Green S	Signal Laser
HEALTH	
Wet wi	pes / hand sanitizer
lodine ⁻	Tablets / filter (First Aid Kit)
	leds (First Aid)
	pellent / Sunscreen
	d Kit w/cell charger
N95 Fac	
AP (Toi	et Paper)



I had some time on my hands so I thought I would put together some random thoughts about antennas and feed lines.

As many of you know, I've been an advocate of balanced feed lines for many years. They give you the freedom to use a single wire on several bands, and, with good overall efficiency. As I've said in one of my previous articles, balanced feeders are good but there are some things you should keep in mind.

Let's look at one of them...

When you put your antenna up, immediately take SWR measurements for all the bands on which you plan to operate. No tuner, just a piece of coax from your balun to your antenna analyzer. If you don't have an analyzer, buy one. Or, make sure your best friend has one that you can borrow at a moment's notice. Your journey into the world of antennas will be much more rewarding (and less frustrating) with one. Don't be too concerned about the SWR, unless it is really high. What is really high? If you're seeing 15 to 1 or more, something is not right.

This brings to mind a situation that occurred not too long ago at the clubhouse. We were attempting to get some settings on the antenna tuner to record so that when switching bands the operator had a starting point for the L/C network in the tuner. We were shocked when an SWR of 25+ popped up in the analyzer meter display on 160 and 80 meters. After some head scratching I realized the problem was not with the antenna but with the analyzer. I had run across this problem before. But, it was many years ago and I had forgotten about it.

I found the answer on page 2 of the MFJ manual, under the heading "Measurement Errors". Item 1 states, "Signal ingress from external RF sources, usually strong AM broadcast stations."

Our 160M dipole sitting up there at 80' has a bird's eye view of those massive WWKB 50KW towers, operating only about 300khz below. And, the second harmonic of WWKB falls really close to the 80M band. Lesson learned; you cannot use an analyzer at our clubhouse on 160 or 80 meters.

But I digress. Record your readings and store them in a safe place. They will provide a very important frame of reference in the future.

Okay, so now you wonder, "Why do I have to do this when I have an antenna tuner that will tune almost anything?" My answer is that's exactly why you need to make a record of them. The day may come when you begin to question whether your antenna is working as well as it did. Maybe the reports you're getting don't seem as good as they once were. Or, maybe the DX station you called didn't hear you. But, looking at your tuner, everything looks great. Remember what I said before, your tuner will tune almost anything.

So, if and when you have doubts, pull out the sheet of paper upon which you wrote those readings way back when. Hook your analyzer and a piece of coax to your balun and start comparing. The readings should be almost, maybe not exactly, but almost the same as they were before. If they aren't you know you've got a problem in your antenna system.

That's enough for now and I will see you next time!



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.)

HAM RADIO CLASS

Get your HAM Radio License

Topics Include:

- Radio Waves & Signals
- Electrical Laws, Power, & the Metric System
- Electronic Components & Radio Circuits
- Propagation, Antennas & Feed Lines
- Basic Amateur Radio Station Equipment
- Power Sources & Interference
- Communicating With Other HAMs
- Voice, Code, Text, Video & Digital Modes
- Call Signs, License Regulations & Privileges
- Safety & Amateur Radio
- Test Preparation
- Final Class Test for Technicial & General Licenses



Wednesday Nights Starting October 7th

6:00 - 9:00 PM

EMPact America Offices

6 to 7 Consecutive Weeks
Test date to be announced

Class is FREE, but

ARRL Course Book - \$25.00
Payment for Book is due on 1st day of class

ARRL VE Test Fee - \$15.00

Payment for Test is due on test day
The test will be offered for all classes of licensee
including Technician General and Extra

EMPact America

7615 Seneca Street East Aurora, NY 14052 716-435-7873

Register online at

www.EMPactAmerica.org/ham





AREA EXAM SITES

10/03/2015 **Jamestown**

Sponsor: CARSC

Location: Prendergast Library

509 Cherry Street 2nd fl conf rm

Time: 2:00 PM (Walk-ins allowed)

10/03/2015 North Tonawanda

Sponsor: ARA of the Tonawandas

Location: North Tonawanda Fire Headquarters

495 Zimmerman Street - Training Rm

Time: 10:00 AM (Walk-ins allowed)

10/13/2015 <u>Niagara Falls</u>

Sponsor: Niagara Radio Club, Inc.
Location: Venture Forthe, Inc.

