

## **REPEATERS**

W8BAP/R 146.850 - 600K

W8BAP/R 146.925 - 600K

W8BAP/R 444.425 + 5M

## **PACKET**

W8BAP 145.630

## **NETS**

SVARC -146.850 Mondays @ 8:30pm

OSSBN 3.972.5 @10:30am, 4:15pm, 6:45pm

COTN +147.24 @ 7:15pm Daily

SSTV -146.850 1st Monday each Mnth@ 9:00pm

-145.490 1st Sunday each Mnth@ 7:00pm

SkyWarn -146.760 or -146.925 When Needed

## **NET CONTROLLERS**

MONDAY EVENING NET

1st - John KC8FPU or Jim WB8NNJ

2nd - Alan AA4ZI, 3rd - Marv K8KX, 4th -vacant

Slow Scan TV Net 1st Monday each month

## **SVARC OFFICERS**

President: Wib Cartwright WA8PZJ sk

Vice-president: Marv Turner K8KX

Secretary: Dave Harding KB8ZGQ

Treasurer: Jim Anzelmo WB8NNJ

Trustee: John Mand KC8FPU

Trustee: Don Berry N8LSV

Trustee: Wayne Cook KA8PQC

## **MEMBERSHIP INFORMATION**

Jim Anzelmo WB8NNJ

1304 Randall Ct., Chillicothe, OH 45601

## **NEWSLETTER STAFF**

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send E-mail to [KC8FPU@HOTMAIL.COM](mailto:KC8FPU@HOTMAIL.COM)

# **Scioto Valley Amateur Radio Club**

November Volume 43, Issue 11

John Mand KC8FPU

33 LedgeWood Dr.

Chillicothe, OH 45601

## **SVARC Monthly Gatherings**

Regular Meeting 3rd Thursday

of the month: 11-15-2001

Social Night 1st Thursday

of the month: 12-06-2001

mailing label

## **SVARC UPCOMING EVENTS**

Fruit Cake Sale December

Christmas Party December 8

## **BIRTHDAY HAMS**

Please wish our members another happy and prosperous year as they celebrate the anniversary of their birth this month. May they enjoy good health and conversations via radio for many years to come. **73 to all!**

## **November Birthdays**

11	KB8ZGR	Michael	Leach
18	WB8DRJ	Joe	Malone
23	KB8IIH	Chris	Kemper
24	W8JKS	John	Smart
28	KC8LWR	Sylvia	Mand

## **REMINDER**

Club meeting starts at 7:30 pm  
Social night starts at 6:00 pm

## **Annual SVARC Christmas Dinner**

Plan to attend the annual SVARC Christmas dinner. It will be held at the Waverly Ponderosa Saturday December 8, @ 1:00pm. It has not been decided if there will be a gift exchange.

## **HAMFESTS** From the ARRL web site

<b>SPONSOR</b>	<b>LOCATION</b>	<b>DATE</b>	<b>CONTACT</b>	<b>Call</b>	<b>P/Number</b>
Massillon ARC	Canton, OH	10-28-01	Terry	N8ATZ	330-837-3091
DIAL Radio Club	Middletown	01-12-02			
Tusco ARC	Dover	01-27-02			
InterCity ARC & MASER	Mansfield	02-10-02			
Toledo Mobile Radio Assoc	Maumee	03-17-02			
Lake County ARA	Madison	03-24-02			

If there are any others you know send them to me and they will be added to the list.

