



The Transmitter

Suburban RC Barnstormers - P.O. Box 524, Bloomingdale, IL 60108

AMA CHAPTER 640

IMAA CHAPTER 194

October 2012

<http://www.suburbanrcbarnstormers.com>

Coming in October and November

October 15th, **!! NOTE DATE CHANGE !!** Club Meeting, Bloomingdale Public Library, 7:00pm
October 22nd, Board Meeting, Bloomingdale Public Library, 7:00pm

November 12th, Club Meeting, Bloomingdale Public Library, 7:00pm
November 15th, Dome Fun Fly, White Pines Golf Dome, 11:00pm
November 26th, Board Meeting, Bloomingdale Public Library, 7:00pm

October Entertainment

By Dave West

Did you know that our own John Howe is the District VI Assistant Director of the International Miniature Aircraft Association (IMAA)? Despite the "miniature" in its name, the IMAA is all about big -- it is the AMA Special Interest Group for Giant Scale R/C Models.

At the October meeting John will explain it all: the IMAA, Hell's Barnstormers, HighFlight

Magazine, his favorite flying sites and events, and more.

Whether you are a giant-scale enthusiast or unfamiliar with larger planes, I'm sure John will be happy to answer all your big bird questions.

Rollover Raffle

The Electrify F-20 Tigershark prize has rolled over once again. The matrix is really filling up, so odds are that it will be won at the October meeting. This

may be your last chance at this 85+ MPH electric jet.



Notes of the Suburban RC Barnstormers Membership Meeting

September 10, 2012

ATTENDANCE

There were 35 members present along with guest Steve Wolski.

OFFICER REPORTS

President: Mike Maciejewski presided over the meeting.

Mike discussed the upcoming election this year. Nominations would start being taken in October with the election being held in November. If you are interest participating in the club from the other side of the table, please let you desire be know. And don't forget, club officers get free membership during their term.

Mike confirmed that the website to get plans from the old RCM magazine was <http://www.RCMPlans.com>

Vice President: Dave West said the door prizes for the evening included some TiteBond Polyethylene glue (like Gorilla glue) and some thread lock. The F-20 Tigershark returned for another try at a rollover winner.

Treasurer: Bob Elsner reminded the members that due to a library conflict, the meeting would be pushed back on week to October 15th.

Bob also reminded the Board members that the Board meeting would be starting up again in September.

Secretary: Scott Taylor said his label printer was currently down. There may be some delay in printing nametags until the problem gets resolved.

COMMITTEE REPORTS

Fun Flies – Scott Stampfli extended his thanks to **Dave West** for chairing the last fun fly.

Dave West reported on the last fun fly. There were 19 flyers in the event. This was a learning fun fly. The event was to perform a ½ Reverse Cuban 8 maneuver. Everyone enjoyed the exercise. Thanks go to **John Gazdziak** for donating some 3D foam electric kits and to **Scott Taylor** for making a run to Wendy's.

The final fun fly was still in the planning stage. Some ideas for the event were offered. One idea developed into "The Exploding Egg Drop" that involved filling a plastic egg with flour and bombing

a target by holding the egg in a cup attached to the plane. Should be fun!

Dome Flying – Marty Schrader said he met with owner Mike Monroe to discuss the upcoming season. So far it is looking good. Additional information will be in an soon to be distributed flyer. Marty is also looking for at least one more volunteer to help manage the dome. He currently has two volunteers.

ENTERTAINMENT

Entertainment for the evening was the RC version of "How I Spent My Summer Vacation". Members discussed their experience at RC related event.

Mike Maciejewski reviewed the "Warbirds and Classics" event held in Fond Du Lac Wisconsin. This is a multi day event that starts on Thursday and ends on Sunday. Any kind of warbird or model of a pre-1960 airplane can fly. Among the planes he saw there were a P2 that weighed in at 85 pounds and a B-29 with a 20 foot wingspan and X1 under the wing.

Steve Merrill talked about the Chain 'O Lakes Eagles eFlight event. This is an electric only event that takes place in the first weeks of August. This year there were about 35-40 pilots. They did a bomb drop and ribbon cut. Steve's attempt was deemed most spectacular as he ran into the pole! Great fun! You can find more info on RC Groups.

Scott Stampfli said there were several giant scale events throughout the season. They include Wheeler, Indiana; Streeter, IL; Fond Du Lac, WI (great pig roast); and Champaign, IL (great runway).

Tom Lyons and Marty Schrader went to a fly in at a grass field in Brown County, Indiana. Both took about 15 planes each. They had a great time flying at a field with interest topography. It was on top of a hill and surrounded on three sides by trees. Great event but about a 5 hour drive.

Dave West gave his impression of the Pancake Fly In at Streeter, which is about 100 miles south. It is a fly anything on grass event and you can get breakfast for an additional \$6.

PLANES

Keith Egging brought in a Giant Piper Tri-Pacer. It weights about 20 pounds and is powered by a G38. Great looking plane but very solidly built.



Marty Schrader demonstrated his computer controlled quad-motor flyer. It has the body of a blue ladybug. It is less than \$40 from Hobby King and is called the Wee Little Beetle.

