

# Hamgram

Newsletter of the Winona Amateur Radio Club, Inc.  
December 2003

## Meeting Notice

The December meeting of the Winona Amateur Radio Club, Inc. is the annual meeting at which the officers of the club for next year will be elected. Nominees for those offices are as follows:

President	KAØMLO	Tom Mauszycki
Vice President	KØZYV	Paul Schumacher
Secretary		
Treasurer	NØVV	Richard Kolter
Member At large		Scott Hayes

## Winona Amateur Radio Club Merry Christmas and Happy New Years

My current term as President of the Winona Amateur Radio Club is drawing to a close; and, I am very proud to be a member of a very wonderful group of radio amateurs.

The past year has been very enjoyable with the introduction of events and topics which have been suited for the general membership. And, I am certain that this informal and instructive format will continue in the future.

Holiday greetings to all and thank you to everyone who has contributed to or who has participated in the events and programs of the past year.

This greeting is being extended to all known radio amateurs that are not part of our group; but, who have enjoyed our meetings fellowship or the use of the repeaters of the Winona Amateur Radio Club, the same warm holiday greetings. You are cordially invited to attend our December meeting and the Holiday Party which will be held on January 15<sup>th</sup>, 2004.

Sincerely Yours,

Thomas E. Mauszycki  
Winona Amateur Radio Club

## Global Positioning System

Course 101

Presenter: KEØXI Walt - President of Kelly Enterprises

A location is given by the geographical coordinates of latitude and longitude. Hazel Park, Minnesota has an unique position of being approximately 1/2 of the distance between the equator and the north pole; plus, approximately 1/4 of the distance around the globe as measured from Greenwich, England.

Twenty four satellites form the reference grid for the measurements with five to eight satellites in position for receiving signals from the land GPS unit. The satellite that is in the most epically positioned determines the altitude and the satellites near the perimeter determine the location of the land GPS unit to within 11 feet using the latest models.

The mathematical formula is  $D (\text{distance}) = V (\text{velocity}) \times T (\text{time})$

The velocity of light in a vacuum is 186,000 miles per second; and,

Light travels 1 foot in a time period of 1/1,000,000,000 of a second.

The mathematical formula is the critical component of the GPS unit as the greater the accuracy, the more precise are the measurements and the cost per unit.

Auxiliary functions of the GPS unit include a compass, odometer, sunrise and sunset. (However, you can still extend your arm fully and hold four fingers at arm length and position the fingers between the horizon and the sun and it will determine sunset. Each finger represents 15 minutes.)

Newer functions of the GPS unit include the pathways of the interstate, state and county highway system, exits along the interstate exits, the type of enterprises and facilities available at each exit; and, the proximity of the facilities.

	Accuracy	Detail	Cost
Model - 1995	Mapping	50' to 1000'	\$300.00
Model - 2000	Mapping	50' to 120'	\$450.00
Model - 2002	Mapping, Direction	11' to 120'	\$650.00
Model - 2003	Mapping, Direction Velocity	11' to 20'	\$590.00

Download CDs for specific functions and locations

GPS Coordinates for Winona County:

Northwest corner of Winona County has the designated primary coordinates of 10,000' (E-W) and 10,000' (N-S). As one travels in an easterly or a southerly direction your will add 1,000 to the respective coordinate of each additional mile traveled.

My address will change from 1671 Valley View Drive to 22271 Valley View Drive.

This is interpolated as meaning that if Walt would run in an east - west direction along the northern boundary of Winona County and I would hold onto a surveyor chain connecting Walt and myself, it would be 12.271 miles in length (22271 minus 10000) and I would eventually come across a north - south road named Valley View Drive. And, there is my house.

Remember, always subtract 10,000 from the address as the beginning coordinates are 10,000, 10000; not 0' 0'.

Plus, all Drives in Winona County are north - south Drives (roadways), and all Lanes in Winona County are east - west Lanes (roadways).