## **INTERNET SITES**

LCARA Web page [www.qsl.net/lcara](http://www.qsl.net/lcara)  
ARRL Great Lakes Division WebRing & Amateur Radio Portal  
[www.MrRace.com/ARRL](http://www.MrRace.com/ARRL)  
National Club [www.arrrl.com](http://www.arrrl.com)  
Ohio Area Repeater Council [www.oarc.com](http://www.oarc.com)  
Amateur Radio Supply [www.aesham.com](http://www.aesham.com)  
Ham Call Book [dasher.buck.com](http://dasher.buck.com)  
Towers, plus [championradio.com](http://championradio.com)  
Good Site [www.w5yi.org](http://www.w5yi.org)  
Links to Sites [www.qyh.com](http://www.qyh.com)  
Frequency Finder [www.perconcorp.com](http://www.perconcorp.com)  
Nice Homepage: [www.melard.com](http://www.melard.com)  
Radio Mods: [www.mods.dk](http://www.mods.dk)  
Doppler Radar:  
[www.nws.noaa.gov/radfiles.html](http://www.nws.noaa.gov/radfiles.html)  
Amateur Television: [www.hamtv.com](http://www.hamtv.com)  
Slow Scan TV: [www.siliconpixels.com](http://www.siliconpixels.com)  
Space News: [www.spaceweather.com](http://www.spaceweather.com)  
SkyWarn National: [www.skywarn.net](http://www.skywarn.net)  
SkyWarn Cntrl OH: [www.severe-weather.org](http://www.severe-weather.org)  
**SVARC: [www.qsl.net/w8bap](http://www.qsl.net/w8bap)**

## **TRADING POST**

Nothing this month

# SVARC MEETING MINUTES

**September 20, 2001**

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Meeting called to order by Marv K8KX at 7:30 pm.

Jim WB8NNJ will conduct a VHF Slow Scan training session this fall if three or more people are interested. Sunday would be his best time. He said you would enjoy it. It is fun. Look for the information in the newsletter.

Vistor -- Tom Weaver K8TW. Welcome Tom

Motion to accept the minutes as printed in the newsletter by Dick WB8GZL and 2nd by Jack N8ZOQ. Motion Carried.

Jim also stated he would demonstrate the newer modes if he could get enough people interested.

## **Repeater Committee:**

Given by Dick WB8GZL - 440 up and running. Ross Hatfield, Bill Deane, John Hartman and Dick worked all one day to get it working.

## **(Entrance Cable Battle Continues....)**

Marv K8KX reported on the Fish Fry. Jim WB8NNJ and Marv stated it was good, went fast and sold fish.

Jim WB8NNJ -- 2meter working and packet running.

## **New Business:**

Picnic will the 22nd of September.

## **Building Committee:**

Tree needs to come down. It may hit the building and take out the antennas.

Marv K8KX There is no participation with the Monday night net. Fire up those radios.

Dick WB8GZL - motion to have Marv arrange to have the tree taken down and \$300.00 placed in building fund. 2nd John KC8FPU. Motion carried.

Christmas Party. Dick will check on a room at the Waverly Ponderosa. Dates - December 1st, 8th, 15th. It will be one of those dates with the 8th as our first choice and the 15th the second choice. It will start at 1:00pm.

K8KX mowed the grass -- Thanks Marv.

Discussion of Fruit Cakes. Marv will make an order.

## **Entertainment Fund:**

\$4.00 has disappeared from the change cup.

50/50 Dick \$5.00 for Dick and \$5.00 for the club.

**Old Business** -- John KC8FPU Newsletter printing cost. He has checked with three other printers and their costs range from \$30.00 to 40.00 per month. We are paying \$22.07.

Motion to adjourn John KC8FPU and 2nd by Betty WB8GZM.

Betty WB8GZM informed the members that a request may be made to Mead Corp. and they will give one donation of paper per year. John Hartman knows the right person to contact.

# SVARC TREASURER REPORT

October 18, 2001

At the October meeting there was only six members present. since our constitution calls for a minimum of seven for a quorum. Therefore no business was conducted. Please try to attend the next meeting this Thursday November 15. We need to appoint an auditing committee. The books have not been audited for 2 years. Also we need to appoint the nominating committee for the 2002 officers.

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## X-Files & Morse Code

Morse Code to be featured on upcoming X-Files episode, Rob Ginkowski WA6CW, of Hollywood, California, served as a technical adviser to The X-Files star Robert Patrick for an upcoming episode. Patrick's character, John Doggett, was in a hospital bed, paralyzed, and was required to send a Morse code message by tapping his index finger. WA6CW (who also works as an actor) taught Patrick how to tap out the message at about 5 WPM. "He was a fast learner," Ginkowski commented. No word on what the message was, but it might be, "The truth is out there." The episode, entitled "4-D," is scheduled to air Sunday, December 9, on the Fox TV Network.