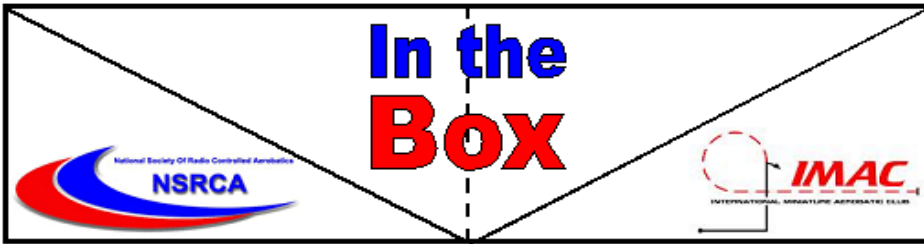


RAFFLES

Dave West was the winner of the Turkey raffle. **Tom Littlejohn** took home the TiteBond glue, and **Nancy Gazdziak** won the thread lock. There was no rollover winner.

Pictures from the September Fun Fly





Pattern Flying - Precision Aerobatics

Taking your passion for flying RC airplanes to the next level!

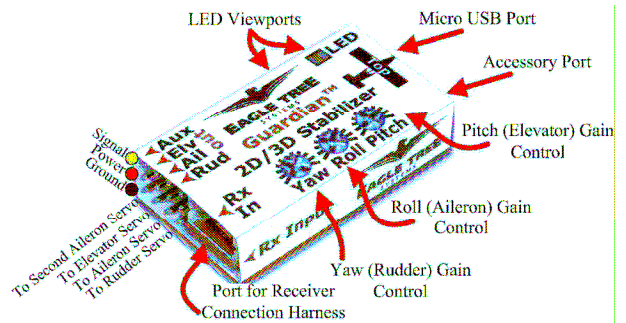
By: Bob Sarley

Technology Marches On - For those that are interested in precision pattern flying for the pure joy of it (as opposed to organized competition) and the personal challenge it spawns as you try to improve your piloting skills, yet another application of high-tech miniaturized electronics has been applied to RC model aircraft.

Reasonably priced, multi-dimensional (2D and 3D) electronic stabilizers are now available for fixed wing RC aircraft that can ease the pilot burden while flying in windy conditions or when trying to perfect an aerobatic maneuver. Similar in operation to the devices now in use by helicopter pilots to help stabilize and control tail rotors and flybarless main rotor swashplates, these little electronic marvels combine piezoelectric (solid state) gyroscopes and inertia measuring systems (accelerometers) with computerized servo controllers to constantly monitor and adjust (if necessary) the attitude of your aerobatic airplane while still instantly responding to your input commands.

The following paragraphs describe the "Guardian" from Eagle Tree Systems. There are others, but this represents a typical full-featured stabilizer that has two main modes of operation: 2D Mode and 3D Mode.

When set in **2D Mode**, the stabilizer provides automatic wing leveling resulting in a much smoother flight for your airplane. In this mode, the stabilizer "remembers" the level flight orientation of the aircraft and returns it to, or keeps it in level flight when needed. Flying in moderate wind with this 2D mode of stabilization can make it seem like you are flying in no wind at all. The tendency for the wind to lift a wingtip, for example, will be immediately compensated for by the stabilizer with a corresponding opposite roll control signal to the aileron servo(s). The stabilizer provides precise "fly by wire" control, in which it interprets your control stick deflections as intended commands and instantly passes the control signal to the appropriate servo or servos. For example, pushing and holding only your aileron control stick to the left will cause your aircraft to bank left at your command while the stabilizer automatically holds the pitch, thus executing a level banked turn with no change in altitude (assuming airspeed and control surface deflection limits make it aerodynamically possible). This mode can be useful for beginners as well as "experts" looking for a reduced workload on take-off and landing. It also can be useful for us aerobatic pilots that may need to recover quickly after losing orientation (It can happen).



In **3D Mode**, the stabilizer works to smooth out turbulence and stall characteristics to bring stability and precision to your maneuvers while leaving the feel of flying the same as without stabilization. This mode is intended for pilots looking for improved stability without compromising on aerobatic performance and feel. Centering any control stick in this mode will engage a heading lock on that axis and the stabilizer will hold your airplane in its current flight orientation (assuming it is aerodynamically possible to do so). In this mode, when the control stick(s) is(are) centered the stabilizer remembers its current pitch, roll and heading (yaw) and works diligently to keep that current orientation locked in. Moving any control stick immediately resets the orientation lock on that axis, allowing for instantaneous transitions from locked maneuvers to dynamic flight. With all control sticks centered, for example, actuation of the rudder control only will reset just the yaw axis, without affecting the lock on the pitch or roll axis. That implies that if you are flying straight and level and yank on the rudder stick, the airplane will make a flat turn in the direction commanded without rolling, dipping or climbing – very interesting.

While in flight, a spare switch on your transmitter (Gear, Flap, etc.) lets you switch between 2D mode, 3D mode, or bypass mode. In bypass mode, the stabilizer passes control commands directly to the intended servos with no stabilization enforcement at all.

As I stated in the beginning of the article, use of this type of device is for personal edification only and is **totally illegal for any sanctioned competition**. It is, however, a very interesting piece of technology that has been applied to our hobby.

Until next month, good flying to all.

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This newsletter is published monthly by the Suburban RC Barnstormers, Inc.

We reserve the right to edit all information forwarded to us. Permission is hereby given to reprint any article that we publish as long as proper credit is given.

Material can be submitted for publication: (1) at a meeting, (2) by mailing to Suburban RC Barnstormers, Inc., P.O. Box 524, Bloomingdale, IL 60108, (3) sending it to the email of the editor, Scott Taylor, at taylorstr@core.com

Articles must be received by the 4th Saturday of the month to be included in the following month's newsletter.

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