3900 Packard Road

Time: 6:30 PM (Walk-ins allowed)

10/17/2015 <u>Erie PA</u>

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)

10/20/2015 Meadville PA

Sponsor: Crawford ARS

Location: St Brigid Church Social Hall

383 Arch Street

Time: 6:30 PM (No walk-ins)

10/21/2015 <u>Lyons</u>

Sponsor: Drumlins ARC

Location: Wayne Co Office of Emergency Mgmt

7336 State Route 31

Time: 7:00 PM (Walk-ins allowed)

(no fee charged)

10/25/2015 Geneseo

Sponsor: Genesee Valley ARA

Location: Livingston County Government Center

2 Court Street Rm 205

Time: 5:30 PM (Walk-ins allowed)

(control-click on City for more info)

TESTING RESULTS

STARS held amateur radio license examinations at the Hamburg Youth Center on September 19th.

Three candidates earned new credentials.

David Brenner KD2J?? Technician
John King KD2J?? Technician
Nathaniel Tucker KD2J?? Technician

The STARS VE team included Conrad Barrick, KC2WRY; Thomas Dean, KA2NXY; Ray Feness, K2RMF; Greg Hoerner, AC2MO; Earl Kipler, W2EBK; and John Leitten, KA2RFT (on call);

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
- Calculators are permitted as long as any programming has been cleared.

(more info)

