

What a Day!

Open House

you missed this year's Open House you've missed a show. With outstanding weather pilots took to the sky as the large crowd cheered them on. Aircraft of all types were represented with the giants earning the most applause.

Open House is geared to public awareness of our sport and the public came out in force. All the hard work and promotion paid off. This event could not of happened if it weren't for the small army of volunteers whom gave their time and dedication. There are too many to mention but we thank them all. Special thanks go out to Nan Brinson and Ronnie Garris for coordinating the event.

> Go to www.ccrcm.com For more!





I'm telling you I had it but the radio quit working!



Do I look like someone who cares?!





Did you see it? I thought I flew it that way!





They're at it again!

Mike Martin and his merry band of Gym pilots known as "The Foul Line Flyers" are back with another season of indoor flying! The action starts next Wednesday June 14th. at the Lewis Center in Greensboro.

Flying time starts at 7:00 pm. To 10:00 pm. If you haven't been out to fly you're missing something special. The folks there are great and helpful.

From UMX B-17's to big drones pilots bring it all. Stop in and as always it's FREE!

> **Lewis center** 3110 Forest Lawn Dr. Greensboro, NC 27455 (336) 373-3330

Contact Mike for more information 336.616.4766 **Click here for Directions**



Visit the new website! www.ccrcm.com



72 MHz Radios

There are two general kinds of radios: 2.4 GHz modern radios, and good reasons for this shift, but it's the older 72 MHz radios. As a matter of fact, there are more kinds than that. 2.4 GHz equipment is subdivided into categories based on the specific type of coded signal used by the various manufacturers. These radios have the capability to switch from one channel to another within their designated frequency, thus avoiding interference when more than one person is flying. The legally broadcast at 1 watt, which older style single channel radios operate on 72 MHz for aircraft only, You can still control your plane as 75 MHz for cars and boats only, and far as you can see it. The long There are also 50 and 53 MHz, reserved for those holding an each of these single channel an AM, FM, or PCM signal. Here's plane's location or position. The

in use for RC in North America.

http://www.modelaircraft.org/ events/frequencies.aspx

hat are the differences, and why would you choose one over the other? This is the kind of question I duplicates will arrive at the field at always ask, because I've noticed

that in a lot of cases the status quo or conventional wisdom do not necessarily reflect the best choice. We've all noticed that the majority of the RC community has switched over to 2.4 GHz, and there are some not a slam-dunk case one way or the other.

First, let's go through the pros and cons of the old technology.

Advantages

On the positive side, these frequencies are licensed by the government for use in controlling RC vehicles. The transmitters can provides a very respectable range. 27 MHz for any kind of RC vehicle. waves of the 72 MHz band can bend around objects, so if you fly a plane behind a barn, a car, a tree, or even a amateur radio operator's license. In low hill, you are still in control. The receiver has a long antenna, which

frequencies, the radios can use eithercan pick up a signal no matter the a good chart of all of the frequencies antenna can't be shadowed by the

> engine, and it is still effective in the vicinity of carbon fiber and metal objects. 72 MHz also has some disadvantages. That long, effective antenna has to be routed through the fuselage. Only one radio at a time can be operated per channel. There are 50 channels, but chances are that the same time. Even if you practice

good frequency control, some

doofus can show up later, turn his radio on, and shoot your plane down. AM and FM signals are subject to jamming interference from outside sources, sometimes even from interference patterns created by combinations of other frequencies. And of course the most broadcast at only one tenth of the common problem experienced when power of a transmitter on the using 72 MHz radios is damage to the receiver crystal caused by would just do an engine-on test, and lose sight of it, but the range a new crystal. But it's hard to get new crystals nowadays. 72 GHz radios were offered to the public as the answer to the shortcomings of 72 MHz radios. No ovens. When the microwave was frequency control is required because your radio will simply switch itself to another channel to avoid interference from identical radios. If unmanageable interference is encountered, the controls will lock in "safe mode". And of course, as we've all heard many, many times, there is no long antenna to fool with. That pretty much sums up the advantages.

Disadvantages

here are a few major disadvantages. The short wavelength causes these radios to operate only in line of sight. In other you, the prospective radio user? words, if you fly behind an object and you can't see your plane, you're GHz, or should you use an old 72 not controlling it. If your antenna gets shadowed by the engine, electric motor, battery pack or other personal situation. A lot of flying metal object in the plane itself, it will lose signal. This risk is mitigated by using a receiver with more than one antenna, but that seems to negate the advantage of the flags, frequency boards with tiny antenna if you ask me. When the receiver loses signal it goes into the aforementioned "safe mode" which means that it neutralizes the

controls and you can't do anything members to leave their 72 MHz gear until it reboots. If your plane was in at home.

a funny position, it will just keep going in that direction until it hits that there is no government license for RC use of the 2.4 GHz band, which means that these radios can

licensed bands. You probably don't want to fly your plane to the extent crashing. Back in the old days you of your control radius because you'll People think it would be fun if you got a glitch you would install technically is shorter than what you can get from 72 MHz.

> The reason the new radios operate on 2.4 GHz is because of microwave first offered for sale, it was set up to operate on this frequency to avoid interference with other bands. Ovens don't put out tons of radio noise, but there is always some, so these frequencies have been left open as a Wild West no-man's land. 60 years later, everybody who wants to sell a radio control airplane, garage door opener, blue tooth, or other gadget, goes to the same unlicensed frequency. Will it reach a saturation point and cause an intolerable level of safe mode lockups? Time will tell.

So, what does all of this mean to Should you follow the herd to 2.4 MHz radio like some kind of hipster? That all depends on your clubs allow only 2.4 GHz nowadays, to eliminate any possibility of interference. Clubs used to have transmitter impounds, frequency clothespins, or other such frequency control schemes to keep people from shooting each other down. It sure seems easier to just tell all of the

Back in the old days different something. Another disadvantage is flying sites sometimes had a channel or two that were known to be glitchy, and everybody avoided those channels at those specific sites. Just make sure nobody is on your channel at the same time.

to be a bird because you could fly.

But they



forget the negative side, which is the preening.

LF ad first you don't zuggaag fly fly and fly again!





We all wish Mark good luck with his Long EZ It's been a challenge!







John John enjoying the day!



LAST ONE OUT LOCKS THE GATE!

www.ccrcm.com



Good News!

• kay you're just starting out with your trainer. As you fly you notice all these cool war-birds. And you think,

"I can't wait to fly one!"

Now about a P-51 trainer that is designed for the beginner pilot? Well **Hanger 9** has answered your prayers!



Key Features Exclusive SAFE technology delivers flight envelope protection Panic Recovery mode switch quickly returns the model to level flight The club-level beginner airplane that looks cool Easyto-use Evolution 8cc gas/petrol engine provides reliable, lowcost operation Ready to bind with your transmitter with Spektrum DSM2/DSMX technology For more information CLICK HERE





At any moment, somewhere between 500,000 and a million people are flying in airplanes.

In 2001, Triumph International launched the Frequent Flyer's Bra as the metal in conventional brassieres had been setting off airport detectors.

The word "air-port" dates back to the 1780s when it meant a ventilation porthole in a ship.

The first scheduled commercial airline flight was on January 1, 1914 across Florida Bay from St. Petersburg to Tampa.

GIANTS

Size does matter!