ARRL Letter Vol. 20, No. 44, November 2, 2001

## FRUIT CAKE SALE

Holiday Fruit Cakes have been ordered. This year we will be offering a 1-1/2 lb and a 1 lb cake. This year the 2-1/2 lb cakes are not available. Due to the passing of Wib WA8PZJ, I could use some help!

Marv K8KX

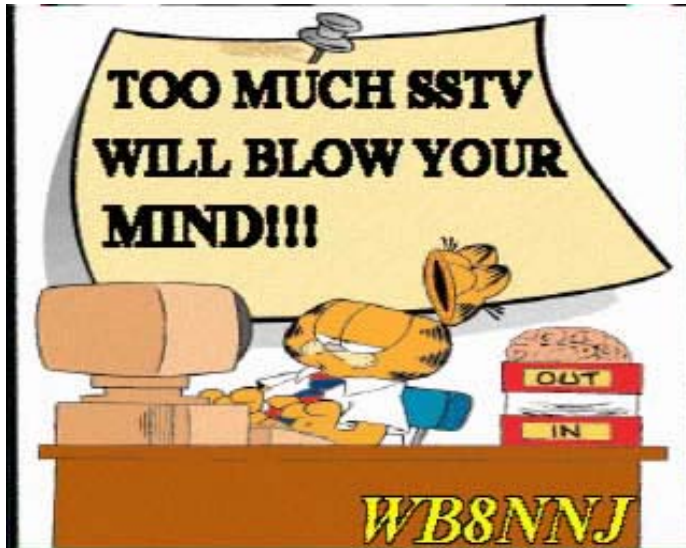
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"No wonder you're sick. Nobody actually eats fruitcake."



## 'tis the Season for Auroras

Autumn is a good time to spot Northern Lights, and scientists would like to know why.

**October 26, 2001:** Last Sunday, Oct. 21st, a cloud of magnetized gas from the Sun (a "coronal mass ejection") swept past Earth and rocked our planet's magnetic field. Northern sky watchers were delighted as red and green lights rippled across the sky. It was the aurora borealis -- breaking out for the third time this month.

"The auroras were probably the most spectacular I have ever witnessed," says Ryan Kramer, an observer in North Dakota. "It was like being under a giant canopy. Northern Lights filled the sky -- including directly above and even within 30 degrees of the southern horizon."

"I was amazed that the auroras were so bright to the *south* of me," agreed Todd Carlson, who enjoyed the spectacle from his home in Ontario, Canada. Indeed, before the storm was done, observers as far south as the Carolinas in the United States had caught a rare glimpse of Northern Lights. It was a good time to be outside.

Indeed, it may have been the *best* time: Autumn nights are long and dark, but not yet wintry-cold -- a good combination for sky watching. But there's more to it than that, say researchers. Geomagnetic storms that ignite auroras actually happen more often during the months around the equinoxes -- that is, early Autumn and Spring. It's a bit puzzling. Solar activity does not depend on Earth's seasons. Why should geomagnetic storms?

"We've known about this seasonal effect for more than 100 years," says Dennis Gallagher, a space physicist at the NASA Marshall Space Flight Center. "Some aspects of it are understood, but not all."

Geomagnetic storms erupt when solar wind gusts or coronal mass ejections (CMEs) hit Earth's magnetosphere -- a magnetic bubble around our planet that protects us from the relentless solar wind. The magnetosphere is filled with electrons and protons. Normally these particles are [trapped](#) by lines of force (so-called "magnetic bottles") that prevent them from escaping to space or descending to the planet below.

## SSTV NET

The first SSTV Net went very well. We had several checkins from members and non-members;

KC8FPU	John	
KA8MID	Bill	
KI8HU	Gary	
WB8NNJ	Jim	
W0MNE	Mike	Circleville
KC8WR	Mike	Circleville
AA8YY	Carl	Columbus
N8PAQ	Bill	Columbus

We also had a few who checkin's who just receive pictures and made comments and rag-chewed.

The net started at 9:00pm with Jim WB8NNJ by stating the rules for the net. There were some technical problems that were solve, making for a very interesting night.

There were pictures that really tested your observational skills, cartoons, family photo's and current events. A good time was had by all. I'm looking forward to next months session December 3.

Hope to See and Hear you then!