My neighbor's home is on a corner and it faces an east - west Lane more specially his address is 33358 Wildlife Lane. This is interpolated as meaning that if Walt would run in a north - south direction along the western boundary of Winona County and I would hold onto a surveyor chain connecting Walt and myself; it would 22.358 miles in length (33358 minus 10000) and I would eventually come across east - west Lane named Wildlife Lane. And, there is my neighbor's home with his truck in front of it. I could not miss it.

In summary, some peculiarities exist pertaining to the numbering system of Stockton, Minnesota which does not follow the coordinates of the new Winona County rural numbering system as well as to what local coordinates are measured to mean. Is it your driveway, is it the footprint of your home, etc.? And, how will it be used in future technology?

And finally; a tremendous standing ovation was given to the presenter.

Thank you for the excellent presentation.

Program Duration: 8:00 P.M. to 8:04 P.M.

**General Business Meeting**

8:05 P.M. Winona County Courthouse Annex

November 20th, 2003

Members Present:	KC9CRM Jake	N9MFH Steve
	W9HWQ	KAØMLO Tom
	KCØJZE Arnie	KBØYJU
	KCØJYZ	
	KCØMBU	KCØMBN Scott
	KCØMBY Ryan	KCØMBT Richard
	KØDHI George	KEØXI Walt
	KFØQ Matt	NØNUO Dolores
	NØJP Ken	WAØX Jerry
	NØVV Richard	NØPDD Bob
	WBØNIU Eric	WØMK

Guests Present: Jennifer Tagliapetra, daughter of KBØYJU and KCØCTH  
Megan, sister of KC9CRM Jake

**Minutes of the October Meeting of the Winona Amateur Radio Club**

The secretary was absent; and, the minutes of the October meeting were approved as published in the November issue of the *Hamgram* with the addition of NØJP as being present.

Motion of approval made by W9HWQ Duane. Seconded by \_\_\_

**Treasurer's Report:**

The treasurer was not present and no report was submitted. The treasurer did appear during the very last five minutes of the meeting.

**Old Business:**

A. CPR: Seven members of the Winona Amateur Radio Club participated in the CPR course on November 19th and 20th.

B. Christmas Party: The selection of the site for the Christmas Party was finalized by the members of this committee (KAØMLO - Tom, NØJP - Ken and KCØJZE - Arnie) with The Winona Steak House as the location and the site of this festive occasion which will be held on Thursday, January 15th, 2004.

A discussion ensued with our Committee Chairman - NOJP projecting an open discussion as to whether or not Christmas gift(s) will be exchanged. A final decision will be made at the next meeting with the suggestion of gifts being exchanged with a monetary value of approximately five dollars.

C. QSL Cards: Matt Burt described the progress with the design and development of QSL Cards commemorating the activities of our

Winona Amateur Radio Club Station - WØNE. The December meeting will finalize the design process with the input of club members during the next month via e-mail or formal suggestions.

D. ARRL Affiliation of the Winona Amateur Radio Club: This matter was brought to my attention at the last meeting of the Winona Amateur Radio Club and the necessary forms were requested and received. They were forwarded to our treasurer - NØVV Dick - for completion.

The status of the reports are not known as the treasurer was not present and no report was submitted. The treasurer did appear during the very last five minutes of the meeting.

E. Nominations Committee: Delegates of the caucus have met in body at undisclosed locations in Winona County during the past month, presumably at the Burger King Auditorium, with representation of one delegate from Goodview (NØJP) and two delegates from Winona (KEØXI and WAØX) with preliminary candidates supporting the platform of the Winona Amateur Radio Club. The preliminary candidates are:

- President KAØMLO Tom
- Vice President KØZYV Paul
- Secretary
- Treasurer NØVV Richard

Background checks are currently being undertaken with the final slate of candidates to be presented for nomination at the December, 2003 general meeting of the Winona Amateur Radio Club.

