

## 2st Q 2008

### Schedule

Fri. 4/4, 4/25

5/16, 6/6, 6/27

St. James Church 7:30

New members 6:30

### Board Meeting

Wed. 4/2, 4/23,

5/14, 6/4, 6/25

7:30 pm

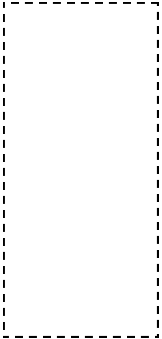
Pegasus

## Officers

President: George Fox  
Vice Pres: Ron Wojcik  
Secretary: Gail Scaglione  
Treasurer: Ray Barren

## Board

Chuck Schummer Bob Rodgers  
Bob Waldraff Orv Chatwood



The Flying Knights  
c/o 5761 Diana Lane  
Lake View, NY 14085



# The Flying Knights of Hamburg, NY

Academy of Model Aeronautics - A Chartered Radio Control Flying Club

[www.theflyingknights.com](http://www.theflyingknights.com)





# THE KNIGHT FLYER



Apr – May—Jun  
Editor

2008  
Jim Devlin

## Mall Show 2008

**M**all shows are an excellent way to mix with the public. People all have hobbies of one kind or another.

There is photography, gardening, automobile re-building, painting, star gazing and hundreds of other activities too numerous to mention.

People know that we build models of a variety of airplanes, but they are surprised to see the size of some of the models.

They are surprised as well to find out that the models actually fly.

In spite of the sight of the beautiful models on display, often, in our interaction with the public, things that come up, are usually not flattering.

People may have heard talk about noise or perhaps of the danger of an out of control plane, particularly when some accident or activity appears in the newspaper.

The mall show provides a venue where we can speak with visitors and especially with those who have an interest in flying .

It is an excellent way to polish our image in the community.

This years show was a spectacular success, for it did all of these things. The array of planes was outstanding.

Interest from the public was high. Our simulator got a real work out from young people who stopped by with their parents.

Many stopped to watch the videos that played through out the day.

The crowds were down on Saturday due to the snowstorm that dumped a foot or more of snow, but it seemed that the activity on Sunday more than made up for it.

The penny gliders were, as always, a hit with the younger children.

Various club members patiently cut gliders out and helped the kids to assemble them. They watched with joy as the kids flew them about the mall.



Visitors take in the show

Perhaps someday, one of the kids will enter the field of aviation and possibly it was the interest shown here, that sparked a career.

The mall show is always a satisfying venture, not only for the opportunity to speak with people about our activities, but to display the results of long hours of work spent building and finishing a model that gives us a feeling of pride.

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## The Knight Flyer

### At the Cutting Edge

At our meeting on the 22nd of February, a surprise presentation revealed many secrets of the new 2.4 GHz radios.

What do you make of a radio that transmits all over the band, hopping around like a chicken on a June bug.

Or the stubby little antennae that sprouts from the top of the transmitter.

Well, Using a well developed Power Point program to accompany his talk, Dave Borkowski made it all seem easy.

Dave is a member of the R/C Aircrafters and an engineer at Motorola.

The new radios come with a matched transmitter and receiver that uses a special code. No frequency pins are needed.

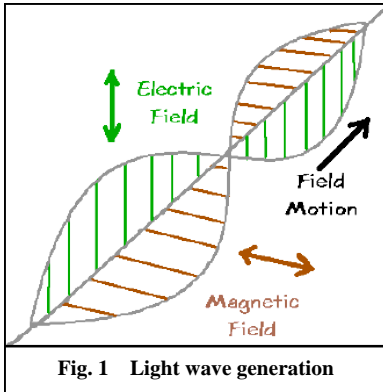


Fig. 1 Light wave generation

One factor that he mentioned was that of polarization. This has to do with the orientation of the radio wave as it moves through space.

Radio waves, like light waves, consist of two crossed fields, a vertical electric field and a horizontal magnetic field.

A changing electric field creates a magnetic field and conversely a changing magnetic field produces an electric field as shown in Fig. 1.

Cute.

Each field creates the other and together, they march through space at the speed of light.

However, orientation is determined by the transmitting antenna.

Care must be taken to ensure that a maximum signal will always be received.

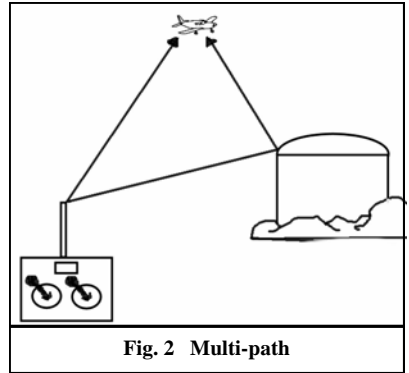


Fig. 2 Multi-path

Today, spread spectrum techniques are used in cell phones and wireless systems.

In such a system, the signal is spread over a wide band making it difficult to affect the actual information. This makes it less subject to interference.