CONTEST CALENDAR

Start and Finish Contest Title Sponsor's Website

Weds 0230Z - 0300Z Phone Fray www.perluma.com/Phone Fray Contest Rules.pdf CWOps Weekly Mini-CWT Tests Weds 1300Z - See web www.cwops.org/cwt.html QRP Fox Hunt 0100Z - 0230Z Fridays http://www.grpfoxhunt.org/summer rules.htm 0145Z - 0215Z NS Weekly RTTY Sprint www.ncccsprint.com Fridays, 0230Z - 0300Z NS Weekly Sprint www.ncccsprint.com Fridays, Oct 1, 1700Z - Oct 1, 2000Z SARL 80 Meter QSO Party www.sarl.org.za Oct 1, 1700Z - Oct 1, 2100Z NRAU 10 Meter Activity Contest www.nrau.net/activity-contests Oct 2, 1400Z - Oct 4, 0200Z YLRL YL Anniversary Contest http://ylrl.org/index.php 15-Meter SSTV Dash Contest Oct 3, 0000Z - Oct 4, 2359Z http://contests.wsstvc.org/rules Oct 3, 0000Z - Oct 3, 2359Z TARA PSK Rumble Contest www.n2ty.org www.agcw.org/index.php/en Oct 3, 0700Z - Oct 3, 1000Z German Telegraphy Contest Oct 3, 0800Z - Oct 4, 0800Z Oceania DX Contest, Phone www.oceaniadxcontest.com Oct 3, 1200Z - Oct 4, 1159Z Russian WW Digital Contest www.rdrclub.ru Oct 3, 1200Z - Oct 4, 1200Z TRC DX Contest www.trcdx.org/trcdxc/index.html www.cqp.org/Rules.html Oct 3, 1600Z - Oct 4, 2200Z California QSO Party Oct 3, 1600Z - Oct 4, 1100Z International HELL-Contest www.darc.de Oct 3, 1700Z - Oct 3, 2100Z FISTS Fall Slow Speed Sprint http://fistsna.org/operating.html#sprints Oct 3, 1700Z - Oct 3, 2100Z 4 State 4x4 QRP Sprint www.4sqrp.com Oct 3, 1900Z - Oct 4, 1900Z WAB HF Phone http://wab.intermip.net Oct 4, 0600Z - Oct 4, 1000Z UBA ON Contest, SSB www.uba.be/en/hf/contest-rules Oct 4, 0700Z - Oct 4, 1900Z RSGB 21/28 MHz Contest www.rsgbcc.org/hf Oct 6, 0100Z - Oct 6, 0300Z ARS Spartan Sprint www.arsqrp.blogspot.com Oct 7, 1900Z - Oct 7, 2300Z 432 MHz Fall Sprint http://svhfs.org Oct 7, 2000Z - Oct 7, 2100Z **UKEICC 80m Contest** www.ukeicc.com/which-contest/ Oct 10, 0000Z - Oct 11, 1559Z Makrothen RTTY Contest home.arcor.de/waldemar.kebsch www.ten-ten.org/index.php/activity Oct 10, 0001Z - Oct 10, 2359Z 10-10 Int. 10-10 Day Sprint Oct 10, 0700Z - Oct 10, 1400Z Microwave Fall Sprint http://svhfs.org Oct 10, 0800Z - Oct 11, 0800Z Oceania DX Contest, CW www.oceaniadxcontest.com Oct 10, 1200Z - Oct 11, 1200Z Scandinavian Activity Contest SSB www.sactest.net/blog/rules Oct 10, 1200Z - Oct 11, 2359Z QRP ARCI Fall QSO Party www.qrparci.org/contests Oct 10, 1200Z - Oct 11, 2359Z SKCC Weekend Sprintathon www.skccgroup.com Oct 10, 1600Z - Oct 11, 2200Z Pennsylvania QSO Party www.nittany-arc.net Oct 10, 1600Z - Oct 11, 2359Z Arizona QSO Party www.azqsoparty.org Oct 10, 1700Z - Oct 10, 2100Z FISTS Fall Unlimited Sprint www.fistsna.org Oct 10, 2000Z - Oct 11, 0200Z PODXS 160m Great Pumpkin Sprint www.podxs070.com www.uba.be/en Oct 11, 0600Z - Oct 11, 0900Z UBA ON Contest, CW Oct 14, 0030Z - Oct 14, 0230Z NAQCC CW Sprint http://nagcc.info/sprint201510.html Oct 14, 1900Z - Oct 14, 2000Z RSGB 80 Meter Club Sprint, CW www.rsgbcc.org/hf Oct 17, 0000Z - Oct 18, 2359Z JARTS WW RTTY Contest http://jarts.jp/rules2015.html Oct 17, 0001Z - Oct 18, 2359Z 10-10 Int Fall Contest, CW www.ten-ten.org Oct 17, 1400Z - Oct 18, 0200Z New York QSO Party http://nyqp.org/wordpress Oct 17, 1400Z - Oct 17, 2300Z Iowa QSO Party www.wa0dx.org/IAQSO Oct 17, 1500Z - Oct 18, 1500Z Stew Perry Topband Challenge www.kkn.net/stew Oct 17, 1500Z - Oct 18, 1459Z Worked All Germany Contest www.darc.de Oct 17, 1700Z - Oct 19, 0300Z Telephone Pioneers QSO Party www.tpgso.com Oct 17, 1800Z - Oct 18, 1800Z South Dakota QSO Party www.kb0wsw.com/SDQP Oct 17, 2000Z - Oct 17, 2159Z Feld Hell Sprint http://sites.google.com/site/feldhellclub Oct 18, 0000Z - Oct 18, 0200Z Asia-Pacific Fall Sprint, CW http://jsfc.org/apsprint/aprule.txt Oct 18, 0600Z - Oct 18, 1000Z UBA ON Contest, 2 Meters www.uba.be/en Oct 18, 1700Z - Oct 19, 0100Z Illinois QSO Party www.w9awe.org/ILQP.html Run for the Bacon QRP Contest Oct 19, 0100Z - Oct 19, 0300Z http://fpgrp.org/pigrun Oct 19, 1300Z - Oct 23, 2359Z ARRL School Club Roundup www.arrl.org/school-club-roundup CQ Worldwide DX Contest SSB Oct 24, 0000Z - Oct 25, 2359Z www.cqww.com/rules.htm Oct 28, 0000Z - Oct 28, 0200Z SKCC Sprint www.skccgroup.com Oct 28, 2000Z - Oct 28, 2100Z UKEICC 80 Meter Contest www.ukeicc.com/which-contest Oct 29, 1900Z - Oct 29, 2000Z RSGB 80 Meter Club Sprint, SSB www.rsgbcc.org/hf Oct 31, 0000Z - Oct 31, 2359Z Feld Hell Sprint http://sites.google.com/site/feldhellclub Oct 31, 0000Z - Nov 1, 2359Z ARRL EME Contest www.arrl.org/eme-contest Russian WW MultiMode Contest Oct 31, 1200Z - Nov 1, 1159Z www.rdrclub.ru