John KC8FPU

# Scioto Valley Amateur Radio Club Webpage

This page is under construction

## W8BAP Chillicothe, Ohio

Local Repeaters  
146.850 PL 74.4  
146.925  
444.425

**You are visitor number since 10/30/2001**

E-mail [W8BAP](mailto:W8BAP)

[Links](#) [Slowscan](#) [TV Net](#) [Newsletters](#)

WebDesigns by Mid

**The SVARC Web Page is NOW Available  
Thanks to the continuing efforts of  
KA8MID**

**There is more to add  
so check reguraly for updates**

**Items include SSTV Pictures  
Links to Special Interests and Suppliers  
The NewsLetter to be added soon  
and  
SVARC Information**

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"When a CME hits the magnetosphere," explains Tony Lui, "the impact knocks loose some of those trapped particles. They rain down on Earth's atmosphere and cause the air to glow where they hit." Lui is a space physicist at the Johns Hopkins University Applied Physics Lab.

"Precipitating particles mostly follow magnetic field lines that lead to Earth's poles," he added. "The auroral ovals (circular regions of auroral light around the magnetic poles) expand during magnetic storms." Sometimes they grow so large that people at middle latitudes -- like North Carolinians -- can see the light.

Such widespread storms are usually nurtured by what scientists call " $B_z$ " (pronounced "Bee sub Zee") -- in other words, the component of the interplanetary magnetic field (IMF) that lies along Earth's magnetic axis. At the magnetopause, the part of our planet's magnetosphere that fends off the solar wind, Earth's magnetic field points north. If the IMF tilts south (*i.e.*,  $B_z$  becomes large and negative) it can partially cancel Earth's magnetic field at the point of contact.

"At such times the two fields (Earth's and the IMF) link up," says Christopher Russell, a Professor of Geophysics and Space Physics at UCLA. "You can then follow a magnetic field line from Earth directly into the solar wind." South-pointing  $B_z$ 's open a door through which energy from the solar wind can reach Earth's inner magnetosphere. In the early 1970's Russell and colleague R. L. McPherron recognized a connection between  $B_z$  and Earth's changing seasons: The average size of  $B_z$  is greatest each year in early Spring and Autumn.

It's a result of geometry, explains Russell. The interplanetary magnetic field comes from the Sun; it's carried outward from our star by the solar wind. Because the Sun rotates (once every 27 days) the IMF has a spiral shape -- named the "Parker spiral" after the scientist who first described it. Earth's magnetic dipole axis is most closely aligned with the Parker spiral in April and October. As a result, southward (and northward) excursions of  $B_z$  are greatest then.

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"We've learned in the last 28 years that the north-south component of the IMF controls the energy flow of the solar wind into our magnetosphere," says Russell. Northward fields have little effect, he added, but southward  $B_z$ 's can set the stage for substantial geomagnetic activity.

This week was a good example. The widespread auroral storm of Oct. 21st and 22nd was preceded by a 24-hour period of mostly south-pointing  $B_z$ . The IMF continued to tilt south after a coronal mass ejection struck Earth's magnetosphere on the 21st; and the [ensuing display](#) of Northern Lights was one of the most memorable of the current solar cycle.

The influence of  $B_z$  on geomagnetic activity is undeniable, but researchers agree it's not the *only* influence. For instance: The Sun's rotation axis is tilted 7 degrees with respect to the plane of Earth's orbit. Because the solar wind blows more rapidly from the Sun's poles than from its equator, the average speed of particles buffeting Earth's magnetosphere waxes and wanes every six months. The solar wind speed is greatest -- by about 50 km/s, on average -- around Sept. 5th and March 5th when Earth lies at its highest heliographic latitude.

In a recent *Geophysical Research Letter* (28, 2353-2356, June 15) Lyatsky *et al* argue that neither  $B_z$  nor the solar wind can fully explain the seasonal behavior of geomagnetic storms. According to their study, those factors together contribute only about one-third of the observed semiannual variation.

What remains is a puzzle that space scientists are still trying to solve. "This is an area of active research," notes Lui. "We don't have all the answers yet, because it's a complicated problem."

But not too complicated to enjoy: dark nights, bright stars, an occasional meteor -- and the promise of Northern Lights. Perhaps scientists haven't figured out why auroras prefer autumn, but it's easy to understand why sky watchers do....