A number of transmitters can all operate on the same band at the same time.

Because the frequency is spread out, it also eliminates another nemesis of narrow band signals, multipath.

Continued on P-7

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## Fly-in Scheduled

Hamburg Airpark is going to host another Fly-in Breakfast. This event will take place this year on Saturday, May 31st.

It will run from 8 am till noon. The Flying Knights have been asked to take part in a static display.

The pancake breakfast will be put on by the Civil Air Patrol.

There will also be airplane rides in a variety of aircraft.

Member Mark Chamberlain will be providing rides in his Piper Cherokee.

Bring your plane for display.



Mark, Sarah and Cherokee

Everyone who attended this event last year, had a great time.

Now that flying season is arriving, all members are reminded to respect the pattern profiles on the fields at which we fly.

Patterns are important and have been set up to minimize problems with our neighbors.

Always remember, "Safety First". Never fly where people may enter the flight path.

## Mall Show contest results

During the mall show each year, our club runs two competitions. One is a popularity contest where Mall patrons choose the airplane that they like best.

Each plane is identified with a number and the selection is deposited into a bucket. The plane with the most tickets is declared the winner.



1st, Len Czaplicki:  
SE-5 WW1 biplane



2nd, Ron Graham :  
P-51 WW2 fighter plane



3rd, Bob Rodgers:  
B-25 WW2 bomber



Penny Plane prizes

The second drawing is for the kids who participated in the penny glider event.

Each child puts a ticket into the bucket.

There were three winners, all from our local area.

**Bailey Schrimmel, Connor Eisenmann** and a girl named **Katie**, who left her last name off the ticket.

Their prizes were the biplanes crafted by Hugh Spears.

## Chinese Auction

Once again, our Classic Chinese auction went off without a hitch.

This year we applied the "shrinking candy bar" effect to the number of tickets that could be purchased for a buck.

In other words "less tickets for the same money".

But, we raised the "level" a notch by making each selection more astute.

With fewer tickets, one had to carefully evaluate his / her purchase.

With so many superb choices, it became quite a challenge to select where to place one's tickets.

One could see the mounting excitement as the auction got underway.

Don Moffit organized the event calling out the lucky winners.



Part of a vast array of prizes

Sara Chamberlain carefully pulled the winning ticket from each item's container.

The Chinese auction is held every year in February. The proceeds of the auction are used to make improvements to the NC Field.

## More Indoor Fly-ins in April

On the last three Thursdays of April, the Knights have been invited to take part in a Fly-in at the ECC Gym.

Bring your helicopters and Park Flyers and get set for some really fun flying.

The dates are April 10th, 17th, and 24th, and the times are 7:30 to 9:30 PM.

## First Picnic Fun-Fly

June 8th.

## NC Flying field

12 noon to dusk.

Dinner at 4:00 pm, (dish to pass)

Club supplies hot dogs, pop, condiments, plates and silverware.

**Don't miss it!**

## Ultimate Biplanes take Shape

The Bill's Building Project has been a popular venue for members who are seeking a new aircraft for the upcoming season.

Quite a few of the Knight's took part in the building of these fine kits.

Like the Cherokee project of the previous winter, an opportunity is provided for new and old members to get together for a common goal.

In particular, those who are new to the hobby can find lots of help and advice in participating in an actual building project.

This year, the plane of choice was the Ultimate Biplane.

It may be a little advanced for new



Bob Waldraf constructs wing

flyers, but building is building and the techniques are the same whether one builds a sleek Top Gun or a gentle trainer.

The rest of us are looking forward to seeing these new aircraft in the air when flying season arrives.

## Nike Field Update

During this coming year, the flying clubs will be able to use the current Nike Field, with the same restrictions that were in place last year.

Those restrictions include the ban on flying during evening hours (after 5 pm Monday through Friday from May through the end of June), and during weekends when soccer tournaments are being played).

This translates into flying from 10 am till 5pm in the afternoon, Monday through Friday and all day on Saturday and Sunday not involved in a formal Soccer event.

Please be aware, that teams occasionally practice during these flying hours, so always use caution

whenever people are using the soccer fields even though no games are in progress.

There will be at least one weekend Soccer event, during the summer, most likely in June. All members will be advised via email / meeting card, as to when this event is scheduled. cards.

Progress is being made in locating a future flying site within the town of Hamburg. There has been no official information regarding location or time frame. Efforts are being undertaken to make this a reality.

All members are requested to respect the restricted hours at the Nike Base and to maintain good relations with all concerned.

### Continued from P-2 ,Cutting Edge

Multipath, shown in Fig 2, is due to reflection of the signal by some object or condition (even a wet runway), that causes the reflected signal to reach the receiver at a slightly different time.

The two signals beat with each

other, fading in and out, with a subsequent loss of control.

All these factors make the new radios very robust greatly reducing any interference.

Dave put together an excellent presentation and gave us a lot to think about regarding these clever new radios

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