It appears as though party politics are not seeking conservative or liberal candidates; thus, the governing of this body appears to be similar to that of the calendar year 2003.

**New Business:**

F. Jerry Brandish (WAØX) presented a short discussion pertaining to the status of the materials that he donated to the WARC and the great lapse in time before the material was return. An ensuing discussion resulted with the following motion made by KCØJZE Arnie:

“All forms of equipment and reference materials owned by the WARC can only be loaned to members of the WARC with the sole responsibility of protecting and returning the property within the agreed upon and designated time period to be the sole responsibility of each member of the WARC”

Motion was seconded by WAØX Jerry and carried.

G. Midwinter Madness Hobby Electronics Show

Jerry Brandish (WAØX) informed the members of the WARC that the 2004 Midwinter Madness Hobby Electronics Show will be held at a new location Buffalo, Minnesota, not Minneapolis/St. Paul, Minnesota of Saturday, March 27, 2004

H. Gadget Doctor (KEØXI Walt) presented his shopping cart of items which have been added since our last meeting.

Today, the Gadget Doctor described two selections from his huge shopping list as he travels throughout Minnesota and Wisconsin:

1) spoke of the unique and extremely affordable battery charger available from Sam’s Club as being able to recharge the Nickel Hydride 2000 mA batteries as well as several other types of rechargeable batteries.

2) the non glare portable lamp which is battery power and produces a light sufficient for the needs of any amateur radio operator as well as the photographer. The Gadget Doctor suggested that it was an excellent source of bounce light, fill light for your miniature photographic scenes as well as an aid in night time photography.

I. Jennifer Tagliapietra, daughter of KBØYJU and KCØCTH Presented her work of Art which was awarded the coveted first place for Entries by Six Year Olds even though I was informed that she is now seven years old. The work of art was commissioned and undertaken during her sixth year and it was sponsored by the Early Childhood Family Education/Lincoln School. Congratulations.

J. No further discussion at this time.

Adjournment: Motion made by KBØYJU Lance. Seconded by KFØQ Matt

8:45 P.M. Acting Secretary: Thomas E. Mauszycki

**Treasurer’s Report**

Bank balance as of 11-30-2003	\$ 1,259.97
Petty cash:	35.76
Undeposited funds:	243.17
<u>Outstanding checks:</u>	<u>35.00</u>
Balance:	\$ 1,503.90

# **W.A.R.C. 2004 HOLIDAY PARTY**

Please join us on Thursday, January 15, 2004 at  
The Winona steakhouse  
6:00 p.m. for the social hour  
6:30 p.m. for dinner

The meal choices will be:

### **All Dinner Buffet**

\$ 7.49 per person for adults (including seniors)  
\$ 2.99 per person for children (ages 4-12)  
15% gratuity

### **Banquet Menu**

\$ 8.49 per adult  
\$ 3.49 per child

Options include Petite Sirloin, Cod Dinner, and Grilled Chicken Breast.

Meals include potato choice and a trip to the salad bar.  
15% gratuity

**All dinner beverages excluding alcohol will be complimentary.**

There will be a short program with more details in the January issue of Hamgram

New this year will be an optional gift exchange. If you want to participate, bring a gift of approximately \$5.00 value marked for a man or a woman.

As in the past we will accept donations for prizes. We will also be purchasing additional prizes with money provided by the Winona Amateur Radio Club, Inc.

We will not be collecting money this year for the party.  
The restaurant is taking care of passing out the individual bills.

We should have a count of those attending by Monday January 12, 2004. We urge you to contact Delores and let her know if you will be attending.

We wish everyone happy holidays! We hope to see you all there!

---

## **January Deadline for *Hamgram***

The deadline for the submission of articles to be published in the January 2004 issue of *Hamgram* is Thursday night, January 08, 2004. This will allow the January issue to be published prior to the Holiday Party, which is scheduled for Thursday, January 15, 2004.