(control +click to activate a link)

For more information on contests: $\underline{\text{http://www.arrl.org/contest-calendar}}$

SPECIAL EVENT STATIONS

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

9/19 - 10/17 K2B. BankHead Military Vehicle Convoy On-The-Air Special Event

also K2C, K2D, K2E, K2F, K2G, K2H, K2M, K2P, K2V, K2Y & N4N,

10/2 - 10/3 W0R **Environmental Learning Center**

10/03 - 10/4 W7D 100th Anniversary of Dinosaur National Monument

10/03 - 10/11 W₅B Albuquerque International Balloon Fiesta

10/03 - 10/4 KS6HRP California Capital Airshow

10/03 NA4CC Commemoration of The Battle of Kings Mountain

10/03 - 10/4 K4C Currahee Military Weekend

10/03 - 10/4 K4L Lincoln Days at the Hometown of Abraham Lincoln's Birth

10/03 - 10/4 NE0QP Nebraska Rare County Activation

10/04 WX0BC National Fire Prevention Week, Columbia, MO

10/10 NI6IW Battle of Leyte Gulf Special Event 10/10 K₀D Camp Hope BBQ Cook-off

10/10 W5I

Eisenhower's Birthday Special Event Station 10/10 - 10/11 W0D Lester Dent / Doc Savage Mysters Special Event

10/10 - 10/18 **N8W & W8W** National Wildlife Refuge Week 2015 / Seney & Whitefish Point

10/10 W4CA Virginia Blue Ridge Parkway Bonanza

Warren Fall Festival W1W 10/10 - 10/11

10/10 W8Y Zanesville World Famous Y-Bridge

10/11 - 10/12 W5T Train Mobile on the AMRAILROAD

10/15 - 10/26 K8H Rail Road Days

10/16 - 10/18 K5B BSA Jamboree on the Air 2015 10/16 - 10/18 W0M. US Coast Guard Auxiliary 76th Anniversary

also W1H, W2K, N3G, K4C, N4U, N4Z, K6T, N6Z, N7B, N7Z & W7H

10/17 - 10/18 N₁D Dempsey Challenge Bicycle Race

10/17 - 10/25 K8H Hinton Rail Road Days

10/17 K4RC Historic Yorktown Special Event Station

10/17 WE7GV Juan Bautista de Anza Davs 10/17 W2S Troop 104 73d Anniversary 10/19 - 10/25 K0W Sunbelt Agricultural Exposition

10/24 - 10/25 W0W Wedding of the Waters - Father Crowley Celebration

10/26 - 10/31 K4H Halloween special event

10/30 W0YFZ Anoka Halloween Capitol of the World 4th Annual Special Event Station

10/30 - 11/1 N4A Stuart Air Show

W0JH 10/31 - 11/1 Remembering the Edmund Fitzgerald (Split Rock Lighthouse)

USEFUL INTERNET LINKS

(control + click to use link)

ARRL MAIN SITE: http://www.arrl.org/home

ARRL ATLANTIC DIV.: http://www.atldiv.org

http://www.ar<u>rl.org/contest-calendar</u> CONTESTS:

http://www.hornucopia.com/contestcal/perpetualcal.php

HAMFESTS: http://www.arrl.org/hamfests-and-conventions-calendar

STARS REFLECTOR: http://groups.yahoo.com/group/STARS-WB2ELW/

STARS WEBSITE: http://www.wb2elw.net

TELSTAR EDITOR: wb2elw@verizon.net